| PAGE | SUBJECT |
|---|---|
| 805 | GENERAL INSTRUCTIONS AND INFORMATION |
| 806 | #2 - 6/1 ACSR/AW SPARROW SAG AND TENSION TABLES |
| 807 | 1/0 - 6/1 ACSR/AW RAVEN SAG AND TENSION TABLES |
| 808 | 3/0 - 6/1 ACSR/AW PIGEON SAG AND TENSION TABLES |
| 809 | 4/0 - 6/1 ACSR/AW PENGUIN SAG AND TENSION TABLES |
| 810 | 336.4 - 26/7 ACSR/AW LINNET SAG AND TENSION TABLES |
| 811 | 397.5 - 26/7 ACSR/AW IBIS SAG AND TENSION TABLES |
| 812 | 636 - 24/7 ACSR/AW ROOK SAG AND TENSION TABLES |
| 813 | 1033.5 - 45/7 ACSR/AW ORTOLAN SAG AND TENSION TABLES |
| 814 | #2 5/2 AWAC SAG AND TENSION TABLES |
| 815 | #2 3/4 AWAC SAG AND TENSION TABLES |
| 816 | #6 3-STR BARE COPPER SAG AND TENSION TABLES |
| 817 | #4 3-STR BARE COPPER SAG AND TENSION TABLES |
| 818 | #2 3-STR BARE COPPER SAG AND TENSION TABLES |
| 819 | 1/0 BARE COPPER SAG AND TENSION TABLES |
| 820 | 4/0 BARE COPPER SAG AND TENSION TABLES |
| 821 | 1/0 RTS TRIPLEX SAG AND TENSION TABLES |
| 822 | 3/0 RTS TRIPLEX SAG AND TENSION TABLES |
| 823 | 336.4 RTS TRIPLEX SAG AND TENSION TABLES |
| 824 | REDUCED TENSION SPAN CONSTRUCTION - SINGLE/DOUBLE CROSSARMS |


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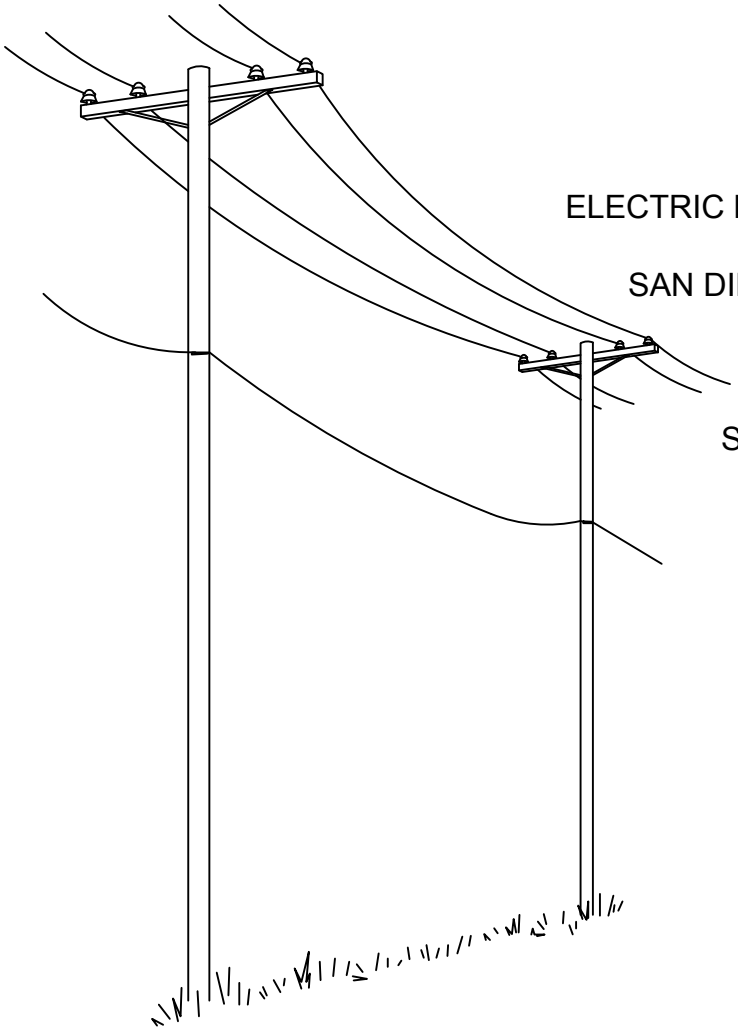
| REV | CHANGE | DR | BY | DSN | APV | DATE | REV | CHANGE | DR | BY | DSN | APV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | EDITORIAL CHANGES | EDM | MRF | JES | KRG | 07/14/2022 | F | | | | | | |
| B | SCOPE UPDATE | - | GW | JS | CZH | 07/01/2018 | E | | | | | | |
| A | ORIGINAL ISSUE | - | GW | JS | MDJ | 10/02/2017 | D | | | | | | |

# OVERHEAD SAG AND TENSION STANDARDS



ELECTRIC DISTRIBUTION SERVICES DEPARTMENT

SAN DIEGO GAS AND ELECTRIC COMPANY

P.O. BOX 1831

SAN DIEGO, CALIFORNIA 92112

Historical Record: 8/17/2022
Internal & External Version

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | SCOPE UPDATE | GW | JS | CZH | 7/1/2018 | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | MDJ | 10/2/2017 | D | | | | | |

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# SUMMARY OF CHANGES

| DATE | STANDARD PAGES | FILE NAME |
|---|---|---|
| 08/17/22 | 801, 824 | OHSAG2022v0817.pdf |
| 07/01/18 | Moved Section 800 out of the Overhead Construction Standards | OHSAG2018v0701.pdf |

TABLE OF CONTENTS

**SCOPE**: THIS STANDARD CONTAINS A DIRECTORY, GENERAL INFORMATION AND INSTRUCTIONS FOR USE OF THE SAG AND TENSION TABLES CONTAINED IN OVERHEAD STANDARDS 806-824.

THIS MANUAL PROVIDES GUIDANCE FOR DESIGNING AND STRINGING THE VARIOUS CONDUCTORS APPROVED FOR INSTALLATION AT SDG&E. THE SAG AND TENSION TABLES HAVE BEEN CALCULATED FOR LIGHT, HEAVY, EXTRA HEAVY LOADING DISTRICTS, AND KNOWN LOCAL WIND CONDITIONS, NORMAL AND REDUCED DESIGN TENSIONS, AND VARIOUS RULING SPAN LENGTHS.

ALL DATA TABLES (f) COMPLY WITH CPUC G.O.95 PUBLICATION RULES AND SDG&E DESIGN PARAMETERS.

A DESCRIPTION OF VARIOUS LOADING DISTRICTS, KNOWN LOCAL WIND CONDITIONS, DETERMINATION AND APPLICATION OF RULING SPAN, AND CONDUCTOR INFORMATION IS ALSO IN THIS MANUAL.

IF A STRINGING SAG/TENSION TABLE WITH DIFFERENT PARAMETERS FROM THOSE CONTAINED IN THIS MANUAL IS NEEDED, CONTACT THE ELECTRIC DISTRIBUTION STANDARDS SECTION, OVERHEAD SYSTEMS GROUP.

JESSE SANDOVAL, SUPERVISOR
ELECTRIC DISTRIBUTION STANDARDS

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | SCOPE UPDATE | GW | JS | CZH | 7/1/2018 | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | MDJ | 10/2/2017 | D | | | | | |

# CONDUCTOR INFORMATION

| CONDUCTOR TYPE | OVERHEAD STANDARD | MAX. HOR. TENSION (LBS) | RULING SPAN (FT) | G.O. 95 LIGHT | G.O. 95 HEAVY | SDG&E EXTRA HEAVY | KNOWN LOCAL WIND 65MPH 85MPH 111MPH |
|---|---|---|---|---|---|---|---|
| INTRODUCTION | 805 | 850 | 100 to 500 | ✓ | | | ✓ |
| #2 – 6/1 ACSR/AW Sparrow | 806 | 1240 | 100 to 500 | ✓ | | | ✓ |
| 1/0 – 6/1 ACSR/AW Raven | 807 | 1850 | 100 to 500 | ✓ | | | ✓ |
| 3/0 – 6/1 ACSR/AW Pigeon | 808 | 1000 to 2400 | 100 to 500 | ✓ | | | ✓ |
| 4/0 – 6/1 ACSR/AW Penguin | 809 | 1000 to 3000 | 100 to 500 | ✓ | | | ✓ |
| 336.4 – 26/7 ACSR/AW Linnet | 810 | 1000 to 3000 | 100 to 500 | ✓ | ✓ | ✓ | ✓ |
| 397.5 – 26/7 ACSR/AW Ibis | 811 | 1000 to 3000 | 100 to 500 | ✓ | ✓ | ✓ | ✓ |
| 636 – 24/7 ACSR/AW Rook | 812 | 1000 to 3000 | 100 to 500 | ✓ | ✓ | ✓ | ✓ |
| 1033.5 – 45/7 ACSR/AW Ortolan | 813 | 1000 to 3000 | 100 to 500 | ✓ | ✓ | ✓ | ✓ |
| #2 5/2 AWAC | 814 | 1200 to 1800 | 100 to 500 | ✓ | ✓ | ✓ | ✓ |
| #2 3/4 AWAC | 815 | 1000 to 3000 | 100 to 500 | | ✓ | ✓ | ✓ |
| #6 3–STRAND BARE COPPER | 816 | 390 | 100 to 300 | ✓ | | | ✓ |
| #4 3–STRAND BARE COPPER | 817 | 550 | 100 to 300 | ✓ | | | ✓ |
| #2 3–STRAND BARE COPPER | 818 | 840 | 100 to 300 | ✓ | | | ✓ |
| 1/0 BARE COPPER | 819 | 1340 | 100 to 500 | ✓ | | | ✓ |
| 4/0 BARE COPPER | 820 | 2424 | 100 to 500 | ✓ | | | ✓ |
| 1/0 RTS TRIPLEX | 821 | 1000 to 2000 | 100 to 500 | ✓ | ✓ | ✓ | ✓ |
| 3/0 RTS TRIPLEX | 822 | 1000 to 2000 | 100 to 500 | ✓ | ✓ | ✓ | ✓ |
| 336.4 RTS TRIPLEX | 823 | 1000 to 2000 | 100 to 500 | ✓ | ✓ | ✓ | ✓ |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | SCOPE UPDATE | GW | JS | CZH | 7/1/2018 | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | MDJ | 10/2/2017 | D | | | | | |

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## SAG & TENSION DATA
## FRACTIONS TO INCHES CONVERSION TABLE

| INCHES | FRACTION EQUIVALENT (FOOT) |
|---|---|
| 1 | 0.08 |
| 2 | 0.17 |
| 3 | 0.25 |
| 4 | 0.33 |
| 5 | 0.42 |
| 6 | 0.50 |
| 7 | 0.58 |
| 8 | 0.67 |
| 9 | 0.75 |
| 10 | 0.83 |
| 11 | 0.92 |
| 12 | 1.00 |

THE INTENT OF THIS TABLE IS TO PROVIDE AN EASY WAY TO CALCULATE THE VALUES IN INCHES WHEN THE DESIGN TABLES ARE TO BE USED IN THE FIELD.

### HOW TO USE THIS TABLE

READ THE VALUE SHOWN IN THE DESIGN TABLE FOR THE APPROPRIATE CONDUCTOR. IF THE VALUE CONTAINS FRACTION OF FEET, COMPARE THAT VALUE TO THE TABLE ABOVE AND READ THE EQUIVALENCE IN INCHES.

IF A FRACTION VALUE IS BETWEEN THOSE IN THIS TABLE, ROUND OFF TO THE NEAREST VALUE.

TABLE OF CONTENTS

CONDUCTOR INFORMATION TABLE

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | SCOPE UPDATE | GW | JS | CZH | 7/1/2018 | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | MDJ | 10/2/2017 | D | | | | | |

**INSTALLATION:**
NONE

**BILL OF MATERIALS:**
NONE

**NOTES:**

**HOW TO USE DESIGN AND SAG TABLES**

THE FOLLOWING DESCRIBES THE USE OF THE DESIGN AND INITIAL / FINAL SAG TABLES TO DETERMINE CONDUCTOR GROUND CLEARANCES, SAG AND GUYING TENSION REQUIREMENTS.

I. **RULING SPAN**

THE SAG AND TENSION DATA PRESENTED IN THIS MANUAL ARE BASED UPON THE ASSUMPTION THAT CONDUCTOR TENSION, AT ANY PARTICULAR TIME, WILL BE THE SAME IN EACH SPAN THROUGHOUT A SERIES OF SPANS OF VARYING LENGTH BETWEEN DEAD-END POLES.

DISTRIBUTION POLES ARE QUITE FLEXIBLE NO MATTER THE MATERIAL (WOOD, STEEL OR FIBERGLASS). THEREFORE, WHEN TEMPERATURE CHANGES OR CHANGES IN LOADING CAUSE DIFFERENT TENSIONS IN SPANS OF DIFFERENT LENGTHS, THE POLES AND CONDUCTOR SUPPORT SYSTEMS ARE FLEXIBLE ENOUGH TO EQUALIZE THESE DIFFERENCES AND THE CONDUCTOR TENSIONS ARE ESSENTIALLY THE SAME IN ALL SPANS.

THUS, IT IS POSSIBLE TO CALCULATE THE LENGTH OF A THEORETICAL SPAN WHICH WILL HAVE THE SAME CHANGES IN CONDUCTOR TENSION DUE TO CHANGES OF TEMPERATURE AND CONDUCTOR LOADING AS WILL BE FOUND IN A SERIES OF SPANS OF VARYING LENGTHS BETWEEN DEAD-ENDS. THIS CALCULATED THEORETICAL SPAN LENGTH IS CALLED THE "RULING SPAN" FOR A SECTION OF LINE BETWEEN DEAD-END POLES.

**DETERMINATION OF THE RULING SPAN CAN BEST BE SHOWN BY EXAMPLE:**

A PRIMARY LINE EXTENSION IS TO BE BUILT IN A LIGHT LOADING DISTRICT USING 336.4 KCMIL ACSR CONDUCTOR. THE SPAN LENGTHS ARE: 140', 170', 365', 160', 303', AND 200', THE TOTAL LENGTH OF THE LINE EXTENSION IS 1338',
THE RULING SPAN CAN BE CALCULATED BY USING THIS FORMULA:

$$RS = \sqrt{\frac{S1^3 + S2^3 + S3^3 + S4^3 + - - - - - + Sn^3}{S1 + S2 + S3 + S4 + - - - - - + Sn}} \qquad RS = \sqrt{\frac{140^3 + 170^3 + 365^3 + 160^3 + 303^3 + 200^3}{140 + 170 + 365 + 160 + 303 + 200}} = 268$$

RULING SPAN OR RS = 268'

A LINE WITH MANY ANGLES AND/OR DEAD-END POINTS MAY HAVE MULTIPLE RULING SPANS (ONE FOR EACH SECTION OF THE LINE BETWEEN DEAD-ENDS),

**NOTE 1:** THE LENGTH OF SPANS WITHIN A RULING SPAN SHOULD BE NO MORE THAN TWICE AND NO LESS THAN HALF THAT OF THE RULING SPAN. FOR EXAMPLE: FOR A 200' RULING SPAN, THE MAXIMUM LENGTH OF ANY SPAN SHOULD BE 400' AND THE MINIMUM LENGTH OF ANY SPAN SHOULD BE 100'. LONG SPANS SHOULD BE ADJACENT TO SPANS OF SIMILAR LENGTHS IF TANGENT STRUCTURES ARE BETWEEN THEM. IF THIS CANNOT BE ACCOMPLISHED, A LONG

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | SCOPE UPDATE | GW | JS | CZH | 7/1/2018 | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | MDJ | 10/2/2017 | D | | | | | |

SPAN SHOULD BE PLACED IN ITS OWN RULING SPAN WITH FULL TENSION DEADENDS AT EACH END.

**NOTE 2:** TO DETERMINE WHICH RULING SPAN TABLE TO USE (i.e. 100', 200', 300' 400' ETC.), SELECT THE TABLE WITH A RULING SPAN CLOSEST TO THE ONE WHICH WAS CALCULATED WITH THE PRECEDING FORMULA. AS YOU CAN SEE, THE SPAN RANGE FOR EACH TABLE IS FROM 50% LESS THAN, TO 25% GREATER THAN THE RULING SPAN. THESE ARE THE PARAMETERS ALLOWED BY THE **NESC**. IF THE CALCULATED RULING SPAN FALLS EXACTLY BETWEEN TWO SAG AND TENSION TABLES (SUCH AS 250'), USE THE SHORTER OF THE TWO TABLES, OR IN THIS CASE, THE 200' RULING SPAN TABLE.

THE TYPE OF WIRE INDICATES THAT THE DESIGN AND INITIAL/FINAL SAG TABLE FOR 336.4 ACSR IN LIGHT LOADING AREA SHALL BE USED. THE RULING SPAN 268' DICTATES THAT THE DESIGN TABLE FOR 300' SHALL BE USED. THE SPAN LENGTH 275' ON THE INITIAL SAG TABLE SHOULD BE USED AND THE AMOUNT OF SAG SHALL BE SELECTED UNDER THE TEMPERATURE NEAREST TO THE TEMPERATURE AT THE TIME OF STRINGING.

**USE OF RULING SPAN DATA**

IT IS RECOMMENDED THAT ONE RULING SPAN BE CALCULATED BETWEEN THE RESPECTIVE STRINGING/PULLING SITES, REFERRED TO AS SETUP SITES. THE CONDUCTORS ARE ALWAYS STRUNG BETWEEN PRE-DEFINED SETUP SITES. THE CONDUCTORS ARE PULLED FROM THE STRINGING END TO THE PULLING END, WHICH MAY REQUIRE PULLING THROUGH MULTIPLE ANGLES AND DEADENDS. THE WIRES ARE THEN SAGGED WITH ONE SET OF SAG CHARTS. USING A RULING SPAN BASED ON THE SPANS BETWEEN THE STRINGING AND PULLING SITES. ERRORS INVOLVED IN USING A RULING SPAN WHICH DOES NOT EXACTLY FIT THE SECTION OF LINE IS NEGLIGIBLE. REFER TO NOTE 1 ABOVE FOR DEALING WITH LONG SPANS.

SUITABLE RULING SPANS WHICH MEET THE NORMAL CONDITIONS EXISTING ON SDG&E LINES HAVE ALREADY BEEN DETERMINED FOR THE SAG AND TENSION DATA GIVEN ON THE DESIGN AND INITIAL/FINAL TABLES. THUS, THE SAGS AND TENSIONS GIVEN CAN BE APPLIED DIRECTLY WITHOUT FURTHER COMPUTATION, PROVIDED THE SPAN LENGTHS ARE WITHIN THE ALLOWABLE SPAN RANGE AS DISCUSSED IN THE EXAMPLE ABOVE.

## II. LOADING DISTRICTS AND WIND CONDITION PARAMETERS

THE LOADING CONDITIONS AND KNOWN LOCAL WIND CONDITIONS USED FOR DESIGNING THE SAG & TENSION TABLES CAN BE FOUND IN ELECTRIC TRANSMISSION STANDARD 12100:

SAG AND TENSION DATA GIVEN IN THE TABLES (f) ARE BASED UPON 100', 200', 300', 400' AND 500' RULING SPANS, CONDUCTOR CHARACTERISTICS, MAXIMUM TENSION, ETC., AS NOTED. SAGS AND TENSIONS HAVE BEEN COMPUTED FOR SEVERAL CONDUCTOR TEMPERATURES AND THESE SHOULD BE APPLIED AS FOLLOWS:



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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | SCOPE UPDATE | GW | JS | CZH | 7/1/2018 | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | MDJ | 10/2/2017 | D | | | | | |

- INITIAL SAG -THE SAG TABLES REPRESENT SAGS TO BE USED ON NEW CONDUCTOR THAT HAS NOT BEEN PRESTRESSED (PRE-TENSIONED) IN ANY MANNER.

- FINAL SAG -THE SAG TABLES REPRESENT SAGS WHICH WILL OCCUR AFTER THE CONDUCTOR HAS BEEN PERMANENTLY ELONGATED FOR A TEN-YEAR PERIOD OF CREEP OR AFTER LOAD.

- MAXIMUM LOADED TENSION FOR GUYING -FOR MAINTAINING PROPER GROUND CLEARANCE, THE MAXIMUM LOADED TENSION FOR GUYING INDICATED ON EACH DESIGN TABLE SHOULD BE USED TO DETERMINE THE REQUIRED STRUCTURES, GUYS, ANCHORS AND OTHER EQUIPMENT.

- UNITS -THE DESIGN TABLES ARE READ IN FEET AND DECIMALS, AND THE INITIAL AND FINAL SAG TABLES ARE READ IN FEET AND INCHES.

- WHERE CONDUCTORS OF ONE CIRCUIT ARE STRUNG UNDERNEATH DIFFERENT TYPE CONDUCTORS OF ANOTHER CIRCUIT, THE SAG CHARACTERISTICS OF THE DIFFERENT CONDUCTORS MAY RESULT IN DIFFERENT SAGS. THIS MUST BE EXAMINED TO BE CERTAIN THAT THE MINIMUM REQUIRED VERTICAL SEPARATION BETWEEN CONDUCTOR LEVELS IS MAINTAINED THROUGHOUT ALL CONDITIONS PER G.O. 95 AND SDG&E.

SPECIAL CALCULATIONS - SAGS AND TENSIONS FOR SPANS LONGER THAN THOSE COVERED SHOULD BE CALCULATED SEPARATELY. CONTACT ELECTRIC DISTRIBUTION STANDARDS SECTION FOR ASSISTANCE.

## III. SAG TABLE SELECTION

IN ORDER TO CHOOSE THE SAG TABLE MOST SUITABLE FOR THE PARTICULAR JOB AT HAND, DETERMINE:

- THE LOADING DISTRICT (LIGHT, HEAVY OR EXTRA HEAVY AND KNOWN LOCAL WIND CONDITIONS) ACCORDING TO THE LINE LOCATION (SEE LOADING DISTRICTS / WIND CONDITIONS),

- THE CONDUCTOR TO BE USED. (TYPE, STRANDING, SIZE, ETC.)

- THE RULING SPAN.

- THE MAXIMUM LOAD TENSION FOR GUYING. NOTE: BEFORE DESIGNING WITH REDUCED TENSIONS (E.G. 1000 LBS. ON 300' AND 400' RULING SPANS), FIRST DETERMINE IF DESIGN PARAMETER IS PRACTICAL AND MEETS THE PIN SPACING REQUIREMENTS.

- IF INITIAL OR FINAL SAG IS REQUIRED.

## IV. SAG SELECTION

- AFTER SELECTING THE PROPER SAG TABLE; USE STRAIGHT LINE INTERPOLATION OF BOTH THE SPAN AND TEMPERATURE TO OBTAIN THE SAG.

- WHERE THE SPAN LENGTHS FALL BETWEEN THE LENGTHS SHOWN ON THE SAG TABLE, INTERPOLATE BETWEEN THE LENGTHS OR USE THE NEXT LARGER LENGTH SHOWN ON THE TABLE.





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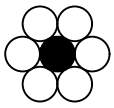
| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | SCOPE UPDATE | GW | JS | CZH | 7/1/2018 | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | MDJ | 10/2/2017 | D | | | | | |

## CONDUCTOR CONFIGURATION INFORMATION

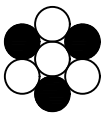
**V. THE FOLLOWING IS A BRIEF DESCRIPTION OF THE THREE OVERHEAD CONDUCTOR TYPES USED IN DEVELOPING THE SAG CHARTS CONTAINED IN THIS DOCUMENT:**

THERE ARE NUMEROUS CONDUCTORS CURRENTLY IN SERVICE ON SDG&E'S SYSTEM BUT ARE NO LONGER BEING INSTALLED ON NEW JOBS. g

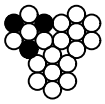
CONTACT EDE FOR ASSISTANCE IF STRINGING CHARTS ARE REQUIRED FOR ANY WIRE NOT CONTAINED IN THIS STANDARD.



A = ACSR/AW: ALUMINUM CONDUCTOR WHICH HAS BEEN STEEL REINFORCED IS ALWAYS STRANDED WITH ONE OR MORE STRANDS OF ALUMINUM CLAD STEEL WIRE IN THE CORE. ACSR/AW SMALLER THAN 636 KCMIL MAY BE INSTALLED TO WITHIN ON MILE OF THE COAST. 1033 AND 636 KCMIL ACSR/AW MAY BE INSTALLED ON THE COAST. LOADING DISTRICT APPLICATION IS DEPENDENT ON CONDUCTOR SIZE.



W = AWAC: ALUMINUM CONDUCTOR WHICH HAS BEEN STEEL REINFORCED IS ALWAYS STRANDED WITH MORE THAN ONE STRAND OF ALUMINUM CLAD STEEL WIRE. AN AWAC CONDUCTOR HAS A HIGHER ULTIMATE TENSILE STRENGTH THAN AN ACSR CONDUCTOR OF EQUIVALENT SIZE AND IS TO BE USED IN HEAVY OR EXTRA HEAVY LOADING DISTRICTS.



RTS TRIPLEX: ALUMINUM REVERSE TWIST SECONDARY (RTS) CABLE WITH AWAC BARE NEUTRAL MESSENGER. NOT TO BE INSTALLED LESS THAN ONE MILE FROM COAST. MAY BE INSTALLED IN ALL LOADING DISTRICTS BUT IS ESPECIALLY USEFUL IN HEAVY OR EXTRA HEAVY LOADING DISTRICTS BECAUSE OF HIGH ULTIMATE TENSILE STRENGTH.





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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | SCOPE UPDATE | GW | JS | CZH | 7/1/2018 | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | MDJ | 10/2/2017 | D | | | | | |

X Indicates Latest Revision | Completely Revised | New Page | Information Removed

## LOADING DISTRICTS / WIND CONDITIONS

**VI. THE FOLLOWING IS A DESCRIPTION OF LOADING DISTRICTS AND KNOWN LOCAL WIND CONDITIONS WHICH AFFECT CONSTRUCTION OF SDG&E OVERHEAD FACILITIES ACCORDING TO THE ALTITUDE AND WIND CONDITIONS OF THE CONSTRUCTION AREA.**

- LIGHT LOADING (b)
  THIS APPLIES TO ALL PARTS OF SAN DIEGO COUNTY AND PORTIONS OF ORANGE COUNTY WHERE THE ELEVATION IS BETWEEN 0-3000 FEET. (c)

- HEAVY LOADING (d)
  THIS APPLIES TO ELEVATIONS BETWEEN 3000-5000 FEET. (c)

- EXTRA HEAVY LOADING (e)
  THIS APPLIES TO ELEVATIONS ABOVE 5000 FEET. (c)

- SDG&E KNOWN LOCAL WIND LOADING (a)
  THIS APPLIES TO AREAS AFFECTED BY WINDS AT OR ABOVE 65 MILES PER HOUR.

**REFERENCE:**

(a) REFER TO SDG&E DRAWING NO 12100; DIRECT BURIED POLE SELECTION & LOADING CRITERIA

(b) REFER TO G.O. 95 RULE 43.2

(c) TO DETERMINE ELEVATIONS FOR THE VARIOUS LOADING DISTRICTS, SEE SAN DIEGO COUNTY TPA-MAPS.

(d) REFER TO G.O. 95 RULE 43.1

(e) SDG&E STANDARD PRACTICE

(f) REFER TO OVERHEAD CONSTRUCTION STANDARDS 806 - 824.

(g) FOR A LIST OF ALL CONDUCTORS ON SDG&E'S SYSTEM AND WHICH ONES ARE FIELD MAINTENANCE ONLY (FMO), REFER TO OVERHEAD CONSTRUCTION STANDARDS 700-718; WIRE TABLES.

TABLE OF CONTENTS

CONDUCTOR INFORMATION TABLE

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | SCOPE UPDATE | GW | JS | CZH | 7/1/2018 | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | MDJ | 10/2/2017 | D | | | | | |

X Indicates Latest Revision | Completely Revised | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

SAG AND TENSION TABLES
GENERAL INSTRUCTIONS AND INFORMATION

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 - 6/1 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION

850 LB TENSION ---------- 806.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

850 LB TENSION ---------- 806.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

850 LB TENSION ---------- 806.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

850 LB TENSION ---------- 806.26


TABLE OF CONTENTS

**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#2 - 6/1 ACSR/AW TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.228 | 0.4 | 705 | 0.34 | 850* |
| 25 | 0 | 0 | 0 | 0.087 | 0.16 | 679 | 0.13 | 837 |
| 30 | 0 | 0 | 0 | 0.087 | 0.17 | 642 | 0.13 | 810 |
| 40 | 0 | 0 | 0 | 0.087 | 0.19 | 567 | 0.14 | 755 |
| 50 | 0 | 0 | 0 | 0.087 | 0.22 | 493 | 0.16 | 698 |
| 60 | 0 | 0 | 0 | 0.087 | 0.26 | 421 | 0.17 | 640 |
| 70 | 0 | 0 | 0 | 0.087 | 0.31 | 350 | 0.19 | 580 |
| 80 | 0 | 0 | 0 | 0.087 | 0.38 | 283 | 0.21 | 519 |
| 90 | 0 | 0 | 0 | 0.087 | 0.49 | 224 | 0.24 | 457 |
| 100 | 0 | 0 | 0 | 0.087 | 0.58 | 189 | 0.28 | 393 |
| 110 | 0 | 0 | 0 | 0.087 | 0.62 | 175 | 0.33 | 330 |
| 120 | 0 | 0 | 0 | 0.087 | 0.67 | 161 | 0.4 | 269 |
| 130 | 0 | 0 | 0 | 0.087 | 0.73 | 149 | 0.51 | 213 |
| 167 | 0 | 0 | 0 | 0.087 | 0.98 | 111 | 0.92 | 118 |
| 212 | 0 | 0 | 0 | 0.087 | 1.32 | 82 | 1.24 | 87 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.228 | 1.55 | 736 | 1.34 | 850* |
| 25 | 0 | 0 | 0 | 0.087 | 0.68 | 644 | 0.55 | 797 |
| 30 | 0 | 0 | 0 | 0.087 | 0.71 | 609 | 0.56 | 770 |
| 40 | 0 | 0 | 0 | 0.087 | 0.81 | 539 | 0.61 | 716 |
| 50 | 0 | 0 | 0 | 0.087 | 0.92 | 472 | 0.66 | 660 |
| 60 | 0 | 0 | 0 | 0.087 | 1.06 | 409 | 0.72 | 604 |
| 70 | 0 | 0 | 0 | 0.087 | 1.24 | 352 | 0.8 | 547 |
| 80 | 0 | 0 | 0 | 0.087 | 1.44 | 302 | 0.89 | 490 |
| 90 | 0 | 0 | 0 | 0.087 | 1.68 | 260 | 1 | 433 |
| 100 | 0 | 0 | 0 | 0.087 | 1.93 | 226 | 1.15 | 379 |
| 110 | 0 | 0 | 0 | 0.087 | 2.14 | 203 | 1.32 | 329 |
| 120 | 0 | 0 | 0 | 0.087 | 2.25 | 193 | 1.53 | 284 |
| 130 | 0 | 0 | 0 | 0.087 | 2.37 | 184 | 1.77 | 246 |
| 167 | 0 | 0 | 0 | 0.087 | 2.8 | 155 | 2.7 | 161 |
| 212 | 0 | 0 | 0 | 0.087 | 3.35 | 130 | 3.27 | 133 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.228 | 3.35 | 766 | 3.02 | 850* |
| 25 | 0 | 0 | 0 | 0.087 | 1.66 | 590 | 1.33 | 734 |
| 30 | 0 | 0 | 0 | 0.087 | 1.75 | 559 | 1.38 | 708 |
| 40 | 0 | 0 | 0 | 0.087 | 1.96 | 499 | 1.49 | 656 |
| 50 | 0 | 0 | 0 | 0.087 | 2.21 | 444 | 1.62 | 603 |
| 60 | 0 | 0 | 0 | 0.087 | 2.48 | 395 | 1.78 | 551 |
| 70 | 0 | 0 | 0 | 0.087 | 2.78 | 352 | 1.96 | 500 |
| 80 | 0 | 0 | 0 | 0.087 | 3.11 | 315 | 2.17 | 451 |
| 90 | 0 | 0 | 0 | 0.087 | 3.44 | 285 | 2.41 | 406 |
| 100 | 0 | 0 | 0 | 0.087 | 3.78 | 259 | 2.69 | 364 |
| 110 | 0 | 0 | 0 | 0.087 | 4.11 | 238 | 2.99 | 327 |
| 120 | 0 | 0 | 0 | 0.087 | 4.44 | 221 | 3.31 | 296 |
| 130 | 0 | 0 | 0 | 0.087 | 4.62 | 212 | 3.64 | 269 |
| 167 | 0 | 0 | 0 | 0.087 | 5.21 | 188 | 4.85 | 202 |
| 212 | 0 | 0 | 0 | 0.087 | 5.92 | 166 | 5.85 | 168 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.228 | 5.77 | 791 | 5.37 | 850* |
| 25 | 0 | 0 | 0 | 0.087 | 3.3 | 528 | 2.66 | 654 |
| 30 | 0 | 0 | 0 | 0.087 | 3.46 | 503 | 2.76 | 630 |
| 40 | 0 | 0 | 0 | 0.087 | 3.81 | 457 | 2.99 | 583 |
| 50 | 0 | 0 | 0 | 0.087 | 4.19 | 416 | 3.24 | 537 |
| 60 | 0 | 0 | 0 | 0.087 | 4.58 | 380 | 3.53 | 494 |
| 70 | 0 | 0 | 0 | 0.087 | 4.99 | 349 | 3.84 | 453 |
| 80 | 0 | 0 | 0 | 0.087 | 5.39 | 323 | 4.19 | 416 |
| 90 | 0 | 0 | 0 | 0.087 | 5.8 | 300 | 4.55 | 382 |
| 100 | 0 | 0 | 0 | 0.087 | 6.21 | 281 | 4.94 | 353 |
| 110 | 0 | 0 | 0 | 0.087 | 6.6 | 264 | 5.33 | 327 |
| 120 | 0 | 0 | 0 | 0.087 | 6.99 | 249 | 5.73 | 304 |
| 130 | 0 | 0 | 0 | 0.087 | 7.36 | 237 | 6.13 | 284 |
| 167 | 0 | 0 | 0 | 0.087 | 8.18 | 213 | 7.55 | 231 |
| 212 | 0 | 0 | 0 | 0.087 | 9.03 | 193 | 8.96 | 195 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.228 | 8.83 | 808 | 8.39 | 850* |
| 25 | 0 | 0 | 0 | 0.087 | 5.76 | 472 | 4.76 | 572 |
| 30 | 0 | 0 | 0 | 0.087 | 5.99 | 454 | 4.93 | 552 |
| 40 | 0 | 0 | 0 | 0.087 | 6.46 | 421 | 5.3 | 514 |
| 50 | 0 | 0 | 0 | 0.087 | 6.93 | 393 | 5.69 | 478 |
| 60 | 0 | 0 | 0 | 0.087 | 7.4 | 368 | 6.11 | 446 |
| 70 | 0 | 0 | 0 | 0.087 | 7.87 | 346 | 6.54 | 416 |
| 80 | 0 | 0 | 0 | 0.087 | 8.34 | 326 | 6.98 | 390 |
| 90 | 0 | 0 | 0 | 0.087 | 8.8 | 309 | 7.44 | 366 |
| 100 | 0 | 0 | 0 | 0.087 | 9.25 | 294 | 7.89 | 345 |
| 110 | 0 | 0 | 0 | 0.087 | 9.69 | 281 | 8.35 | 326 |
| 120 | 0 | 0 | 0 | 0.087 | 10.13 | 269 | 8.8 | 309 |
| 130 | 0 | 0 | 0 | 0.087 | 10.55 | 258 | 9.25 | 294 |
| 167 | 0 | 0 | 0 | 0.087 | 11.71 | 233 | 10.83 | 252 |
| 212 | 0 | 0 | 0 | 0.087 | 12.69 | 215 | 12.59 | 216 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-5 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-2 | 1-6 | 1-9 | 1-11 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-11 | 2-4 | 2-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 |
| 225.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 |
| 250.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-2 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-8 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 |
| 250.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 3-0 | 3-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 |
| 250.00 | 0-11 | 1-0 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 |
| 300.00 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 3-0 |
| 325.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-2 | 3-6 |
| 350.00 | 1-9 | 1-11 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-3 | 3-8 | 4-1 |
| 375.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-2 | 4-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 |
| 250.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-5 | 2-7 | 2-10 |
| 275.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-11 | 3-2 | 3-5 |
| 300.00 | 1-7 | 1-9 | 2-0 | 2-2 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 |
| 325.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-5 | 4-10 |
| 350.00 | 2-2 | 2-5 | 2-8 | 3-0 | 3-5 | 3-9 | 4-3 | 4-8 | 5-2 | 5-7 |
| 375.00 | 2-5 | 2-9 | 3-1 | 3-5 | 3-11 | 4-4 | 4-10 | 5-5 | 5-11 | 6-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS



OH806.7

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 225.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 |
| 275.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 300.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 |
| 325.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 |
| 350.00 | 2-0 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-1 |
| 375.00 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 |
| 400.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-7 | 4-11 | 5-4 |
| 425.00 | 2-11 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 | 4-9 | 5-2 | 5-7 | 6-0 |
| 450.00 | 3-3 | 3-6 | 3-9 | 4-1 | 4-6 | 4-10 | 5-4 | 5-9 | 6-3 | 6-9 |
| 475.00 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-5 | 5-11 | 6-5 | 7-0 | 7-6 |
| 500.00 | 4-0 | 4-4 | 4-8 | 5-1 | 5-6 | 6-0 | 6-7 | 7-1 | 7-9 | 8-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 |
| 250.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 275.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 |
| 300.00 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 |
| 325.00 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 | 4-4 |
| 350.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 |
| 375.00 | 2-9 | 3-1 | 3-4 | 3-8 | 4-0 | 4-5 | 4-9 | 5-1 | 5-5 | 5-10 |
| 400.00 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 | 5-0 | 5-5 | 5-10 | 6-2 | 6-7 |
| 425.00 | 3-7 | 3-11 | 4-4 | 4-9 | 5-2 | 5-8 | 6-1 | 6-7 | 7-0 | 7-5 |
| 450.00 | 4-0 | 4-5 | 4-10 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-10 | 8-4 |
| 475.00 | 4-5 | 4-11 | 5-5 | 5-11 | 6-6 | 7-0 | 7-7 | 8-2 | 8-9 | 9-4 |
| 500.00 | 4-11 | 5-5 | 5-11 | 6-7 | 7-2 | 7-9 | 8-5 | 9-1 | 9-8 | 10-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 |
| 275.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 |
| 300.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 325.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 |
| 350.00 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 |
| 375.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 |
| 400.00 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-4 |
| 425.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-9 | 5-1 | 5-4 | 5-8 | 6-0 |
| 450.00 | 3-9 | 4-0 | 4-3 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-5 | 6-9 |
| 475.00 | 4-2 | 4-5 | 4-9 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-1 | 7-6 |
| 500.00 | 4-7 | 4-11 | 5-4 | 5-8 | 6-1 | 6-6 | 7-0 | 7-5 | 7-11 | 8-4 |
| 525.00 | 5-1 | 5-5 | 5-10 | 6-3 | 6-9 | 7-3 | 7-8 | 8-2 | 8-8 | 9-2 |
| 550.00 | 5-7 | 6-0 | 6-5 | 6-11 | 7-5 | 7-11 | 8-5 | 9-0 | 9-7 | 10-1 |
| 575.00 | 6-1 | 6-6 | 7-0 | 7-6 | 8-1 | 8-8 | 9-3 | 9-10 | 10-5 | 11-1 |
| 600.00 | 6-7 | 7-1 | 7-8 | 8-2 | 8-10 | 9-5 | 10-1 | 10-9 | 11-4 | 12-0 |
| 625.00 | 7-2 | 7-8 | 8-3 | 8-11 | 9-6 | 10-3 | 10-11 | 11-7 | 12-4 | 13-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 |
| 275.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 |
| 300.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 325.00 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 |
| 350.00 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 |
| 375.00 | 3-1 | 3-4 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 |
| 400.00 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 | 5-8 | 5-11 | 6-2 |
| 425.00 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 |
| 450.00 | 4-6 | 4-10 | 5-3 | 5-7 | 6-0 | 6-5 | 6-9 | 7-2 | 7-6 | 7-10 |
| 475.00 | 5-0 | 5-5 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 |
| 500.00 | 5-6 | 6-0 | 6-5 | 6-11 | 7-5 | 7-10 | 8-4 | 8-10 | 9-3 | 9-8 |
| 525.00 | 6-1 | 6-7 | 7-1 | 7-8 | 8-2 | 8-8 | 9-2 | 9-8 | 10-2 | 10-8 |
| 550.00 | 6-8 | 7-3 | 7-10 | 8-5 | 8-11 | 9-6 | 10-1 | 10-8 | 11-2 | 11-9 |
| 575.00 | 7-4 | 7-11 | 8-6 | 9-2 | 9-9 | 10-5 | 11-0 | 11-8 | 12-3 | 12-10 |
| 600.00 | 8-0 | 8-8 | 9-4 | 10-0 | 10-8 | 11-4 | 12-0 | 12-8 | 13-4 | 14-0 |
| 625.00 | 8-8 | 9-4 | 10-1 | 10-10 | 11-7 | 12-4 | 13-0 | 13-9 | 14-6 | 15-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.297 | 0.59 | 631 | 0.44 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 0.14 | 798 | 0.11 | 982 |
| 30 | 0 | 0 | 0 | 0.087 | 0.15 | 722 | 0.12 | 931 |
| 40 | 0 | 0 | 0 | 0.087 | 0.17 | 647 | 0.12 | 879 |
| 50 | 0 | 0 | 0 | 0.087 | 0.19 | 573 | 0.13 | 825 |
| 60 | 0 | 0 | 0 | 0.087 | 0.22 | 499 | 0.14 | 770 |
| 70 | 0 | 0 | 0 | 0.087 | 0.26 | 426 | 0.15 | 713 |
| 80 | 0 | 0 | 0 | 0.087 | 0.31 | 355 | 0.17 | 654 |
| 90 | 0 | 0 | 0 | 0.087 | 0.38 | 288 | 0.18 | 594 |
| 100 | 0 | 0 | 0 | 0.087 | 0.46 | 237 | 0.2 | 532 |
| 110 | 0 | 0 | 0 | 0.087 | 0.49 | 221 | 0.23 | 469 |
| 120 | 0 | 0 | 0 | 0.087 | 0.53 | 205 | 0.27 | 405 |
| 130 | 0 | 0 | 0 | 0.087 | 0.57 | 191 | 0.32 | 340 |
| 167 | 0 | 0 | 0 | 0.087 | 0.77 | 142 | 0.72 | 150 |
| 212 | 0 | 0 | 0 | 0.087 | 1.09 | 100 | 1.01 | 108 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.297 | 2.11 | 705 | 1.75 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 0.59 | 741 | 0.48 | 910 |
| 30 | 0 | 0 | 0 | 0.087 | 0.65 | 669 | 0.51 | 859 |
| 40 | 0 | 0 | 0 | 0.087 | 0.73 | 598 | 0.54 | 806 |
| 50 | 0 | 0 | 0 | 0.087 | 0.82 | 529 | 0.58 | 752 |
| 60 | 0 | 0 | 0 | 0.087 | 0.94 | 462 | 0.62 | 696 |
| 70 | 0 | 0 | 0 | 0.087 | 1.09 | 400 | 0.68 | 640 |
| 80 | 0 | 0 | 0 | 0.087 | 1.27 | 344 | 0.75 | 582 |
| 90 | 0 | 0 | 0 | 0.087 | 1.48 | 295 | 0.83 | 524 |
| 100 | 0 | 0 | 0 | 0.087 | 1.71 | 254 | 0.93 | 467 |
| 110 | 0 | 0 | 0 | 0.087 | 1.91 | 228 | 1.06 | 411 |
| 120 | 0 | 0 | 0 | 0.087 | 2.01 | 217 | 1.22 | 357 |
| 130 | 0 | 0 | 0 | 0.087 | 2.11 | 206 | 1.41 | 309 |
| 167 | 0 | 0 | 0 | 0.087 | 2.53 | 172 | 2.31 | 188 |
| 212 | 0 | 0 | 0 | 0.087 | 3.07 | 142 | 2.99 | 146 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.297 | 4.36 | 767 | 3.94 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 1.51 | 646 | 1.23 | 793 |
| 30 | 0 | 0 | 0 | 0.087 | 1.68 | 582 | 1.32 | 741 |
| 40 | 0 | 0 | 0 | 0.087 | 1.88 | 520 | 1.42 | 689 |
| 50 | 0 | 0 | 0 | 0.087 | 2.11 | 463 | 1.54 | 636 |
| 60 | 0 | 0 | 0 | 0.087 | 2.38 | 412 | 1.68 | 583 |
| 70 | 0 | 0 | 0 | 0.087 | 2.67 | 367 | 1.84 | 531 |
| 80 | 0 | 0 | 0 | 0.087 | 2.99 | 328 | 2.04 | 481 |
| 90 | 0 | 0 | 0 | 0.087 | 3.32 | 295 | 2.26 | 433 |
| 100 | 0 | 0 | 0 | 0.087 | 3.65 | 268 | 2.52 | 389 |
| 110 | 0 | 0 | 0 | 0.087 | 3.99 | 245 | 2.81 | 349 |
| 120 | 0 | 0 | 0 | 0.087 | 4.32 | 227 | 3.12 | 314 |
| 130 | 0 | 0 | 0 | 0.087 | 4.49 | 218 | 3.44 | 285 |
| 167 | 0 | 0 | 0 | 0.087 | 5.07 | 193 | 4.66 | 210 |
| 212 | 0 | 0 | 0 | 0.087 | 5.78 | 170 | 5.71 | 172 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.297 | 7.38 | 807 | 7.01 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 3.31 | 526 | 2.72 | 640 |
| 30 | 0 | 0 | 0 | 0.087 | 3.65 | 477 | 2.94 | 593 |
| 40 | 0 | 0 | 0 | 0.087 | 4.01 | 434 | 3.18 | 547 |
| 50 | 0 | 0 | 0 | 0.087 | 4.4 | 396 | 3.46 | 503 |
| 60 | 0 | 0 | 0 | 0.087 | 4.8 | 363 | 3.77 | 462 |
| 70 | 0 | 0 | 0 | 0.087 | 5.2 | 335 | 4.11 | 424 |
| 80 | 0 | 0 | 0 | 0.087 | 5.61 | 310 | 4.47 | 390 |
| 90 | 0 | 0 | 0 | 0.087 | 6.02 | 289 | 4.85 | 359 |
| 100 | 0 | 0 | 0 | 0.087 | 6.42 | 271 | 5.24 | 332 |
| 110 | 0 | 0 | 0 | 0.087 | 6.81 | 256 | 5.64 | 309 |
| 120 | 0 | 0 | 0 | 0.087 | 7.19 | 242 | 6.03 | 289 |
| 130 | 0 | 0 | 0 | 0.087 | 7.56 | 230 | 6.43 | 271 |
| 167 | 0 | 0 | 0 | 0.087 | 8.39 | 208 | 7.82 | 223 |
| 212 | 0 | 0 | 0 | 0.087 | 9.24 | 189 | 9.17 | 190 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.297 | 11.23 | 829 | 10.96 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 6.44 | 422 | 5.52 | 493 |
| 30 | 0 | 0 | 0 | 0.087 | 6.91 | 393 | 5.93 | 459 |
| 40 | 0 | 0 | 0 | 0.087 | 7.39 | 368 | 6.35 | 429 |
| 50 | 0 | 0 | 0 | 0.087 | 7.86 | 346 | 6.79 | 401 |
| 60 | 0 | 0 | 0 | 0.087 | 8.33 | 327 | 7.23 | 376 |
| 70 | 0 | 0 | 0 | 0.087 | 8.79 | 310 | 7.69 | 354 |
| 80 | 0 | 0 | 0 | 0.087 | 9.24 | 295 | 8.14 | 334 |
| 90 | 0 | 0 | 0 | 0.087 | 9.68 | 281 | 8.59 | 317 |
| 100 | 0 | 0 | 0 | 0.087 | 10.12 | 269 | 9.04 | 301 |
| 110 | 0 | 0 | 0 | 0.087 | 10.54 | 258 | 9.48 | 287 |
| 120 | 0 | 0 | 0 | 0.087 | 10.95 | 249 | 9.91 | 275 |
| 130 | 0 | 0 | 0 | 0.087 | 11.35 | 240 | 10.33 | 264 |
| 167 | 0 | 0 | 0 | 0.087 | 12.53 | 218 | 11.83 | 230 |
| 212 | 0 | 0 | 0 | 0.087 | 13.48 | 202 | 13.42 | 203 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-9 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-1 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-6 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-3 | 1-6 | 1-10 | 2-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS



OH806.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-1 |
| 175.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 | 1-11 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-5 | 1-7 | 1-10 | 2-2 | 2-5 |
| 250.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-6 | 1-8 | 2-0 | 2-4 | 2-8 | 3-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 |
| 300.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 |
| 325.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-4 |
| 350.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-1 | 3-5 | 3-10 |
| 375.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-11 | 3-2 | 3-6 | 3-11 | 4-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 |
| 225.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 |
| 250.00 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 |
| 275.00 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-1 | 3-4 |
| 300.00 | 1-6 | 1-8 | 1-11 | 2-1 | 2-5 | 2-8 | 3-0 | 3-4 | 3-8 | 4-0 |
| 325.00 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-2 | 3-6 | 3-11 | 4-3 | 4-8 |
| 350.00 | 2-1 | 2-3 | 2-7 | 2-11 | 3-3 | 3-8 | 4-1 | 4-6 | 5-0 | 5-5 |
| 375.00 | 2-4 | 2-8 | 2-11 | 3-4 | 3-9 | 4-2 | 4-8 | 5-2 | 5-9 | 6-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS



OH806.15

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 250.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-2 |
| 275.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 |
| 300.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 |
| 325.00 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-6 | 3-9 |
| 350.00 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-0 | 4-4 |
| 375.00 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 |
| 400.00 | 2-9 | 2-11 | 3-2 | 3-6 | 3-9 | 4-1 | 4-6 | 4-10 | 5-3 | 5-8 |
| 425.00 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-8 | 5-1 | 5-6 | 5-11 | 6-4 |
| 450.00 | 3-5 | 3-9 | 4-0 | 4-5 | 4-9 | 5-2 | 5-8 | 6-2 | 6-8 | 7-2 |
| 475.00 | 3-10 | 4-2 | 4-6 | 4-11 | 5-4 | 5-10 | 6-4 | 6-10 | 7-5 | 7-11 |
| 500.00 | 4-3 | 4-7 | 5-0 | 5-5 | 5-11 | 6-5 | 7-0 | 7-7 | 8-2 | 8-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 225.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |
| 250.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 275.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 |
| 300.00 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 |
| 325.00 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 |
| 350.00 | 2-6 | 2-9 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 | 4-7 | 4-11 | 5-3 |
| 375.00 | 2-11 | 3-2 | 3-6 | 3-10 | 4-3 | 4-7 | 4-11 | 5-3 | 5-8 | 6-0 |
| 400.00 | 3-4 | 3-8 | 4-0 | 4-5 | 4-10 | 5-2 | 5-7 | 6-0 | 6-5 | 6-10 |
| 425.00 | 3-9 | 4-1 | 4-6 | 5-0 | 5-5 | 5-10 | 6-4 | 6-10 | 7-3 | 7-8 |
| 450.00 | 4-2 | 4-7 | 5-1 | 5-7 | 6-1 | 6-7 | 7-1 | 7-7 | 8-1 | 8-7 |
| 475.00 | 4-8 | 5-2 | 5-8 | 6-2 | 6-9 | 7-4 | 7-11 | 8-6 | 9-1 | 9-7 |
| 500.00 | 5-2 | 5-8 | 6-3 | 6-10 | 7-6 | 8-2 | 8-9 | 9-5 | 10-0 | 10-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 |
| 275.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 300.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 |
| 325.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 |
| 350.00 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-8 |
| 375.00 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 |
| 400.00 | 3-6 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 | 5-6 | 5-9 | 6-1 |
| 425.00 | 4-0 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-10 |
| 450.00 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-3 | 6-7 | 6-11 | 7-4 | 7-8 |
| 475.00 | 5-0 | 5-4 | 5-9 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-2 | 8-7 |
| 500.00 | 5-6 | 5-11 | 6-4 | 6-9 | 7-3 | 7-8 | 8-2 | 8-7 | 9-0 | 9-6 |
| 525.00 | 6-1 | 6-6 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-5 |
| 550.00 | 6-8 | 7-2 | 7-8 | 8-3 | 8-9 | 9-4 | 9-10 | 10-5 | 10-11 | 11-6 |
| 575.00 | 7-4 | 7-10 | 8-5 | 9-0 | 9-7 | 10-2 | 10-9 | 11-4 | 11-11 | 12-6 |
| 600.00 | 7-11 | 8-6 | 9-2 | 9-9 | 10-5 | 11-1 | 11-9 | 12-4 | 13-0 | 13-8 |
| 625.00 | 8-8 | 9-3 | 9-11 | 10-7 | 11-4 | 12-0 | 12-9 | 13-5 | 14-1 | 14-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 |
| 275.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 |
| 300.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 325.00 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 |
| 350.00 | 3-2 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 4-11 | 5-2 |
| 375.00 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 |
| 400.00 | 4-1 | 4-5 | 4-9 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 |
| 425.00 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 |
| 450.00 | 5-3 | 5-7 | 6-0 | 6-4 | 6-9 | 7-1 | 7-6 | 7-10 | 8-2 | 8-6 |
| 475.00 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 | 9-2 | 9-6 |
| 500.00 | 6-5 | 6-11 | 7-5 | 7-10 | 8-4 | 8-9 | 9-3 | 9-8 | 10-1 | 10-6 |
| 525.00 | 7-1 | 7-7 | 8-2 | 8-8 | 9-2 | 9-8 | 10-2 | 10-8 | 11-2 | 11-7 |
| 550.00 | 7-10 | 8-4 | 8-11 | 9-6 | 10-1 | 10-8 | 11-2 | 11-9 | 12-3 | 12-9 |
| 575.00 | 8-6 | 9-2 | 9-9 | 10-5 | 11-0 | 11-8 | 12-3 | 12-10 | 13-5 | 13-11 |
| 600.00 | 9-3 | 9-11 | 10-8 | 11-4 | 12-0 | 12-8 | 13-4 | 13-11 | 14-7 | 15-2 |
| 625.00 | 10-1 | 10-10 | 11-7 | 12-3 | 13-0 | 13-9 | 14-5 | 15-2 | 15-10 | 16-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.495 | 0.9 | 687 | 0.73 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 0.14 | 767 | 0.12 | 936 |
| 30 | 0 | 0 | 0 | 0.087 | 0.16 | 691 | 0.12 | 885 |
| 40 | 0 | 0 | 0 | 0.087 | 0.18 | 616 | 0.13 | 832 |
| 50 | 0 | 0 | 0 | 0.087 | 0.2 | 542 | 0.14 | 777 |
| 60 | 0 | 0 | 0 | 0.087 | 0.23 | 468 | 0.15 | 720 |
| 70 | 0 | 0 | 0 | 0.087 | 0.27 | 396 | 0.16 | 662 |
| 80 | 0 | 0 | 0 | 0.087 | 0.33 | 327 | 0.18 | 602 |
| 90 | 0 | 0 | 0 | 0.087 | 0.41 | 262 | 0.2 | 541 |
| 100 | 0 | 0 | 0 | 0.087 | 0.5 | 218 | 0.23 | 478 |
| 110 | 0 | 0 | 0 | 0.087 | 0.54 | 203 | 0.26 | 415 |
| 120 | 0 | 0 | 0 | 0.087 | 0.58 | 188 | 0.31 | 351 |
| 130 | 0 | 0 | 0 | 0.087 | 0.63 | 174 | 0.38 | 288 |
| 167 | 0 | 0 | 0 | 0.087 | 0.85 | 129 | 0.8 | 137 |
| 212 | 0 | 0 | 0 | 0.087 | 1.18 | 92 | 1.1 | 99 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.495 | 3.08 | 803 | 2.91 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 0.71 | 610 | 0.6 | 724 |
| 30 | 0 | 0 | 0 | 0.087 | 0.81 | 540 | 0.65 | 670 |
| 40 | 0 | 0 | 0 | 0.087 | 0.92 | 473 | 0.71 | 614 |
| 50 | 0 | 0 | 0 | 0.087 | 1.06 | 410 | 0.78 | 558 |
| 60 | 0 | 0 | 0 | 0.087 | 1.23 | 353 | 0.87 | 501 |
| 70 | 0 | 0 | 0 | 0.087 | 1.44 | 302 | 0.98 | 445 |
| 80 | 0 | 0 | 0 | 0.087 | 1.67 | 260 | 1.11 | 391 |
| 90 | 0 | 0 | 0 | 0.087 | 1.92 | 226 | 1.28 | 340 |
| 100 | 0 | 0 | 0 | 0.087 | 2.18 | 200 | 1.48 | 294 |
| 110 | 0 | 0 | 0 | 0.087 | 2.43 | 179 | 1.71 | 255 |
| 120 | 0 | 0 | 0 | 0.087 | 2.55 | 171 | 1.95 | 223 |
| 130 | 0 | 0 | 0 | 0.087 | 2.67 | 163 | 2.21 | 197 |
| 167 | 0 | 0 | 0 | 0.087 | 3.12 | 140 | 3.05 | 143 |
| 212 | 0 | 0 | 0 | 0.087 | 3.66 | 119 | 3.57 | 122 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.495 | 6.56 | 850 | 6.56 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 2.82 | 347 | 2.42 | 405 |
| 30 | 0 | 0 | 0 | 0.087 | 3.15 | 311 | 2.68 | 365 |
| 40 | 0 | 0 | 0 | 0.087 | 3.48 | 281 | 2.97 | 329 |
| 50 | 0 | 0 | 0 | 0.087 | 3.82 | 256 | 3.29 | 298 |
| 60 | 0 | 0 | 0 | 0.087 | 4.15 | 236 | 3.61 | 271 |
| 70 | 0 | 0 | 0 | 0.087 | 4.48 | 219 | 3.94 | 249 |
| 80 | 0 | 0 | 0 | 0.087 | 4.8 | 204 | 4.26 | 230 |
| 90 | 0 | 0 | 0 | 0.087 | 5.11 | 192 | 4.59 | 214 |
| 100 | 0 | 0 | 0 | 0.087 | 5.41 | 181 | 4.9 | 200 |
| 110 | 0 | 0 | 0 | 0.087 | 5.7 | 172 | 5.21 | 188 |
| 120 | 0 | 0 | 0 | 0.087 | 5.98 | 164 | 5.51 | 178 |
| 130 | 0 | 0 | 0 | 0.087 | 6.25 | 157 | 5.79 | 169 |
| 167 | 0 | 0 | 0 | 0.087 | 6.8 | 144 | 6.73 | 146 |
| 212 | 0 | 0 | 0 | 0.087 | 7.45 | 132 | 7.38 | 133 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.495 | 11.68 | 850 | 11.68 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 7.95 | 219 | 7.32 | 238 |
| 30 | 0 | 0 | 0 | 0.087 | 8.3 | 210 | 7.69 | 227 |
| 40 | 0 | 0 | 0 | 0.087 | 8.64 | 202 | 8.05 | 217 |
| 50 | 0 | 0 | 0 | 0.087 | 8.97 | 194 | 8.39 | 208 |
| 60 | 0 | 0 | 0 | 0.087 | 9.3 | 188 | 8.73 | 200 |
| 70 | 0 | 0 | 0 | 0.087 | 9.61 | 181 | 9.07 | 192 |
| 80 | 0 | 0 | 0 | 0.087 | 9.92 | 176 | 9.39 | 186 |
| 90 | 0 | 0 | 0 | 0.087 | 10.22 | 171 | 9.7 | 180 |
| 100 | 0 | 0 | 0 | 0.087 | 10.52 | 166 | 10.01 | 174 |
| 110 | 0 | 0 | 0 | 0.087 | 10.8 | 162 | 10.32 | 169 |
| 120 | 0 | 0 | 0 | 0.087 | 11.09 | 157 | 10.61 | 164 |
| 130 | 0 | 0 | 0 | 0.087 | 11.34 | 154 | 10.9 | 160 |
| 167 | 0 | 0 | 0 | 0.087 | 11.95 | 146 | 11.87 | 147 |
| 212 | 0 | 0 | 0 | 0.087 | 12.66 | 138 | 12.58 | 139 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.495 | 18.29 | 850 | 18.29 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 14.67 | 186 | 14.08 | 194 |
| 30 | 0 | 0 | 0 | 0.087 | 15 | 182 | 14.42 | 189 |
| 40 | 0 | 0 | 0 | 0.087 | 15.32 | 178 | 14.75 | 185 |
| 50 | 0 | 0 | 0 | 0.087 | 15.63 | 175 | 15.07 | 181 |
| 60 | 0 | 0 | 0 | 0.087 | 15.94 | 171 | 15.4 | 177 |
| 70 | 0 | 0 | 0 | 0.087 | 16.24 | 168 | 15.71 | 174 |
| 80 | 0 | 0 | 0 | 0.087 | 16.54 | 165 | 16.02 | 170 |
| 90 | 0 | 0 | 0 | 0.087 | 16.83 | 162 | 16.33 | 167 |
| 100 | 0 | 0 | 0 | 0.087 | 17.12 | 160 | 16.63 | 164 |
| 110 | 0 | 0 | 0 | 0.087 | 17.41 | 157 | 16.92 | 161 |
| 120 | 0 | 0 | 0 | 0.087 | 17.69 | 154 | 17.21 | 159 |
| 130 | 0 | 0 | 0 | 0.087 | 17.93 | 152 | 17.5 | 156 |
| 167 | 0 | 0 | 0 | 0.087 | 18.57 | 147 | 18.49 | 148 |
| 212 | 0 | 0 | 0 | 0.087 | 19.32 | 142 | 19.24 | 142 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-8 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-2 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-8 | 1-10 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 |
| 225.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 | 3-1 |
| 250.00 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 3-0 | 3-5 | 3-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 |
| 225.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 250.00 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 |
| 275.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 |
| 300.00 | 2-5 | 2-8 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 | 5-2 |
| 325.00 | 2-10 | 3-2 | 3-6 | 3-10 | 4-3 | 4-7 | 5-0 | 5-5 | 5-9 | 6-1 |
| 350.00 | 3-3 | 3-8 | 4-1 | 4-6 | 4-11 | 5-4 | 5-10 | 6-3 | 6-8 | 7-1 |
| 375.00 | 3-9 | 4-2 | 4-8 | 5-2 | 5-8 | 6-2 | 6-8 | 7-2 | 7-8 | 8-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 |
| 225.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 250.00 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 |
| 275.00 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-9 |
| 300.00 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 |
| 325.00 | 3-4 | 3-8 | 4-1 | 4-6 | 4-10 | 5-3 | 5-8 | 6-0 | 6-4 | 6-8 |
| 350.00 | 3-10 | 4-3 | 4-9 | 5-2 | 5-8 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 |
| 375.00 | 4-5 | 4-11 | 5-5 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-5 | 8-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS



OH806.23

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 225.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 |
| 250.00 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 |
| 275.00 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 |
| 300.00 | 4-1 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-8 | 5-10 |
| 325.00 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-10 |
| 350.00 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 |
| 375.00 | 6-5 | 6-9 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 | 8-6 | 8-10 | 9-1 |
| 400.00 | 7-4 | 7-8 | 8-1 | 8-5 | 8-9 | 9-1 | 9-5 | 9-8 | 10-0 | 10-4 |
| 425.00 | 8-3 | 8-8 | 9-1 | 9-6 | 9-10 | 10-3 | 10-7 | 10-11 | 11-4 | 11-8 |
| 450.00 | 9-3 | 9-9 | 10-2 | 10-7 | 11-1 | 11-6 | 11-11 | 12-3 | 12-8 | 13-1 |
| 475.00 | 10-4 | 10-10 | 11-4 | 11-10 | 12-4 | 12-9 | 13-3 | 13-8 | 14-2 | 14-7 |
| 500.00 | 11-5 | 12-0 | 12-7 | 13-1 | 13-8 | 14-2 | 14-8 | 15-2 | 15-8 | 16-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 |
| 225.00 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 |
| 250.00 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 |
| 275.00 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 |
| 300.00 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 325.00 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 |
| 350.00 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 |
| 375.00 | 7-0 | 7-3 | 7-7 | 7-11 | 8-2 | 8-5 | 8-9 | 9-0 | 9-3 | 9-6 |
| 400.00 | 7-11 | 8-4 | 8-8 | 9-0 | 9-4 | 9-7 | 9-11 | 10-3 | 10-6 | 10-10 |
| 425.00 | 9-0 | 9-4 | 9-9 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 |
| 450.00 | 10-1 | 10-6 | 10-11 | 11-4 | 11-9 | 12-2 | 12-7 | 12-11 | 13-4 | 13-8 |
| 475.00 | 11-2 | 11-8 | 12-2 | 12-8 | 13-1 | 13-7 | 14-0 | 14-5 | 14-10 | 15-3 |
| 500.00 | 12-5 | 13-0 | 13-6 | 14-0 | 14-6 | 15-0 | 15-6 | 16-0 | 16-5 | 16-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 275.00 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 300.00 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 6-0 | 6-1 |
| 325.00 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 |
| 350.00 | 6-11 | 7-1 | 7-3 | 7-5 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 |
| 375.00 | 7-11 | 8-1 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 |
| 400.00 | 9-0 | 9-3 | 9-5 | 9-8 | 9-10 | 10-1 | 10-3 | 10-5 | 10-8 | 10-10 |
| 425.00 | 10-2 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-7 | 11-9 | 12-0 | 12-3 |
| 450.00 | 11-5 | 11-8 | 11-11 | 12-2 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-8 |
| 475.00 | 12-8 | 13-0 | 13-4 | 13-7 | 13-11 | 14-2 | 14-5 | 14-9 | 15-0 | 15-3 |
| 500.00 | 14-1 | 14-5 | 14-9 | 15-1 | 15-5 | 15-9 | 16-0 | 16-4 | 16-8 | 16-11 |
| 525.00 | 15-6 | 15-11 | 16-3 | 16-7 | 17-0 | 17-4 | 17-8 | 18-0 | 18-4 | 18-8 |
| 550.00 | 17-0 | 17-5 | 17-10 | 18-3 | 18-8 | 19-0 | 19-5 | 19-9 | 20-1 | 20-6 |
| 575.00 | 18-7 | 19-1 | 19-6 | 19-11 | 20-4 | 20-9 | 21-2 | 21-7 | 22-0 | 22-5 |
| 600.00 | 20-3 | 20-9 | 21-3 | 21-9 | 22-2 | 22-8 | 23-1 | 23-6 | 23-11 | 24-5 |
| 625.00 | 22-0 | 22-6 | 23-1 | 23-7 | 24-1 | 24-7 | 25-1 | 25-6 | 26-0 | 26-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 |
| 275.00 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 300.00 | 5-3 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 |
| 325.00 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 |
| 350.00 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 |
| 375.00 | 8-3 | 8-5 | 8-7 | 8-9 | 9-0 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 |
| 400.00 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 | 10-11 | 11-2 |
| 425.00 | 10-7 | 10-10 | 11-1 | 11-3 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-7 |
| 450.00 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-10 | 14-1 |
| 475.00 | 13-3 | 13-6 | 13-10 | 14-1 | 14-5 | 14-8 | 14-11 | 15-2 | 15-5 | 15-8 |
| 500.00 | 14-8 | 15-0 | 15-4 | 15-8 | 15-11 | 16-3 | 16-6 | 16-10 | 17-1 | 17-5 |
| 525.00 | 16-2 | 16-6 | 16-11 | 17-3 | 17-7 | 17-11 | 18-3 | 18-7 | 18-11 | 19-2 |
| 550.00 | 17-9 | 18-2 | 18-6 | 18-11 | 19-3 | 19-8 | 20-0 | 20-4 | 20-9 | 21-1 |
| 575.00 | 19-5 | 19-10 | 20-3 | 20-8 | 21-1 | 21-6 | 21-11 | 22-3 | 22-8 | 23-0 |
| 600.00 | 21-2 | 21-7 | 22-1 | 22-6 | 23-0 | 23-5 | 23-10 | 24-3 | 24-8 | 25-1 |
| 625.00 | 22-11 | 23-5 | 23-11 | 24-5 | 24-11 | 25-5 | 25-10 | 26-4 | 26-9 | 27-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.834 | 1.34 | 779 | 1.23 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 0.16 | 676 | 0.14 | 802 |
| 30 | 0 | 0 | 0 | 0.087 | 0.18 | 601 | 0.15 | 747 |
| 40 | 0 | 0 | 0 | 0.087 | 0.21 | 527 | 0.16 | 691 |
| 50 | 0 | 0 | 0 | 0.087 | 0.24 | 453 | 0.17 | 633 |
| 60 | 0 | 0 | 0 | 0.087 | 0.28 | 382 | 0.19 | 574 |
| 70 | 0 | 0 | 0 | 0.087 | 0.35 | 313 | 0.21 | 513 |
| 80 | 0 | 0 | 0 | 0.087 | 0.44 | 250 | 0.24 | 451 |
| 90 | 0 | 0 | 0 | 0.087 | 0.56 | 196 | 0.28 | 388 |
| 100 | 0 | 0 | 0 | 0.087 | 0.65 | 167 | 0.33 | 325 |
| 110 | 0 | 0 | 0 | 0.087 | 0.71 | 154 | 0.41 | 265 |
| 120 | 0 | 0 | 0 | 0.087 | 0.77 | 142 | 0.52 | 210 |
| 130 | 0 | 0 | 0 | 0.087 | 0.83 | 131 | 0.66 | 166 |
| 167 | 0 | 0 | 0 | 0.087 | 1.1 | 99 | 1.04 | 105 |
| 212 | 0 | 0 | 0 | 0.087 | 1.44 | 76 | 1.36 | 80 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.834 | 4.92 | 850 | 4.92 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 2.29 | 190 | 1.85 | 235 |
| 30 | 0 | 0 | 0 | 0.087 | 2.54 | 171 | 2.1 | 207 |
| 40 | 0 | 0 | 0 | 0.087 | 2.79 | 156 | 2.35 | 185 |
| 50 | 0 | 0 | 0 | 0.087 | 3.02 | 144 | 2.6 | 168 |
| 60 | 0 | 0 | 0 | 0.087 | 3.25 | 134 | 2.84 | 153 |
| 70 | 0 | 0 | 0 | 0.087 | 3.46 | 126 | 3.07 | 142 |
| 80 | 0 | 0 | 0 | 0.087 | 3.67 | 119 | 3.3 | 132 |
| 90 | 0 | 0 | 0 | 0.087 | 3.87 | 113 | 3.51 | 124 |
| 100 | 0 | 0 | 0 | 0.087 | 4.03 | 108 | 3.72 | 117 |
| 110 | 0 | 0 | 0 | 0.087 | 4.14 | 105 | 3.92 | 111 |
| 120 | 0 | 0 | 0 | 0.087 | 4.25 | 103 | 4.11 | 106 |
| 130 | 0 | 0 | 0 | 0.087 | 4.35 | 100 | 4.27 | 102 |
| 167 | 0 | 0 | 0 | 0.087 | 4.74 | 92 | 4.66 | 94 |
| 212 | 0 | 0 | 0 | 0.087 | 5.18 | 84 | 5.1 | 86 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.834 | 11.1 | 850 | 11.1 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 8.76 | 112 | 8.37 | 117 |
| 30 | 0 | 0 | 0 | 0.087 | 8.96 | 110 | 8.58 | 114 |
| 40 | 0 | 0 | 0 | 0.087 | 9.15 | 107 | 8.79 | 112 |
| 50 | 0 | 0 | 0 | 0.087 | 9.35 | 105 | 8.99 | 109 |
| 60 | 0 | 0 | 0 | 0.087 | 9.53 | 103 | 9.19 | 107 |
| 70 | 0 | 0 | 0 | 0.087 | 9.72 | 101 | 9.38 | 105 |
| 80 | 0 | 0 | 0 | 0.087 | 9.9 | 99 | 9.58 | 103 |
| 90 | 0 | 0 | 0 | 0.087 | 10.07 | 98 | 9.76 | 101 |
| 100 | 0 | 0 | 0 | 0.087 | 10.18 | 97 | 9.95 | 99 |
| 110 | 0 | 0 | 0 | 0.087 | 10.29 | 96 | 10.13 | 97 |
| 120 | 0 | 0 | 0 | 0.087 | 10.4 | 95 | 10.31 | 95 |
| 130 | 0 | 0 | 0 | 0.087 | 10.51 | 94 | 10.42 | 94 |
| 167 | 0 | 0 | 0 | 0.087 | 10.91 | 90 | 10.82 | 91 |
| 212 | 0 | 0 | 0 | 0.087 | 11.38 | 86 | 11.29 | 87 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.834 | 19.82 | 850 | 19.82 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 17.57 | 100 | 17.21 | 102 |
| 30 | 0 | 0 | 0 | 0.087 | 17.75 | 99 | 17.4 | 101 |
| 40 | 0 | 0 | 0 | 0.087 | 17.93 | 98 | 17.59 | 100 |
| 50 | 0 | 0 | 0 | 0.087 | 18.11 | 97 | 17.78 | 99 |
| 60 | 0 | 0 | 0 | 0.087 | 18.29 | 96 | 17.96 | 98 |
| 70 | 0 | 0 | 0 | 0.087 | 18.46 | 95 | 18.15 | 97 |
| 80 | 0 | 0 | 0 | 0.087 | 18.64 | 94 | 18.33 | 96 |
| 90 | 0 | 0 | 0 | 0.087 | 18.78 | 93 | 18.51 | 95 |
| 100 | 0 | 0 | 0 | 0.087 | 18.89 | 93 | 18.68 | 94 |
| 110 | 0 | 0 | 0 | 0.087 | 19 | 92 | 18.86 | 93 |
| 120 | 0 | 0 | 0 | 0.087 | 19.11 | 92 | 19.02 | 92 |
| 130 | 0 | 0 | 0 | 0.087 | 19.22 | 91 | 19.13 | 92 |
| 167 | 0 | 0 | 0 | 0.087 | 19.63 | 90 | 19.53 | 90 |
| 212 | 0 | 0 | 0 | 0.087 | 20.11 | 87 | 20.02 | 88 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.834 | 31.14 | 850 | 31.14 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 28.93 | 95 | 28.59 | 96 |
| 30 | 0 | 0 | 0 | 0.087 | 29.11 | 95 | 28.77 | 96 |
| 40 | 0 | 0 | 0 | 0.087 | 29.28 | 94 | 28.95 | 95 |
| 50 | 0 | 0 | 0 | 0.087 | 29.46 | 94 | 29.13 | 95 |
| 60 | 0 | 0 | 0 | 0.087 | 29.63 | 93 | 29.31 | 94 |
| 70 | 0 | 0 | 0 | 0.087 | 29.8 | 93 | 29.49 | 93 |
| 80 | 0 | 0 | 0 | 0.087 | 29.97 | 92 | 29.66 | 93 |
| 90 | 0 | 0 | 0 | 0.087 | 30.1 | 92 | 29.84 | 92 |
| 100 | 0 | 0 | 0 | 0.087 | 30.21 | 91 | 30.01 | 92 |
| 110 | 0 | 0 | 0 | 0.087 | 30.32 | 91 | 30.19 | 91 |
| 120 | 0 | 0 | 0 | 0.087 | 30.43 | 91 | 30.34 | 91 |
| 130 | 0 | 0 | 0 | 0.087 | 30.54 | 90 | 30.45 | 91 |
| 167 | 0 | 0 | 0 | 0.087 | 30.95 | 89 | 30.85 | 89 |
| 212 | 0 | 0 | 0 | 0.087 | 31.43 | 88 | 31.34 | 88 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-3 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-4 | 1-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-1 |
| 150.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 1-0 | 1-3 | 1-6 | 1-7 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-1 | 1-4 | 1-8 | 2-0 | 2-2 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-3 | 2-7 | 2-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 175.00 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 200.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 |
| 225.00 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 |
| 250.00 | 2-11 | 3-3 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-0 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 150.00 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 |
| 175.00 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-2 |
| 200.00 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 225.00 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 | 5-1 | 5-3 |
| 250.00 | 3-7 | 4-0 | 4-4 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS



OH806.30

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 |
| 175.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 |
| 200.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 225.00 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 |
| 250.00 | 5-10 | 5-11 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 |
| 275.00 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-2 | 8-4 | 8-6 |
| 300.00 | 8-4 | 8-7 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-9 | 9-11 | 10-2 |
| 325.00 | 9-10 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 |
| 350.00 | 11-5 | 11-8 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 | 13-4 | 13-7 | 13-10 |
| 375.00 | 13-1 | 13-5 | 13-9 | 14-1 | 14-4 | 14-8 | 15-0 | 15-3 | 15-7 | 15-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 175.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 |
| 225.00 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 |
| 250.00 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 |
| 275.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-5 | 8-7 | 8-8 |
| 300.00 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-2 | 10-3 |
| 325.00 | 10-3 | 10-6 | 10-9 | 11-0 | 11-2 | 11-5 | 11-7 | 11-10 | 11-11 | 12-1 |
| 350.00 | 11-11 | 12-2 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-8 | 13-10 | 14-0 |
| 375.00 | 13-8 | 14-0 | 14-4 | 14-7 | 14-11 | 15-2 | 15-6 | 15-9 | 15-11 | 16-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 |
| 225.00 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 |
| 250.00 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 |
| 275.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 |
| 300.00 | 9-8 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 | 10-4 | 10-5 | 10-6 | 10-7 |
| 325.00 | 11-4 | 11-6 | 11-7 | 11-9 | 11-10 | 12-0 | 12-1 | 12-2 | 12-4 | 12-5 |
| 350.00 | 13-2 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 | 14-4 | 14-5 |
| 375.00 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 |
| 400.00 | 17-3 | 17-5 | 17-7 | 17-9 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 |
| 425.00 | 19-5 | 19-8 | 19-10 | 20-1 | 20-3 | 20-6 | 20-8 | 20-11 | 21-1 | 21-4 |
| 450.00 | 21-10 | 22-0 | 22-3 | 22-6 | 22-9 | 23-0 | 23-3 | 23-5 | 23-8 | 23-11 |
| 475.00 | 24-4 | 24-7 | 24-10 | 25-1 | 25-4 | 25-7 | 25-10 | 26-2 | 26-5 | 26-8 |
| 500.00 | 26-11 | 27-3 | 27-6 | 27-10 | 28-1 | 28-5 | 28-8 | 29-0 | 29-3 | 29-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 |
| 225.00 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 |
| 250.00 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 |
| 275.00 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 |
| 300.00 | 9-10 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-6 | 10-7 | 10-7 | 10-8 |
| 325.00 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 | 12-6 |
| 350.00 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 |
| 375.00 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-6 | 16-7 | 16-8 |
| 400.00 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-6 | 18-8 | 18-9 | 18-11 | 19-0 |
| 425.00 | 19-10 | 20-1 | 20-3 | 20-5 | 20-8 | 20-10 | 21-1 | 21-2 | 21-4 | 21-6 |
| 450.00 | 22-3 | 22-6 | 22-9 | 22-11 | 23-2 | 23-5 | 23-7 | 23-9 | 23-11 | 24-1 |
| 475.00 | 24-10 | 25-1 | 25-4 | 25-7 | 25-10 | 26-1 | 26-4 | 26-6 | 26-8 | 26-10 |
| 500.00 | 27-6 | 27-9 | 28-1 | 28-4 | 28-7 | 28-11 | 29-2 | 29-5 | 29-7 | 29-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 |
| 275.00 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 |
| 300.00 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 |
| 325.00 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 |
| 350.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 |
| 375.00 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 |
| 400.00 | 18-3 | 18-5 | 18-6 | 18-7 | 18-9 | 18-10 | 18-11 | 19-1 | 19-2 | 19-3 |
| 425.00 | 20-8 | 20-9 | 20-11 | 21-0 | 21-2 | 21-3 | 21-5 | 21-6 | 21-8 | 21-9 |
| 450.00 | 23-2 | 23-3 | 23-5 | 23-7 | 23-9 | 23-10 | 24-0 | 24-2 | 24-3 | 24-5 |
| 475.00 | 25-10 | 25-11 | 26-1 | 26-3 | 26-5 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 |
| 500.00 | 28-7 | 28-9 | 28-11 | 29-2 | 29-4 | 29-6 | 29-8 | 29-10 | 30-0 | 30-2 |
| 525.00 | 31-6 | 31-9 | 31-11 | 32-2 | 32-4 | 32-6 | 32-9 | 32-11 | 33-1 | 33-4 |
| 550.00 | 34-8 | 34-10 | 35-1 | 35-3 | 35-6 | 35-9 | 35-11 | 36-2 | 36-4 | 36-7 |
| 575.00 | 37-10 | 38-1 | 38-4 | 38-7 | 38-10 | 39-1 | 39-3 | 39-6 | 39-9 | 40-0 |
| 600.00 | 41-3 | 41-6 | 41-9 | 42-0 | 42-4 | 42-7 | 42-10 | 43-1 | 43-4 | 43-7 |
| 625.00 | 44-9 | 45-1 | 45-4 | 45-8 | 45-11 | 46-2 | 46-6 | 46-9 | 47-0 | 47-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 |
| 275.00 | 8-9 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 |
| 300.00 | 10-5 | 10-5 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 |
| 325.00 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 |
| 350.00 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-9 | 14-10 |
| 375.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 |
| 400.00 | 18-6 | 18-7 | 18-9 | 18-10 | 18-11 | 19-0 | 19-2 | 19-3 | 19-4 | 19-4 |
| 425.00 | 20-11 | 21-0 | 21-2 | 21-3 | 21-5 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 |
| 450.00 | 23-5 | 23-7 | 23-8 | 23-10 | 24-0 | 24-1 | 24-3 | 24-4 | 24-5 | 24-6 |
| 475.00 | 26-1 | 26-3 | 26-5 | 26-7 | 26-9 | 26-11 | 27-0 | 27-2 | 27-3 | 27-4 |
| 500.00 | 28-11 | 29-1 | 29-3 | 29-5 | 29-8 | 29-10 | 30-0 | 30-1 | 30-3 | 30-4 |
| 525.00 | 31-11 | 32-1 | 32-4 | 32-6 | 32-8 | 32-10 | 33-1 | 33-2 | 33-4 | 33-5 |
| 550.00 | 35-0 | 35-3 | 35-6 | 35-8 | 35-11 | 36-1 | 36-4 | 36-5 | 36-7 | 36-9 |
| 575.00 | 38-4 | 38-7 | 38-9 | 39-0 | 39-3 | 39-6 | 39-8 | 39-10 | 40-0 | 40-2 |
| 600.00 | 41-9 | 42-0 | 42-3 | 42-6 | 42-9 | 43-0 | 43-3 | 43-5 | 43-7 | 43-9 |
| 625.00 | 45-4 | 45-7 | 45-10 | 46-2 | 46-5 | 46-8 | 46-11 | 47-2 | 47-4 | 47-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS



OH806.33

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1/0 - 6/1 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION

1240 LB TENSION ---------- 807.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1240 LB TENSION ---------- 807.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1240 LB TENSION ---------- 807.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1240 LB TENSION ---------- 807.26


TABLE OF CONTENTS

**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



1/0 - 6/1 ACSR/AW TABLE OF CONTENTS

OH807.1

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.299 | 0.34 | 1084 | 0.3 | 1240* |
| 25 | 0 | 0 | 0 | 0.138 | 0.16 | 1057 | 0.14 | 1225 |
| 30 | 0 | 0 | 0 | 0.138 | 0.17 | 999 | 0.15 | 1186 |
| 40 | 0 | 0 | 0 | 0.138 | 0.2 | 882 | 0.16 | 1105 |
| 50 | 0 | 0 | 0 | 0.138 | 0.22 | 767 | 0.17 | 1023 |
| 60 | 0 | 0 | 0 | 0.138 | 0.26 | 654 | 0.18 | 939 |
| 70 | 0 | 0 | 0 | 0.138 | 0.32 | 544 | 0.2 | 854 |
| 80 | 0 | 0 | 0 | 0.138 | 0.39 | 441 | 0.22 | 767 |
| 90 | 0 | 0 | 0 | 0.138 | 0.49 | 349 | 0.25 | 679 |
| 100 | 0 | 0 | 0 | 0.138 | 0.6 | 289 | 0.29 | 591 |
| 110 | 0 | 0 | 0 | 0.138 | 0.65 | 267 | 0.34 | 503 |
| 120 | 0 | 0 | 0 | 0.138 | 0.7 | 246 | 0.41 | 419 |
| 130 | 0 | 0 | 0 | 0.138 | 0.76 | 227 | 0.51 | 341 |
| 167 | 0 | 0 | 0 | 0.138 | 1.01 | 170 | 0.92 | 187 |
| 212 | 0 | 0 | 0 | 0.138 | 1.35 | 128 | 1.26 | 137 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.299 | 1.35 | 1110 | 1.21 | 1240* |
| 25 | 0 | 0 | 0 | 0.138 | 0.68 | 1011 | 0.58 | 1182 |
| 30 | 0 | 0 | 0 | 0.138 | 0.72 | 955 | 0.6 | 1143 |
| 40 | 0 | 0 | 0 | 0.138 | 0.81 | 847 | 0.65 | 1064 |
| 50 | 0 | 0 | 0 | 0.138 | 0.93 | 743 | 0.7 | 984 |
| 60 | 0 | 0 | 0 | 0.138 | 1.07 | 645 | 0.76 | 903 |
| 70 | 0 | 0 | 0 | 0.138 | 1.24 | 555 | 0.84 | 822 |
| 80 | 0 | 0 | 0 | 0.138 | 1.45 | 477 | 0.93 | 742 |
| 90 | 0 | 0 | 0 | 0.138 | 1.68 | 411 | 1.04 | 663 |
| 100 | 0 | 0 | 0 | 0.138 | 1.93 | 358 | 1.17 | 588 |
| 110 | 0 | 0 | 0 | 0.138 | 2.17 | 318 | 1.34 | 517 |
| 120 | 0 | 0 | 0 | 0.138 | 2.28 | 303 | 1.52 | 453 |
| 130 | 0 | 0 | 0 | 0.138 | 2.39 | 289 | 1.74 | 398 |
| 167 | 0 | 0 | 0 | 0.138 | 2.83 | 244 | 2.61 | 265 |
| 212 | 0 | 0 | 0 | 0.138 | 3.37 | 205 | 3.23 | 214 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.299 | 2.96 | 1138 | 2.71 | 1240* |
| 25 | 0 | 0 | 0 | 0.138 | 1.65 | 941 | 1.39 | 1114 |
| 30 | 0 | 0 | 0 | 0.138 | 1.74 | 892 | 1.44 | 1076 |
| 40 | 0 | 0 | 0 | 0.138 | 1.95 | 798 | 1.55 | 1000 |
| 50 | 0 | 0 | 0 | 0.138 | 2.18 | 711 | 1.68 | 925 |
| 60 | 0 | 0 | 0 | 0.138 | 2.45 | 633 | 1.82 | 851 |
| 70 | 0 | 0 | 0 | 0.138 | 2.75 | 565 | 1.99 | 779 |
| 80 | 0 | 0 | 0 | 0.138 | 3.07 | 506 | 2.19 | 710 |
| 90 | 0 | 0 | 0 | 0.138 | 3.4 | 457 | 2.41 | 644 |
| 100 | 0 | 0 | 0 | 0.138 | 3.74 | 416 | 2.66 | 584 |
| 110 | 0 | 0 | 0 | 0.138 | 4.07 | 382 | 2.93 | 530 |
| 120 | 0 | 0 | 0 | 0.138 | 4.4 | 353 | 3.22 | 482 |
| 130 | 0 | 0 | 0 | 0.138 | 4.6 | 338 | 3.53 | 441 |
| 167 | 0 | 0 | 0 | 0.138 | 5.18 | 300 | 4.67 | 333 |
| 212 | 0 | 0 | 0 | 0.138 | 5.89 | 264 | 5.73 | 271 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.299 | 5.15 | 1161 | 4.83 | 1240* |
| 25 | 0 | 0 | 0 | 0.138 | 3.2 | 863 | 2.69 | 1027 |
| 30 | 0 | 0 | 0 | 0.138 | 3.36 | 822 | 2.78 | 993 |
| 40 | 0 | 0 | 0 | 0.138 | 3.7 | 747 | 2.99 | 924 |
| 50 | 0 | 0 | 0 | 0.138 | 4.06 | 680 | 3.22 | 858 |
| 60 | 0 | 0 | 0 | 0.138 | 4.45 | 621 | 3.48 | 794 |
| 70 | 0 | 0 | 0 | 0.138 | 4.84 | 570 | 3.76 | 734 |
| 80 | 0 | 0 | 0 | 0.138 | 5.25 | 526 | 4.07 | 678 |
| 90 | 0 | 0 | 0 | 0.138 | 5.65 | 488 | 4.4 | 627 |
| 100 | 0 | 0 | 0 | 0.138 | 6.06 | 456 | 4.75 | 581 |
| 110 | 0 | 0 | 0 | 0.138 | 6.45 | 428 | 5.11 | 540 |
| 120 | 0 | 0 | 0 | 0.138 | 6.84 | 404 | 5.48 | 504 |
| 130 | 0 | 0 | 0 | 0.138 | 7.22 | 383 | 5.86 | 472 |
| 167 | 0 | 0 | 0 | 0.138 | 8.04 | 344 | 7.22 | 383 |
| 212 | 0 | 0 | 0 | 0.138 | 8.89 | 311 | 8.72 | 317 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.299 | 7.93 | 1180 | 7.54 | 1240* |
| 25 | 0 | 0 | 0 | 0.138 | 5.45 | 791 | 4.61 | 936 |
| 30 | 0 | 0 | 0 | 0.138 | 5.67 | 761 | 4.76 | 906 |
| 40 | 0 | 0 | 0 | 0.138 | 6.13 | 704 | 5.09 | 848 |
| 50 | 0 | 0 | 0 | 0.138 | 6.59 | 655 | 5.44 | 793 |
| 60 | 0 | 0 | 0 | 0.138 | 7.06 | 611 | 5.81 | 743 |
| 70 | 0 | 0 | 0 | 0.138 | 7.53 | 573 | 6.2 | 696 |
| 80 | 0 | 0 | 0 | 0.138 | 8 | 539 | 6.61 | 653 |
| 90 | 0 | 0 | 0 | 0.138 | 8.47 | 510 | 7.03 | 614 |
| 100 | 0 | 0 | 0 | 0.138 | 8.92 | 484 | 7.45 | 579 |
| 110 | 0 | 0 | 0 | 0.138 | 9.37 | 461 | 7.88 | 548 |
| 120 | 0 | 0 | 0 | 0.138 | 9.81 | 440 | 8.31 | 519 |
| 130 | 0 | 0 | 0 | 0.138 | 10.23 | 422 | 8.74 | 494 |
| 167 | 0 | 0 | 0 | 0.138 | 11.4 | 379 | 10.28 | 420 |
| 212 | 0 | 0 | 0 | 0.138 | 12.38 | 349 | 12.02 | 359 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 |
| 200.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-5 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-0 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-7 | 2-0 | 2-5 | 2-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 |
| 250.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-8 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-2 | 2-5 | 2-9 |
| 250.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 3-0 | 3-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 225.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 |
| 275.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 |
| 300.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 |
| 325.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 |
| 350.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 4-0 |
| 375.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-2 | 4-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 |
| 250.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 |
| 275.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 |
| 300.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 |
| 325.00 | 1-10 | 2-1 | 2-3 | 2-7 | 2-11 | 3-3 | 3-7 | 4-0 | 4-5 | 4-9 |
| 350.00 | 2-2 | 2-4 | 2-8 | 3-0 | 3-4 | 3-9 | 4-2 | 4-8 | 5-1 | 5-6 |
| 375.00 | 2-5 | 2-9 | 3-0 | 3-5 | 3-10 | 4-4 | 4-10 | 5-4 | 5-10 | 6-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 225.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 275.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 300.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 |
| 325.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 |
| 350.00 | 2-0 | 2-2 | 2-3 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-8 | 3-11 |
| 375.00 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 |
| 400.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 |
| 425.00 | 2-11 | 3-2 | 3-4 | 3-8 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-9 |
| 450.00 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-2 | 5-7 | 6-0 | 6-6 |
| 475.00 | 3-8 | 3-11 | 4-3 | 4-6 | 4-11 | 5-4 | 5-9 | 6-2 | 6-8 | 7-3 |
| 500.00 | 4-1 | 4-4 | 4-8 | 5-0 | 5-5 | 5-11 | 6-4 | 6-11 | 7-5 | 8-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 |
| 250.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 |
| 275.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-1 |
| 300.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 |
| 325.00 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 |
| 350.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 | 4-11 |
| 375.00 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-8 |
| 400.00 | 3-1 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 | 6-1 | 6-5 |
| 425.00 | 3-5 | 3-9 | 4-2 | 4-7 | 5-0 | 5-6 | 5-11 | 6-5 | 6-10 | 7-3 |
| 450.00 | 3-10 | 4-3 | 4-8 | 5-2 | 5-8 | 6-2 | 6-8 | 7-2 | 7-8 | 8-2 |
| 475.00 | 4-4 | 4-9 | 5-3 | 5-9 | 6-3 | 6-10 | 7-5 | 8-0 | 8-7 | 9-1 |
| 500.00 | 4-9 | 5-3 | 5-9 | 6-4 | 6-11 | 7-7 | 8-2 | 8-10 | 9-6 | 10-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |
| 275.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 |
| 300.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 |
| 325.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 |
| 350.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 |
| 375.00 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 |
| 400.00 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-1 |
| 425.00 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-5 | 5-8 |
| 450.00 | 3-7 | 3-10 | 4-1 | 4-5 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-5 |
| 475.00 | 4-0 | 4-4 | 4-7 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 | 6-9 | 7-1 |
| 500.00 | 4-6 | 4-9 | 5-1 | 5-5 | 5-10 | 6-2 | 6-7 | 7-0 | 7-5 | 7-11 |
| 525.00 | 4-11 | 5-3 | 5-7 | 6-0 | 6-5 | 6-10 | 7-3 | 7-9 | 8-3 | 8-8 |
| 550.00 | 5-5 | 5-9 | 6-2 | 6-7 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 |
| 575.00 | 5-11 | 6-4 | 6-9 | 7-2 | 7-8 | 8-2 | 8-9 | 9-4 | 9-10 | 10-5 |
| 600.00 | 6-5 | 6-10 | 7-4 | 7-10 | 8-4 | 8-11 | 9-6 | 10-1 | 10-9 | 11-4 |
| 625.00 | 7-0 | 7-5 | 7-11 | 8-6 | 9-1 | 9-8 | 10-4 | 11-0 | 11-8 | 12-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 |
| 275.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 |
| 300.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 |
| 325.00 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 |
| 350.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 |
| 375.00 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 |
| 400.00 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-9 | 6-0 |
| 425.00 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 |
| 450.00 | 4-3 | 4-7 | 5-0 | 5-4 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 |
| 475.00 | 4-9 | 5-1 | 5-6 | 5-11 | 6-4 | 6-10 | 7-3 | 7-8 | 8-1 | 8-5 |
| 500.00 | 5-3 | 5-8 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-6 | 8-11 | 9-4 |
| 525.00 | 5-9 | 6-3 | 6-9 | 7-3 | 7-9 | 8-4 | 8-10 | 9-4 | 9-10 | 10-4 |
| 550.00 | 6-4 | 6-10 | 7-5 | 8-0 | 8-7 | 9-1 | 9-8 | 10-3 | 10-10 | 11-4 |
| 575.00 | 6-11 | 7-6 | 8-1 | 8-9 | 9-4 | 10-0 | 10-7 | 11-2 | 11-10 | 12-5 |
| 600.00 | 7-7 | 8-2 | 8-10 | 9-6 | 10-2 | 10-10 | 11-6 | 12-2 | 12-10 | 13-6 |
| 625.00 | 8-2 | 8-10 | 9-7 | 10-4 | 11-0 | 11-9 | 12-6 | 13-3 | 13-11 | 14-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.384 | 0.49 | 970 | 0.39 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 0.14 | 1260 | 0.12 | 1444 |
| 30 | 0 | 0 | 0 | 0.138 | 0.15 | 1142 | 0.13 | 1369 |
| 40 | 0 | 0 | 0 | 0.138 | 0.17 | 1025 | 0.13 | 1292 |
| 50 | 0 | 0 | 0 | 0.138 | 0.19 | 909 | 0.14 | 1213 |
| 60 | 0 | 0 | 0 | 0.138 | 0.22 | 793 | 0.15 | 1132 |
| 70 | 0 | 0 | 0 | 0.138 | 0.25 | 679 | 0.16 | 1050 |
| 80 | 0 | 0 | 0 | 0.138 | 0.3 | 569 | 0.18 | 965 |
| 90 | 0 | 0 | 0 | 0.138 | 0.37 | 464 | 0.2 | 880 |
| 100 | 0 | 0 | 0 | 0.138 | 0.47 | 368 | 0.22 | 792 |
| 110 | 0 | 0 | 0 | 0.138 | 0.52 | 334 | 0.25 | 704 |
| 120 | 0 | 0 | 0 | 0.138 | 0.56 | 310 | 0.28 | 615 |
| 130 | 0 | 0 | 0 | 0.138 | 0.6 | 287 | 0.33 | 526 |
| 167 | 0 | 0 | 0 | 0.138 | 0.81 | 214 | 0.69 | 250 |
| 212 | 0 | 0 | 0 | 0.138 | 1.13 | 153 | 1.01 | 171 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.384 | 1.83 | 1050 | 1.55 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 0.58 | 1186 | 0.51 | 1364 |
| 30 | 0 | 0 | 0 | 0.138 | 0.64 | 1073 | 0.54 | 1289 |
| 40 | 0 | 0 | 0 | 0.138 | 0.72 | 962 | 0.57 | 1212 |
| 50 | 0 | 0 | 0 | 0.138 | 0.81 | 853 | 0.61 | 1133 |
| 60 | 0 | 0 | 0 | 0.138 | 0.92 | 748 | 0.66 | 1053 |
| 70 | 0 | 0 | 0 | 0.138 | 1.06 | 650 | 0.71 | 973 |
| 80 | 0 | 0 | 0 | 0.138 | 1.23 | 560 | 0.77 | 891 |
| 90 | 0 | 0 | 0 | 0.138 | 1.44 | 481 | 0.85 | 810 |
| 100 | 0 | 0 | 0 | 0.138 | 1.67 | 414 | 0.95 | 729 |
| 110 | 0 | 0 | 0 | 0.138 | 1.91 | 361 | 1.06 | 650 |
| 120 | 0 | 0 | 0 | 0.138 | 2.02 | 341 | 1.2 | 575 |
| 130 | 0 | 0 | 0 | 0.138 | 2.13 | 324 | 1.37 | 505 |
| 167 | 0 | 0 | 0 | 0.138 | 2.55 | 271 | 2.18 | 317 |
| 212 | 0 | 0 | 0 | 0.138 | 3.09 | 224 | 2.92 | 237 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.384 | 3.85 | 1121 | 3.48 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 1.46 | 1063 | 1.26 | 1234 |
| 30 | 0 | 0 | 0 | 0.138 | 1.62 | 960 | 1.34 | 1159 |
| 40 | 0 | 0 | 0 | 0.138 | 1.8 | 862 | 1.43 | 1084 |
| 50 | 0 | 0 | 0 | 0.138 | 2.02 | 770 | 1.54 | 1008 |
| 60 | 0 | 0 | 0 | 0.138 | 2.26 | 686 | 1.67 | 932 |
| 70 | 0 | 0 | 0 | 0.138 | 2.54 | 611 | 1.81 | 858 |
| 80 | 0 | 0 | 0 | 0.138 | 2.85 | 545 | 1.98 | 785 |
| 90 | 0 | 0 | 0 | 0.138 | 3.17 | 490 | 2.17 | 715 |
| 100 | 0 | 0 | 0 | 0.138 | 3.5 | 443 | 2.39 | 649 |
| 110 | 0 | 0 | 0 | 0.138 | 3.84 | 405 | 2.64 | 588 |
| 120 | 0 | 0 | 0 | 0.138 | 4.17 | 372 | 2.91 | 534 |
| 130 | 0 | 0 | 0 | 0.138 | 4.38 | 355 | 3.2 | 485 |
| 167 | 0 | 0 | 0 | 0.138 | 4.96 | 313 | 4.34 | 358 |
| 212 | 0 | 0 | 0 | 0.138 | 5.67 | 274 | 5.49 | 283 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.384 | 6.57 | 1170 | 6.2 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 3.05 | 907 | 2.59 | 1064 |
| 30 | 0 | 0 | 0 | 0.138 | 3.35 | 824 | 2.78 | 994 |
| 40 | 0 | 0 | 0 | 0.138 | 3.69 | 748 | 2.98 | 926 |
| 50 | 0 | 0 | 0 | 0.138 | 4.05 | 681 | 3.21 | 859 |
| 60 | 0 | 0 | 0 | 0.138 | 4.44 | 622 | 3.47 | 796 |
| 70 | 0 | 0 | 0 | 0.138 | 4.84 | 571 | 3.75 | 736 |
| 80 | 0 | 0 | 0 | 0.138 | 5.24 | 527 | 4.06 | 680 |
| 90 | 0 | 0 | 0 | 0.138 | 5.65 | 489 | 4.39 | 629 |
| 100 | 0 | 0 | 0 | 0.138 | 6.05 | 457 | 4.74 | 582 |
| 110 | 0 | 0 | 0 | 0.138 | 6.45 | 429 | 5.1 | 541 |
| 120 | 0 | 0 | 0 | 0.138 | 6.84 | 404 | 5.47 | 505 |
| 130 | 0 | 0 | 0 | 0.138 | 7.22 | 383 | 5.85 | 472 |
| 167 | 0 | 0 | 0 | 0.138 | 8.03 | 344 | 7.21 | 383 |
| 212 | 0 | 0 | 0 | 0.138 | 8.89 | 311 | 8.71 | 317 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.384 | 10.02 | 1199 | 9.69 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 5.69 | 758 | 4.88 | 885 |
| 30 | 0 | 0 | 0 | 0.138 | 6.14 | 703 | 5.21 | 828 |
| 40 | 0 | 0 | 0 | 0.138 | 6.61 | 653 | 5.56 | 775 |
| 50 | 0 | 0 | 0 | 0.138 | 7.08 | 610 | 5.94 | 726 |
| 60 | 0 | 0 | 0 | 0.138 | 7.55 | 572 | 6.34 | 681 |
| 70 | 0 | 0 | 0 | 0.138 | 8.02 | 538 | 6.75 | 639 |
| 80 | 0 | 0 | 0 | 0.138 | 8.48 | 509 | 7.17 | 602 |
| 90 | 0 | 0 | 0 | 0.138 | 8.94 | 483 | 7.6 | 568 |
| 100 | 0 | 0 | 0 | 0.138 | 9.38 | 460 | 8.02 | 538 |
| 110 | 0 | 0 | 0 | 0.138 | 9.82 | 440 | 8.45 | 511 |
| 120 | 0 | 0 | 0 | 0.138 | 10.25 | 421 | 8.88 | 486 |
| 130 | 0 | 0 | 0 | 0.138 | 10.67 | 405 | 9.3 | 464 |
| 167 | 0 | 0 | 0 | 0.138 | 11.8 | 366 | 10.8 | 400 |
| 212 | 0 | 0 | 0 | 0.138 | 12.77 | 339 | 12.5 | 346 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 1-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-6 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-2 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-7 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-3 | 1-6 | 1-10 | 2-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 250.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 |
| 175.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-5 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 3-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 |
| 275.00 | 1-1 | 1-2 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 |
| 300.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 |
| 325.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 |
| 350.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-3 | 3-7 |
| 375.00 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 |
| 250.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 |
| 275.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 |
| 300.00 | 1-6 | 1-7 | 1-10 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 |
| 325.00 | 1-9 | 1-11 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-9 | 4-1 | 4-6 |
| 350.00 | 2-0 | 2-2 | 2-5 | 2-9 | 3-1 | 3-6 | 3-11 | 4-4 | 4-9 | 5-3 |
| 375.00 | 2-3 | 2-6 | 2-10 | 3-2 | 3-6 | 4-0 | 4-5 | 4-11 | 5-6 | 6-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 225.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 275.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 300.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 |
| 325.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 |
| 350.00 | 2-0 | 2-2 | 2-3 | 2-6 | 2-8 | 2-10 | 3-1 | 3-4 | 3-8 | 3-11 |
| 375.00 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 |
| 400.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 |
| 425.00 | 2-11 | 3-2 | 3-4 | 3-8 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-9 |
| 450.00 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-2 | 5-7 | 6-0 | 6-6 |
| 475.00 | 3-8 | 3-11 | 4-2 | 4-6 | 4-11 | 5-4 | 5-9 | 6-2 | 6-8 | 7-2 |
| 500.00 | 4-1 | 4-4 | 4-8 | 5-0 | 5-5 | 5-10 | 6-4 | 6-10 | 7-5 | 8-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 250.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 |
| 275.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-1 |
| 300.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 |
| 325.00 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 |
| 350.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 | 4-11 |
| 375.00 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-8 |
| 400.00 | 3-1 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 | 6-1 | 6-5 |
| 425.00 | 3-5 | 3-9 | 4-2 | 4-7 | 5-0 | 5-6 | 5-11 | 6-5 | 6-10 | 7-3 |
| 450.00 | 3-10 | 4-3 | 4-8 | 5-2 | 5-7 | 6-1 | 6-8 | 7-2 | 7-8 | 8-2 |
| 475.00 | 4-4 | 4-9 | 5-2 | 5-9 | 6-3 | 6-10 | 7-5 | 8-0 | 8-6 | 9-1 |
| 500.00 | 4-9 | 5-3 | 5-9 | 6-4 | 6-11 | 7-7 | 8-2 | 8-10 | 9-5 | 10-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 |
| 275.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 |
| 300.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 325.00 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 |
| 350.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 |
| 375.00 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 |
| 400.00 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 |
| 425.00 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-11 | 5-2 | 5-6 | 5-10 | 6-1 |
| 450.00 | 3-11 | 4-3 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 |
| 475.00 | 4-5 | 4-8 | 5-0 | 5-4 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-8 |
| 500.00 | 4-11 | 5-2 | 5-7 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 |
| 525.00 | 5-5 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-11 | 8-4 | 8-10 | 9-4 |
| 550.00 | 5-11 | 6-4 | 6-9 | 7-2 | 7-8 | 8-2 | 8-8 | 9-2 | 9-9 | 10-3 |
| 575.00 | 6-5 | 6-11 | 7-4 | 7-10 | 8-5 | 8-11 | 9-6 | 10-1 | 10-7 | 11-2 |
| 600.00 | 7-0 | 7-6 | 8-0 | 8-7 | 9-2 | 9-9 | 10-4 | 10-11 | 11-7 | 12-2 |
| 625.00 | 7-7 | 8-2 | 8-8 | 9-3 | 9-11 | 10-7 | 11-2 | 11-10 | 12-6 | 13-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 275.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 |
| 300.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 |
| 325.00 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 |
| 350.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 |
| 375.00 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 |
| 400.00 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 |
| 425.00 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-10 | 6-2 | 6-5 | 6-9 | 7-1 |
| 450.00 | 4-7 | 5-0 | 5-4 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 |
| 475.00 | 5-2 | 5-7 | 6-0 | 6-5 | 6-10 | 7-3 | 7-8 | 8-1 | 8-6 | 8-10 |
| 500.00 | 5-8 | 6-2 | 6-7 | 7-1 | 7-7 | 8-0 | 8-6 | 8-11 | 9-5 | 9-10 |
| 525.00 | 6-3 | 6-9 | 7-3 | 7-10 | 8-4 | 8-10 | 9-4 | 9-10 | 10-4 | 10-10 |
| 550.00 | 6-11 | 7-5 | 8-0 | 8-7 | 9-2 | 9-8 | 10-3 | 10-10 | 11-4 | 11-11 |
| 575.00 | 7-6 | 8-1 | 8-9 | 9-4 | 10-0 | 10-7 | 11-3 | 11-10 | 12-5 | 13-0 |
| 600.00 | 8-2 | 8-10 | 9-6 | 10-2 | 10-10 | 11-7 | 12-3 | 12-10 | 13-6 | 14-2 |
| 625.00 | 8-11 | 9-7 | 10-4 | 11-1 | 11-10 | 12-6 | 13-3 | 14-0 | 14-8 | 15-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.629 | 0.76 | 1029 | 0.63 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 0.14 | 1220 | 0.12 | 1394 |
| 30 | 0 | 0 | 0 | 0.138 | 0.16 | 1103 | 0.13 | 1318 |
| 40 | 0 | 0 | 0 | 0.138 | 0.18 | 986 | 0.14 | 1240 |
| 50 | 0 | 0 | 0 | 0.138 | 0.2 | 869 | 0.15 | 1160 |
| 60 | 0 | 0 | 0 | 0.138 | 0.23 | 754 | 0.16 | 1078 |
| 70 | 0 | 0 | 0 | 0.138 | 0.27 | 641 | 0.17 | 995 |
| 80 | 0 | 0 | 0 | 0.138 | 0.32 | 532 | 0.19 | 910 |
| 90 | 0 | 0 | 0 | 0.138 | 0.4 | 430 | 0.21 | 823 |
| 100 | 0 | 0 | 0 | 0.138 | 0.51 | 340 | 0.23 | 736 |
| 110 | 0 | 0 | 0 | 0.138 | 0.55 | 314 | 0.27 | 647 |
| 120 | 0 | 0 | 0 | 0.138 | 0.59 | 291 | 0.31 | 558 |
| 130 | 0 | 0 | 0 | 0.138 | 0.64 | 269 | 0.37 | 471 |
| 167 | 0 | 0 | 0 | 0.138 | 0.86 | 200 | 0.77 | 224 |
| 212 | 0 | 0 | 0 | 0.138 | 1.19 | 145 | 1.08 | 160 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.629 | 2.71 | 1163 | 2.54 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 0.68 | 1017 | 0.59 | 1161 |
| 30 | 0 | 0 | 0 | 0.138 | 0.76 | 906 | 0.64 | 1083 |
| 40 | 0 | 0 | 0 | 0.138 | 0.86 | 800 | 0.69 | 1003 |
| 50 | 0 | 0 | 0 | 0.138 | 0.99 | 698 | 0.75 | 923 |
| 60 | 0 | 0 | 0 | 0.138 | 1.14 | 603 | 0.82 | 842 |
| 70 | 0 | 0 | 0 | 0.138 | 1.33 | 519 | 0.91 | 762 |
| 80 | 0 | 0 | 0 | 0.138 | 1.55 | 446 | 1.01 | 683 |
| 90 | 0 | 0 | 0 | 0.138 | 1.79 | 386 | 1.14 | 607 |
| 100 | 0 | 0 | 0 | 0.138 | 2.04 | 338 | 1.29 | 534 |
| 110 | 0 | 0 | 0 | 0.138 | 2.28 | 303 | 1.47 | 469 |
| 120 | 0 | 0 | 0 | 0.138 | 2.39 | 289 | 1.68 | 411 |
| 130 | 0 | 0 | 0 | 0.138 | 2.51 | 275 | 1.9 | 363 |
| 167 | 0 | 0 | 0 | 0.138 | 2.95 | 234 | 2.78 | 248 |
| 212 | 0 | 0 | 0 | 0.138 | 3.49 | 198 | 3.36 | 205 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.629 | 5.75 | 1232 | 5.71 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 2.28 | 681 | 1.95 | 795 |
| 30 | 0 | 0 | 0 | 0.138 | 2.56 | 606 | 2.14 | 726 |
| 40 | 0 | 0 | 0 | 0.138 | 2.87 | 542 | 2.35 | 661 |
| 50 | 0 | 0 | 0 | 0.138 | 3.19 | 487 | 2.59 | 600 |
| 60 | 0 | 0 | 0 | 0.138 | 3.52 | 441 | 2.85 | 545 |
| 70 | 0 | 0 | 0 | 0.138 | 3.86 | 403 | 3.13 | 496 |
| 80 | 0 | 0 | 0 | 0.138 | 4.19 | 371 | 3.43 | 453 |
| 90 | 0 | 0 | 0 | 0.138 | 4.52 | 344 | 3.74 | 416 |
| 100 | 0 | 0 | 0 | 0.138 | 4.83 | 322 | 4.05 | 384 |
| 110 | 0 | 0 | 0 | 0.138 | 5.14 | 302 | 4.35 | 357 |
| 120 | 0 | 0 | 0 | 0.138 | 5.44 | 286 | 4.66 | 334 |
| 130 | 0 | 0 | 0 | 0.138 | 5.62 | 277 | 4.96 | 314 |
| 167 | 0 | 0 | 0 | 0.138 | 6.19 | 251 | 5.99 | 259 |
| 212 | 0 | 0 | 0 | 0.138 | 6.87 | 227 | 6.77 | 230 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.629 | 10.17 | 1240 | 10.17 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 6.32 | 437 | 5.59 | 494 |
| 30 | 0 | 0 | 0 | 0.138 | 6.72 | 411 | 5.96 | 464 |
| 40 | 0 | 0 | 0 | 0.138 | 7.1 | 389 | 6.32 | 437 |
| 50 | 0 | 0 | 0 | 0.138 | 7.47 | 370 | 6.69 | 413 |
| 60 | 0 | 0 | 0 | 0.138 | 7.83 | 353 | 7.05 | 392 |
| 70 | 0 | 0 | 0 | 0.138 | 8.19 | 338 | 7.4 | 373 |
| 80 | 0 | 0 | 0 | 0.138 | 8.53 | 324 | 7.75 | 357 |
| 90 | 0 | 0 | 0 | 0.138 | 8.87 | 312 | 8.09 | 342 |
| 100 | 0 | 0 | 0 | 0.138 | 9.19 | 301 | 8.42 | 328 |
| 110 | 0 | 0 | 0 | 0.138 | 9.51 | 291 | 8.74 | 316 |
| 120 | 0 | 0 | 0 | 0.138 | 9.82 | 282 | 9.06 | 305 |
| 130 | 0 | 0 | 0 | 0.138 | 10.04 | 276 | 9.37 | 295 |
| 167 | 0 | 0 | 0 | 0.138 | 10.69 | 259 | 10.47 | 264 |
| 212 | 0 | 0 | 0 | 0.138 | 11.45 | 242 | 11.36 | 244 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.629 | 15.91 | 1240 | 15.91 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 12.13 | 356 | 11.34 | 381 |
| 30 | 0 | 0 | 0 | 0.138 | 12.5 | 346 | 11.71 | 369 |
| 40 | 0 | 0 | 0 | 0.138 | 12.87 | 336 | 12.08 | 358 |
| 50 | 0 | 0 | 0 | 0.138 | 13.23 | 327 | 12.44 | 348 |
| 60 | 0 | 0 | 0 | 0.138 | 13.58 | 318 | 12.79 | 338 |
| 70 | 0 | 0 | 0 | 0.138 | 13.93 | 311 | 13.14 | 329 |
| 80 | 0 | 0 | 0 | 0.138 | 14.27 | 303 | 13.48 | 321 |
| 90 | 0 | 0 | 0 | 0.138 | 14.6 | 296 | 13.81 | 313 |
| 100 | 0 | 0 | 0 | 0.138 | 14.92 | 290 | 14.14 | 306 |
| 110 | 0 | 0 | 0 | 0.138 | 15.24 | 284 | 14.47 | 299 |
| 120 | 0 | 0 | 0 | 0.138 | 15.56 | 278 | 14.79 | 293 |
| 130 | 0 | 0 | 0 | 0.138 | 15.78 | 274 | 15.1 | 287 |
| 167 | 0 | 0 | 0 | 0.138 | 16.47 | 263 | 16.22 | 267 |
| 212 | 0 | 0 | 0 | 0.138 | 17.28 | 251 | 17.19 | 252 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-10 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-3 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 1-8 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-6 |
| 225.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-8 | 1-10 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 | 2-1 | 2-3 |
| 225.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 2-0 | 2-3 | 2-7 | 2-11 |
| 250.00 | 1-1 | 1-2 | 1-4 | 1-7 | 1-9 | 2-1 | 2-5 | 2-10 | 3-2 | 3-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 |
| 225.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 250.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 |
| 275.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 |
| 300.00 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-9 | 4-1 | 4-4 |
| 325.00 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-0 | 4-5 | 4-9 | 5-1 |
| 350.00 | 2-8 | 2-11 | 3-2 | 3-6 | 3-11 | 4-3 | 4-8 | 5-1 | 5-6 | 5-11 |
| 375.00 | 3-1 | 3-4 | 3-8 | 4-1 | 4-5 | 4-11 | 5-4 | 5-10 | 6-4 | 6-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 200.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 |
| 225.00 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 |
| 250.00 | 1-7 | 1-9 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 |
| 275.00 | 1-11 | 2-2 | 2-5 | 2-8 | 3-0 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 |
| 300.00 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 |
| 325.00 | 2-8 | 3-0 | 3-4 | 3-9 | 4-2 | 4-6 | 4-11 | 5-4 | 5-8 | 6-0 |
| 350.00 | 3-1 | 3-6 | 3-11 | 4-4 | 4-10 | 5-3 | 5-8 | 6-2 | 6-7 | 7-0 |
| 375.00 | 3-7 | 4-0 | 4-6 | 5-0 | 5-6 | 6-0 | 6-7 | 7-1 | 7-7 | 8-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 |
| 250.00 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 |
| 275.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 300.00 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 |
| 325.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-7 | 5-9 |
| 350.00 | 4-3 | 4-7 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 |
| 375.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 |
| 400.00 | 5-7 | 5-11 | 6-4 | 6-8 | 7-1 | 7-5 | 7-9 | 8-1 | 8-5 | 8-9 |
| 425.00 | 6-4 | 6-9 | 7-2 | 7-7 | 7-11 | 8-4 | 8-9 | 9-2 | 9-6 | 9-10 |
| 450.00 | 7-1 | 7-6 | 8-0 | 8-6 | 8-11 | 9-4 | 9-10 | 10-3 | 10-8 | 11-1 |
| 475.00 | 7-11 | 8-5 | 8-11 | 9-5 | 9-11 | 10-5 | 10-11 | 11-5 | 11-11 | 12-4 |
| 500.00 | 8-9 | 9-4 | 9-11 | 10-5 | 11-0 | 11-7 | 12-1 | 12-8 | 13-2 | 13-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 225.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 |
| 250.00 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 |
| 275.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 |
| 300.00 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-4 |
| 325.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 |
| 350.00 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 |
| 375.00 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 | 7-10 | 8-1 | 8-4 |
| 400.00 | 6-4 | 6-9 | 7-1 | 7-6 | 7-10 | 8-2 | 8-6 | 8-10 | 9-2 | 9-6 |
| 425.00 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-8 | 10-0 | 10-5 | 10-9 |
| 450.00 | 8-0 | 8-6 | 9-0 | 9-5 | 9-11 | 10-4 | 10-10 | 11-3 | 11-8 | 12-0 |
| 475.00 | 8-11 | 9-6 | 10-0 | 10-6 | 11-1 | 11-7 | 12-0 | 12-6 | 13-0 | 13-5 |
| 500.00 | 9-11 | 10-6 | 11-1 | 11-8 | 12-3 | 12-10 | 13-4 | 13-10 | 14-4 | 14-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 275.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 300.00 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 |
| 325.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-1 |
| 350.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 |
| 375.00 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 | 7-11 | 8-2 |
| 400.00 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 | 8-5 | 8-7 | 8-10 | 9-1 | 9-3 |
| 425.00 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-5 |
| 450.00 | 9-2 | 9-6 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-2 | 11-5 | 11-9 |
| 475.00 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-10 | 12-2 | 12-6 | 12-9 | 13-1 |
| 500.00 | 11-4 | 11-9 | 12-1 | 12-5 | 12-9 | 13-2 | 13-6 | 13-10 | 14-2 | 14-6 |
| 525.00 | 12-6 | 12-11 | 13-4 | 13-9 | 14-1 | 14-6 | 14-10 | 15-3 | 15-7 | 15-11 |
| 550.00 | 13-9 | 14-2 | 14-7 | 15-1 | 15-6 | 15-11 | 16-4 | 16-9 | 17-1 | 17-6 |
| 575.00 | 15-0 | 15-6 | 16-0 | 16-5 | 16-11 | 17-5 | 17-10 | 18-3 | 18-9 | 19-2 |
| 600.00 | 16-4 | 16-10 | 17-5 | 17-11 | 18-5 | 18-11 | 19-5 | 19-11 | 20-5 | 20-10 |
| 625.00 | 17-9 | 18-4 | 18-11 | 19-5 | 20-0 | 20-6 | 21-1 | 21-7 | 22-1 | 22-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 300.00 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 |
| 325.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 |
| 350.00 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 |
| 375.00 | 6-10 | 7-0 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-5 | 8-7 |
| 400.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 |
| 425.00 | 8-9 | 9-0 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 |
| 450.00 | 9-10 | 10-2 | 10-5 | 10-9 | 11-0 | 11-3 | 11-7 | 11-10 | 12-1 | 12-4 |
| 475.00 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 | 12-7 | 12-10 | 13-2 | 13-6 | 13-9 |
| 500.00 | 12-2 | 12-6 | 12-10 | 13-3 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 |
| 525.00 | 13-4 | 13-9 | 14-2 | 14-7 | 15-0 | 15-4 | 15-9 | 16-1 | 16-5 | 16-10 |
| 550.00 | 14-8 | 15-2 | 15-7 | 16-0 | 16-5 | 16-10 | 17-3 | 17-8 | 18-1 | 18-5 |
| 575.00 | 16-1 | 16-7 | 17-0 | 17-6 | 18-0 | 18-5 | 18-11 | 19-4 | 19-9 | 20-2 |
| 600.00 | 17-6 | 18-0 | 18-7 | 19-1 | 19-7 | 20-1 | 20-7 | 21-0 | 21-6 | 22-0 |
| 625.00 | 19-0 | 19-7 | 20-1 | 20-8 | 21-3 | 21-9 | 22-4 | 22-10 | 23-4 | 23-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.054 | 1.16 | 1134 | 1.06 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 0.16 | 1102 | 0.14 | 1247 |
| 30 | 0 | 0 | 0 | 0.138 | 0.18 | 985 | 0.15 | 1168 |
| 40 | 0 | 0 | 0 | 0.138 | 0.2 | 868 | 0.16 | 1087 |
| 50 | 0 | 0 | 0 | 0.138 | 0.23 | 753 | 0.17 | 1005 |
| 60 | 0 | 0 | 0 | 0.138 | 0.27 | 641 | 0.19 | 920 |
| 70 | 0 | 0 | 0 | 0.138 | 0.32 | 531 | 0.21 | 835 |
| 80 | 0 | 0 | 0 | 0.138 | 0.4 | 429 | 0.23 | 748 |
| 90 | 0 | 0 | 0 | 0.138 | 0.51 | 339 | 0.26 | 660 |
| 100 | 0 | 0 | 0 | 0.138 | 0.61 | 283 | 0.3 | 572 |
| 110 | 0 | 0 | 0 | 0.138 | 0.66 | 261 | 0.36 | 485 |
| 120 | 0 | 0 | 0 | 0.138 | 0.72 | 241 | 0.43 | 401 |
| 130 | 0 | 0 | 0 | 0.138 | 0.78 | 222 | 0.53 | 326 |
| 167 | 0 | 0 | 0 | 0.138 | 1.03 | 167 | 0.95 | 182 |
| 212 | 0 | 0 | 0 | 0.138 | 1.37 | 126 | 1.28 | 135 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.054 | 4.26 | 1240 | 4.26 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 1.55 | 446 | 1.2 | 574 |
| 30 | 0 | 0 | 0 | 0.138 | 1.79 | 386 | 1.36 | 506 |
| 40 | 0 | 0 | 0 | 0.138 | 2.04 | 338 | 1.55 | 445 |
| 50 | 0 | 0 | 0 | 0.138 | 2.3 | 300 | 1.76 | 392 |
| 60 | 0 | 0 | 0 | 0.138 | 2.55 | 271 | 1.99 | 347 |
| 70 | 0 | 0 | 0 | 0.138 | 2.79 | 247 | 2.22 | 310 |
| 80 | 0 | 0 | 0 | 0.138 | 3.03 | 228 | 2.46 | 281 |
| 90 | 0 | 0 | 0 | 0.138 | 3.25 | 212 | 2.69 | 256 |
| 100 | 0 | 0 | 0 | 0.138 | 3.39 | 204 | 2.92 | 236 |
| 110 | 0 | 0 | 0 | 0.138 | 3.5 | 197 | 3.14 | 220 |
| 120 | 0 | 0 | 0 | 0.138 | 3.62 | 191 | 3.35 | 206 |
| 130 | 0 | 0 | 0 | 0.138 | 3.74 | 185 | 3.56 | 194 |
| 167 | 0 | 0 | 0 | 0.138 | 4.15 | 166 | 4.08 | 169 |
| 212 | 0 | 0 | 0 | 0.138 | 4.63 | 149 | 4.56 | 152 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.054 | 9.6 | 1240 | 9.6 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 7.06 | 221 | 6.48 | 240 |
| 30 | 0 | 0 | 0 | 0.138 | 7.29 | 213 | 6.73 | 231 |
| 40 | 0 | 0 | 0 | 0.138 | 7.53 | 207 | 6.97 | 223 |
| 50 | 0 | 0 | 0 | 0.138 | 7.75 | 201 | 7.2 | 216 |
| 60 | 0 | 0 | 0 | 0.138 | 7.98 | 195 | 7.43 | 209 |
| 70 | 0 | 0 | 0 | 0.138 | 8.19 | 190 | 7.65 | 203 |
| 80 | 0 | 0 | 0 | 0.138 | 8.4 | 185 | 7.87 | 198 |
| 90 | 0 | 0 | 0 | 0.138 | 8.54 | 182 | 8.09 | 193 |
| 100 | 0 | 0 | 0 | 0.138 | 8.66 | 180 | 8.29 | 188 |
| 110 | 0 | 0 | 0 | 0.138 | 8.79 | 177 | 8.5 | 183 |
| 120 | 0 | 0 | 0 | 0.138 | 8.92 | 175 | 8.7 | 179 |
| 130 | 0 | 0 | 0 | 0.138 | 9.04 | 172 | 8.9 | 175 |
| 167 | 0 | 0 | 0 | 0.138 | 9.49 | 164 | 9.41 | 166 |
| 212 | 0 | 0 | 0 | 0.138 | 10.01 | 156 | 9.94 | 157 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.054 | 17.12 | 1240 | 17.12 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 14.69 | 189 | 14.18 | 196 |
| 30 | 0 | 0 | 0 | 0.138 | 14.91 | 186 | 14.39 | 193 |
| 40 | 0 | 0 | 0 | 0.138 | 15.12 | 184 | 14.61 | 190 |
| 50 | 0 | 0 | 0 | 0.138 | 15.33 | 181 | 14.82 | 187 |
| 60 | 0 | 0 | 0 | 0.138 | 15.54 | 179 | 15.02 | 185 |
| 70 | 0 | 0 | 0 | 0.138 | 15.74 | 176 | 15.23 | 182 |
| 80 | 0 | 0 | 0 | 0.138 | 15.91 | 175 | 15.43 | 180 |
| 90 | 0 | 0 | 0 | 0.138 | 16.04 | 173 | 15.64 | 178 |
| 100 | 0 | 0 | 0 | 0.138 | 16.17 | 172 | 15.83 | 175 |
| 110 | 0 | 0 | 0 | 0.138 | 16.3 | 170 | 16.03 | 173 |
| 120 | 0 | 0 | 0 | 0.138 | 16.42 | 169 | 16.23 | 171 |
| 130 | 0 | 0 | 0 | 0.138 | 16.55 | 168 | 16.42 | 169 |
| 167 | 0 | 0 | 0 | 0.138 | 17.01 | 163 | 16.93 | 164 |
| 212 | 0 | 0 | 0 | 0.138 | 17.55 | 158 | 17.47 | 159 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.054 | 26.87 | 1240 | 26.87 | 1240* |
| 20 | 0 | 0 | 0 | 0.138 | 24.48 | 178 | 23.99 | 181 |
| 30 | 0 | 0 | 0 | 0.138 | 24.69 | 176 | 24.2 | 180 |
| 40 | 0 | 0 | 0 | 0.138 | 24.89 | 175 | 24.4 | 178 |
| 50 | 0 | 0 | 0 | 0.138 | 25.1 | 174 | 24.6 | 177 |
| 60 | 0 | 0 | 0 | 0.138 | 25.3 | 172 | 24.8 | 176 |
| 70 | 0 | 0 | 0 | 0.138 | 25.5 | 171 | 25 | 174 |
| 80 | 0 | 0 | 0 | 0.138 | 25.65 | 170 | 25.2 | 173 |
| 90 | 0 | 0 | 0 | 0.138 | 25.78 | 169 | 25.39 | 172 |
| 100 | 0 | 0 | 0 | 0.138 | 25.91 | 168 | 25.59 | 170 |
| 110 | 0 | 0 | 0 | 0.138 | 26.03 | 167 | 25.78 | 169 |
| 120 | 0 | 0 | 0 | 0.138 | 26.16 | 167 | 25.97 | 168 |
| 130 | 0 | 0 | 0 | 0.138 | 26.29 | 166 | 26.16 | 167 |
| 167 | 0 | 0 | 0 | 0.138 | 26.75 | 163 | 26.67 | 164 |
| 212 | 0 | 0 | 0 | 0.138 | 27.3 | 160 | 27.22 | 160 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-4 | 1-6 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 1-10 | 2-0 |
| 200.00 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-5 | 2-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 175.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 |
| 200.00 | 1-2 | 1-4 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 |
| 225.00 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 |
| 250.00 | 1-11 | 2-2 | 2-5 | 2-9 | 3-1 | 3-6 | 3-10 | 4-3 | 4-7 | 4-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 |
| 150.00 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-2 | 1-4 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-7 | 2-8 |
| 200.00 | 1-7 | 1-9 | 2-1 | 2-4 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-6 |
| 225.00 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-3 | 4-5 |
| 250.00 | 2-5 | 2-10 | 3-2 | 3-7 | 4-0 | 4-4 | 4-9 | 5-1 | 5-4 | 5-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 200.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 225.00 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 |
| 250.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-11 |
| 275.00 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 |
| 300.00 | 6-6 | 6-9 | 7-0 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-4 | 8-6 |
| 325.00 | 7-7 | 7-11 | 8-2 | 8-5 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 |
| 350.00 | 8-10 | 9-2 | 9-6 | 9-10 | 10-1 | 10-5 | 10-9 | 11-0 | 11-4 | 11-7 |
| 375.00 | 10-2 | 10-6 | 10-11 | 11-3 | 11-7 | 12-0 | 12-4 | 12-8 | 13-0 | 13-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 |
| 175.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 |
| 200.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 |
| 225.00 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 4-10 | 4-11 |
| 250.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 |
| 275.00 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 |
| 300.00 | 7-1 | 7-4 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-6 | 8-8 | 8-9 |
| 325.00 | 8-3 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 |
| 350.00 | 9-7 | 9-11 | 10-3 | 10-7 | 10-10 | 11-2 | 11-5 | 11-7 | 11-10 | 12-0 |
| 375.00 | 11-0 | 11-5 | 11-9 | 12-1 | 12-6 | 12-10 | 13-2 | 13-4 | 13-7 | 13-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 |
| 225.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 |
| 250.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 |
| 275.00 | 6-8 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 |
| 300.00 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 |
| 325.00 | 9-4 | 9-6 | 9-8 | 9-9 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 |
| 350.00 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-1 | 12-3 |
| 375.00 | 12-5 | 12-8 | 12-10 | 13-0 | 13-2 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 |
| 400.00 | 14-2 | 14-5 | 14-7 | 14-10 | 15-0 | 15-3 | 15-5 | 15-8 | 15-10 | 16-0 |
| 425.00 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 | 17-2 | 17-5 | 17-8 | 17-11 | 18-1 |
| 450.00 | 17-11 | 18-3 | 18-6 | 18-9 | 19-0 | 19-3 | 19-7 | 19-10 | 20-1 | 20-4 |
| 475.00 | 20-0 | 20-4 | 20-7 | 20-11 | 21-2 | 21-6 | 21-9 | 22-1 | 22-4 | 22-8 |
| 500.00 | 22-2 | 22-6 | 22-10 | 23-2 | 23-6 | 23-10 | 24-2 | 24-5 | 24-9 | 25-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 |
| 225.00 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 |
| 250.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 |
| 275.00 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 |
| 300.00 | 8-3 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 |
| 325.00 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 |
| 350.00 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-6 |
| 375.00 | 12-11 | 13-1 | 13-3 | 13-6 | 13-8 | 13-10 | 14-0 | 14-1 | 14-2 | 14-4 |
| 400.00 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 |
| 425.00 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-9 | 18-0 | 18-1 | 18-3 | 18-5 |
| 450.00 | 18-7 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 | 20-4 | 20-6 | 20-8 |
| 475.00 | 20-9 | 21-0 | 21-4 | 21-8 | 21-11 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 |
| 500.00 | 23-0 | 23-4 | 23-8 | 24-0 | 24-4 | 24-7 | 24-11 | 25-1 | 25-4 | 25-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 |
| 275.00 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 |
| 300.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 |
| 325.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-6 | 10-7 | 10-7 | 10-8 | 10-9 | 10-10 |
| 350.00 | 11-9 | 11-10 | 11-11 | 12-0 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 |
| 375.00 | 13-6 | 13-7 | 13-8 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-6 |
| 400.00 | 15-4 | 15-6 | 15-7 | 15-9 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 |
| 425.00 | 17-4 | 17-6 | 17-7 | 17-9 | 17-11 | 18-1 | 18-2 | 18-4 | 18-6 | 18-7 |
| 450.00 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-10 |
| 475.00 | 21-8 | 21-10 | 22-0 | 22-2 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-3 |
| 500.00 | 24-0 | 24-2 | 24-5 | 24-7 | 24-10 | 25-0 | 25-2 | 25-5 | 25-7 | 25-9 |
| 525.00 | 26-6 | 26-8 | 26-11 | 27-2 | 27-4 | 27-7 | 27-9 | 28-0 | 28-3 | 28-5 |
| 550.00 | 29-1 | 29-4 | 29-7 | 29-9 | 30-0 | 30-3 | 30-6 | 30-9 | 31-0 | 31-3 |
| 575.00 | 31-9 | 32-0 | 32-4 | 32-7 | 32-10 | 33-1 | 33-4 | 33-7 | 33-11 | 34-2 |
| 600.00 | 34-7 | 34-11 | 35-2 | 35-6 | 35-9 | 36-1 | 36-4 | 36-7 | 36-11 | 37-2 |
| 625.00 | 37-7 | 37-10 | 38-2 | 38-6 | 38-10 | 39-2 | 39-5 | 39-9 | 40-1 | 40-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 |
| 275.00 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 |
| 300.00 | 8-10 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 |
| 325.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 |
| 350.00 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-6 | 12-7 | 12-7 | 12-8 | 12-9 |
| 375.00 | 13-9 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-7 |
| 400.00 | 15-8 | 15-9 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 |
| 425.00 | 17-8 | 17-10 | 18-0 | 18-1 | 18-3 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 |
| 450.00 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-9 | 20-10 | 21-0 | 21-1 |
| 475.00 | 22-1 | 22-3 | 22-6 | 22-8 | 22-10 | 23-0 | 23-2 | 23-3 | 23-4 | 23-6 |
| 500.00 | 24-6 | 24-8 | 24-11 | 25-1 | 25-4 | 25-6 | 25-8 | 25-9 | 25-11 | 26-0 |
| 525.00 | 27-0 | 27-3 | 27-5 | 27-8 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 |
| 550.00 | 29-8 | 29-11 | 30-2 | 30-5 | 30-8 | 30-10 | 31-1 | 31-3 | 31-4 | 31-6 |
| 575.00 | 32-5 | 32-8 | 32-11 | 33-3 | 33-6 | 33-9 | 34-0 | 34-2 | 34-4 | 34-6 |
| 600.00 | 35-4 | 35-7 | 35-11 | 36-2 | 36-6 | 36-9 | 37-0 | 37-2 | 37-4 | 37-7 |
| 625.00 | 38-4 | 38-8 | 39-0 | 39-3 | 39-7 | 39-11 | 40-2 | 40-4 | 40-7 | 40-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 3/0 - 6/1 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION

1850 LB TENSION ---------- 808.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1850 LB TENSION ---------- 808.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1850 LB TENSION ---------- 808.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1850 LB TENSION ---------- 808.26


TABLE OF CONTENTS

**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

3/0 - 6/1 ACSR/AW TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.4 | 0.31 | 1619 | 0.27 | 1850* |
| 25 | 0 | 0 | 0 | 0.219 | 0.17 | 1589 | 0.15 | 1833 |
| 30 | 0 | 0 | 0 | 0.219 | 0.18 | 1496 | 0.15 | 1769 |
| 40 | 0 | 0 | 0 | 0.219 | 0.21 | 1312 | 0.17 | 1640 |
| 50 | 0 | 0 | 0 | 0.219 | 0.24 | 1130 | 0.18 | 1507 |
| 60 | 0 | 0 | 0 | 0.219 | 0.29 | 953 | 0.2 | 1372 |
| 70 | 0 | 0 | 0 | 0.219 | 0.35 | 783 | 0.22 | 1235 |
| 80 | 0 | 0 | 0 | 0.219 | 0.44 | 626 | 0.25 | 1096 |
| 90 | 0 | 0 | 0 | 0.219 | 0.56 | 492 | 0.29 | 956 |
| 100 | 0 | 0 | 0 | 0.219 | 0.65 | 420 | 0.33 | 818 |
| 110 | 0 | 0 | 0 | 0.219 | 0.71 | 387 | 0.4 | 683 |
| 120 | 0 | 0 | 0 | 0.219 | 0.77 | 357 | 0.49 | 558 |
| 130 | 0 | 0 | 0 | 0.219 | 0.83 | 329 | 0.61 | 451 |
| 167 | 0 | 0 | 0 | 0.219 | 1.1 | 249 | 1.01 | 270 |
| 212 | 0 | 0 | 0 | 0.219 | 1.44 | 191 | 1.35 | 203 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.4 | 1.22 | 1640 | 1.08 | 1850* |
| 25 | 0 | 0 | 0 | 0.219 | 0.72 | 1527 | 0.61 | 1784 |
| 30 | 0 | 0 | 0 | 0.219 | 0.76 | 1441 | 0.64 | 1721 |
| 40 | 0 | 0 | 0 | 0.219 | 0.86 | 1271 | 0.69 | 1595 |
| 50 | 0 | 0 | 0 | 0.219 | 0.99 | 1109 | 0.75 | 1467 |
| 60 | 0 | 0 | 0 | 0.219 | 1.14 | 959 | 0.82 | 1339 |
| 70 | 0 | 0 | 0 | 0.219 | 1.33 | 824 | 0.9 | 1211 |
| 80 | 0 | 0 | 0 | 0.219 | 1.55 | 708 | 1.01 | 1086 |
| 90 | 0 | 0 | 0 | 0.219 | 1.79 | 613 | 1.14 | 964 |
| 100 | 0 | 0 | 0 | 0.219 | 2.04 | 537 | 1.29 | 850 |
| 110 | 0 | 0 | 0 | 0.219 | 2.28 | 482 | 1.47 | 745 |
| 120 | 0 | 0 | 0 | 0.219 | 2.39 | 459 | 1.68 | 654 |
| 130 | 0 | 0 | 0 | 0.219 | 2.5 | 438 | 1.9 | 576 |
| 167 | 0 | 0 | 0 | 0.219 | 2.95 | 372 | 2.78 | 395 |
| 212 | 0 | 0 | 0 | 0.219 | 3.49 | 314 | 3.36 | 326 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.4 | 2.7 | 1668 | 2.43 | 1850* |
| 25 | 0 | 0 | 0 | 0.219 | 1.71 | 1442 | 1.44 | 1706 |
| 30 | 0 | 0 | 0 | 0.219 | 1.8 | 1366 | 1.5 | 1647 |
| 40 | 0 | 0 | 0 | 0.219 | 2.02 | 1220 | 1.61 | 1527 |
| 50 | 0 | 0 | 0 | 0.219 | 2.27 | 1086 | 1.75 | 1409 |
| 60 | 0 | 0 | 0 | 0.219 | 2.55 | 967 | 1.91 | 1293 |
| 70 | 0 | 0 | 0 | 0.219 | 2.85 | 864 | 2.09 | 1180 |
| 80 | 0 | 0 | 0 | 0.219 | 3.18 | 776 | 2.3 | 1073 |
| 90 | 0 | 0 | 0 | 0.219 | 3.51 | 702 | 2.53 | 973 |
| 100 | 0 | 0 | 0 | 0.219 | 3.85 | 641 | 2.79 | 883 |
| 110 | 0 | 0 | 0 | 0.219 | 4.18 | 590 | 3.07 | 802 |
| 120 | 0 | 0 | 0 | 0.219 | 4.5 | 548 | 3.37 | 731 |
| 130 | 0 | 0 | 0 | 0.219 | 4.71 | 524 | 3.68 | 670 |
| 167 | 0 | 0 | 0 | 0.219 | 5.29 | 466 | 4.82 | 512 |
| 212 | 0 | 0 | 0 | 0.219 | 6 | 412 | 5.84 | 422 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.4 | 4.72 | 1695 | 4.33 | 1850* |
| 25 | 0 | 0 | 0 | 0.219 | 3.24 | 1353 | 2.72 | 1610 |
| 30 | 0 | 0 | 0 | 0.219 | 3.4 | 1289 | 2.82 | 1555 |
| 40 | 0 | 0 | 0 | 0.219 | 3.74 | 1171 | 3.03 | 1447 |
| 50 | 0 | 0 | 0 | 0.219 | 4.11 | 1067 | 3.26 | 1342 |
| 60 | 0 | 0 | 0 | 0.219 | 4.5 | 975 | 3.53 | 1243 |
| 70 | 0 | 0 | 0 | 0.219 | 4.9 | 895 | 3.82 | 1148 |
| 80 | 0 | 0 | 0 | 0.219 | 5.3 | 827 | 4.13 | 1061 |
| 90 | 0 | 0 | 0 | 0.219 | 5.71 | 768 | 4.46 | 982 |
| 100 | 0 | 0 | 0 | 0.219 | 6.11 | 718 | 4.82 | 910 |
| 110 | 0 | 0 | 0 | 0.219 | 6.51 | 674 | 5.18 | 846 |
| 120 | 0 | 0 | 0 | 0.219 | 6.89 | 636 | 5.55 | 790 |
| 130 | 0 | 0 | 0 | 0.219 | 7.27 | 603 | 5.92 | 740 |
| 167 | 0 | 0 | 0 | 0.219 | 8.09 | 542 | 7.28 | 602 |
| 212 | 0 | 0 | 0 | 0.219 | 8.94 | 491 | 8.77 | 500 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.4 | 7.27 | 1720 | 6.76 | 1850* |
| 25 | 0 | 0 | 0 | 0.219 | 5.38 | 1274 | 4.54 | 1508 |
| 30 | 0 | 0 | 0 | 0.219 | 5.59 | 1224 | 4.69 | 1460 |
| 40 | 0 | 0 | 0 | 0.219 | 6.04 | 1133 | 5.01 | 1367 |
| 50 | 0 | 0 | 0 | 0.219 | 6.51 | 1052 | 5.35 | 1279 |
| 60 | 0 | 0 | 0 | 0.219 | 6.98 | 982 | 5.72 | 1197 |
| 70 | 0 | 0 | 0 | 0.219 | 7.45 | 919 | 6.11 | 1121 |
| 80 | 0 | 0 | 0 | 0.219 | 7.92 | 865 | 6.51 | 1051 |
| 90 | 0 | 0 | 0 | 0.219 | 8.38 | 817 | 6.93 | 988 |
| 100 | 0 | 0 | 0 | 0.219 | 8.84 | 775 | 7.36 | 931 |
| 110 | 0 | 0 | 0 | 0.219 | 9.29 | 738 | 7.78 | 880 |
| 120 | 0 | 0 | 0 | 0.219 | 9.73 | 704 | 8.21 | 834 |
| 130 | 0 | 0 | 0 | 0.219 | 10.16 | 675 | 8.64 | 793 |
| 167 | 0 | 0 | 0 | 0.219 | 11.33 | 605 | 10.19 | 673 |
| 212 | 0 | 0 | 0 | 0.219 | 12.31 | 557 | 11.94 | 574 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-1 |
| 150.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 1-0 | 1-3 | 1-6 | 1-7 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-2 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-3 | 2-7 | 2-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-6 |
| 225.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-8 | 1-10 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 | 2-0 | 2-3 |
| 225.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 2-11 |
| 250.00 | 1-1 | 1-2 | 1-4 | 1-7 | 1-9 | 2-1 | 2-5 | 2-10 | 3-2 | 3-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 |
| 250.00 | 1-0 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 |
| 275.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 |
| 300.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-10 | 3-1 |
| 325.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 3-0 | 3-3 | 3-7 |
| 350.00 | 1-11 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-2 | 3-5 | 3-10 | 4-2 |
| 375.00 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-4 | 4-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-10 |
| 225.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 |
| 250.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 |
| 275.00 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 | 3-6 |
| 300.00 | 1-7 | 1-10 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 |
| 325.00 | 1-11 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-9 | 4-1 | 4-6 | 4-11 |
| 350.00 | 2-2 | 2-5 | 2-9 | 3-1 | 3-6 | 3-11 | 4-4 | 4-9 | 5-3 | 5-8 |
| 375.00 | 2-6 | 2-10 | 3-2 | 3-7 | 4-0 | 4-6 | 5-0 | 5-6 | 6-0 | 6-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 225.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 |
| 275.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 |
| 300.00 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 |
| 325.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 |
| 350.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 |
| 375.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-7 |
| 400.00 | 2-8 | 2-10 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 |
| 425.00 | 3-0 | 3-2 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-5 | 5-10 |
| 450.00 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 | 5-8 | 6-1 | 6-7 |
| 475.00 | 3-9 | 4-0 | 4-3 | 4-7 | 5-0 | 5-5 | 5-10 | 6-4 | 6-10 | 7-4 |
| 500.00 | 4-1 | 4-5 | 4-9 | 5-1 | 5-6 | 6-0 | 6-5 | 7-0 | 7-6 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 |
| 250.00 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 |
| 275.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 |
| 300.00 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 |
| 325.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 |
| 350.00 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-9 | 4-1 | 4-4 | 4-8 | 5-0 |
| 375.00 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-9 |
| 400.00 | 3-1 | 3-5 | 3-9 | 4-1 | 4-6 | 4-11 | 5-4 | 5-8 | 6-1 | 6-6 |
| 425.00 | 3-6 | 3-10 | 4-3 | 4-8 | 5-1 | 5-6 | 6-0 | 6-5 | 6-11 | 7-4 |
| 450.00 | 3-11 | 4-4 | 4-9 | 5-2 | 5-8 | 6-2 | 6-9 | 7-3 | 7-9 | 8-3 |
| 475.00 | 4-4 | 4-10 | 5-3 | 5-10 | 6-4 | 6-11 | 7-6 | 8-1 | 8-7 | 9-2 |
| 500.00 | 4-10 | 5-4 | 5-10 | 6-5 | 7-0 | 7-8 | 8-3 | 8-11 | 9-7 | 10-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 275.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 |
| 300.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 325.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 350.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 |
| 375.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 |
| 400.00 | 2-10 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 |
| 425.00 | 3-2 | 3-5 | 3-7 | 3-10 | 4-2 | 4-5 | 4-8 | 5-0 | 5-4 | 5-7 |
| 450.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-3 | 5-7 | 5-11 | 6-4 |
| 475.00 | 4-0 | 4-3 | 4-6 | 4-10 | 5-2 | 5-6 | 5-11 | 6-3 | 6-8 | 7-0 |
| 500.00 | 4-5 | 4-8 | 5-0 | 5-4 | 5-9 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 |
| 525.00 | 4-10 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-8 | 8-1 | 8-7 |
| 550.00 | 5-4 | 5-8 | 6-1 | 6-6 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-5 |
| 575.00 | 5-10 | 6-2 | 6-8 | 7-1 | 7-7 | 8-1 | 8-7 | 9-2 | 9-9 | 10-4 |
| 600.00 | 6-4 | 6-9 | 7-3 | 7-9 | 8-3 | 8-10 | 9-5 | 10-0 | 10-7 | 11-3 |
| 625.00 | 6-10 | 7-4 | 7-10 | 8-4 | 8-11 | 9-7 | 10-2 | 10-10 | 11-6 | 12-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 |
| 275.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 |
| 300.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 325.00 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 |
| 350.00 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 |
| 375.00 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 | 5-3 |
| 400.00 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 |
| 425.00 | 3-9 | 4-1 | 4-4 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 |
| 450.00 | 4-2 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-5 | 6-9 | 7-2 | 7-6 |
| 475.00 | 4-8 | 5-1 | 5-5 | 5-10 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 |
| 500.00 | 5-2 | 5-7 | 6-1 | 6-6 | 7-0 | 7-5 | 7-11 | 8-5 | 8-10 | 9-3 |
| 525.00 | 5-8 | 6-2 | 6-8 | 7-2 | 7-8 | 8-3 | 8-9 | 9-3 | 9-9 | 10-3 |
| 550.00 | 6-3 | 6-9 | 7-4 | 7-11 | 8-5 | 9-0 | 9-7 | 10-2 | 10-8 | 11-3 |
| 575.00 | 6-10 | 7-5 | 8-0 | 8-7 | 9-3 | 9-10 | 10-6 | 11-1 | 11-8 | 12-3 |
| 600.00 | 7-5 | 8-1 | 8-8 | 9-4 | 10-1 | 10-9 | 11-5 | 12-1 | 12-9 | 13-5 |
| 625.00 | 8-1 | 8-9 | 9-5 | 10-2 | 10-11 | 11-8 | 12-5 | 13-1 | 13-10 | 14-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.502 | 0.44 | 1434 | 0.34 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 0.14 | 1920 | 0.12 | 2192 |
| 30 | 0 | 0 | 0 | 0.219 | 0.16 | 1733 | 0.13 | 2070 |
| 40 | 0 | 0 | 0 | 0.219 | 0.18 | 1548 | 0.14 | 1946 |
| 50 | 0 | 0 | 0 | 0.219 | 0.2 | 1363 | 0.15 | 1819 |
| 60 | 0 | 0 | 0 | 0.219 | 0.23 | 1181 | 0.16 | 1689 |
| 70 | 0 | 0 | 0 | 0.219 | 0.27 | 1002 | 0.18 | 1556 |
| 80 | 0 | 0 | 0 | 0.219 | 0.33 | 829 | 0.19 | 1421 |
| 90 | 0 | 0 | 0 | 0.219 | 0.41 | 668 | 0.21 | 1283 |
| 100 | 0 | 0 | 0 | 0.219 | 0.52 | 528 | 0.24 | 1143 |
| 110 | 0 | 0 | 0 | 0.219 | 0.56 | 491 | 0.27 | 1002 |
| 120 | 0 | 0 | 0 | 0.219 | 0.6 | 454 | 0.32 | 862 |
| 130 | 0 | 0 | 0 | 0.219 | 0.65 | 420 | 0.38 | 724 |
| 167 | 0 | 0 | 0 | 0.219 | 0.88 | 312 | 0.78 | 349 |
| 212 | 0 | 0 | 0 | 0.219 | 1.21 | 226 | 1.1 | 250 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.502 | 1.64 | 1532 | 1.36 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 0.6 | 1827 | 0.52 | 2098 |
| 30 | 0 | 0 | 0 | 0.219 | 0.66 | 1648 | 0.55 | 1977 |
| 40 | 0 | 0 | 0 | 0.219 | 0.74 | 1472 | 0.59 | 1853 |
| 50 | 0 | 0 | 0 | 0.219 | 0.84 | 1302 | 0.63 | 1728 |
| 60 | 0 | 0 | 0 | 0.219 | 0.96 | 1138 | 0.68 | 1601 |
| 70 | 0 | 0 | 0 | 0.219 | 1.11 | 986 | 0.74 | 1472 |
| 80 | 0 | 0 | 0 | 0.219 | 1.29 | 848 | 0.82 | 1343 |
| 90 | 0 | 0 | 0 | 0.219 | 1.5 | 728 | 0.9 | 1214 |
| 100 | 0 | 0 | 0 | 0.219 | 1.74 | 629 | 1.01 | 1088 |
| 110 | 0 | 0 | 0 | 0.219 | 1.99 | 550 | 1.13 | 965 |
| 120 | 0 | 0 | 0 | 0.219 | 2.1 | 522 | 1.29 | 850 |
| 130 | 0 | 0 | 0 | 0.219 | 2.2 | 497 | 1.47 | 745 |
| 167 | 0 | 0 | 0 | 0.219 | 2.63 | 417 | 2.31 | 474 |
| 212 | 0 | 0 | 0 | 0.219 | 3.17 | 346 | 3.01 | 364 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.502 | 3.48 | 1625 | 3.05 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 1.47 | 1677 | 1.27 | 1946 |
| 30 | 0 | 0 | 0 | 0.219 | 1.63 | 1514 | 1.35 | 1827 |
| 40 | 0 | 0 | 0 | 0.219 | 1.81 | 1358 | 1.44 | 1707 |
| 50 | 0 | 0 | 0 | 0.219 | 2.03 | 1213 | 1.55 | 1587 |
| 60 | 0 | 0 | 0 | 0.219 | 2.28 | 1080 | 1.68 | 1467 |
| 70 | 0 | 0 | 0 | 0.219 | 2.56 | 962 | 1.83 | 1349 |
| 80 | 0 | 0 | 0 | 0.219 | 2.87 | 859 | 2 | 1234 |
| 90 | 0 | 0 | 0 | 0.219 | 3.19 | 772 | 2.19 | 1124 |
| 100 | 0 | 0 | 0 | 0.219 | 3.53 | 699 | 2.42 | 1020 |
| 110 | 0 | 0 | 0 | 0.219 | 3.86 | 638 | 2.67 | 924 |
| 120 | 0 | 0 | 0 | 0.219 | 4.19 | 588 | 2.94 | 838 |
| 130 | 0 | 0 | 0 | 0.219 | 4.4 | 560 | 3.23 | 762 |
| 167 | 0 | 0 | 0 | 0.219 | 4.98 | 495 | 4.38 | 563 |
| 212 | 0 | 0 | 0 | 0.219 | 5.69 | 434 | 5.51 | 448 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.502 | 5.93 | 1694 | 5.43 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 2.94 | 1489 | 2.51 | 1748 |
| 30 | 0 | 0 | 0 | 0.219 | 3.24 | 1354 | 2.68 | 1636 |
| 40 | 0 | 0 | 0 | 0.219 | 3.56 | 1230 | 2.87 | 1526 |
| 50 | 0 | 0 | 0 | 0.219 | 3.92 | 1118 | 3.09 | 1418 |
| 60 | 0 | 0 | 0 | 0.219 | 4.3 | 1020 | 3.33 | 1315 |
| 70 | 0 | 0 | 0 | 0.219 | 4.69 | 934 | 3.6 | 1216 |
| 80 | 0 | 0 | 0 | 0.219 | 5.09 | 860 | 3.9 | 1124 |
| 90 | 0 | 0 | 0 | 0.219 | 5.5 | 797 | 4.22 | 1038 |
| 100 | 0 | 0 | 0 | 0.219 | 5.91 | 742 | 4.56 | 961 |
| 110 | 0 | 0 | 0 | 0.219 | 6.3 | 695 | 4.92 | 891 |
| 120 | 0 | 0 | 0 | 0.219 | 6.7 | 655 | 5.28 | 829 |
| 130 | 0 | 0 | 0 | 0.219 | 7.08 | 619 | 5.66 | 775 |
| 167 | 0 | 0 | 0 | 0.219 | 7.9 | 555 | 7.03 | 624 |
| 212 | 0 | 0 | 0 | 0.219 | 8.76 | 501 | 8.57 | 512 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.502 | 9.02 | 1742 | 8.49 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 5.24 | 1306 | 4.47 | 1532 |
| 30 | 0 | 0 | 0 | 0.219 | 5.68 | 1206 | 4.77 | 1436 |
| 40 | 0 | 0 | 0 | 0.219 | 6.13 | 1117 | 5.09 | 1344 |
| 50 | 0 | 0 | 0 | 0.219 | 6.6 | 1038 | 5.44 | 1258 |
| 60 | 0 | 0 | 0 | 0.219 | 7.07 | 969 | 5.82 | 1177 |
| 70 | 0 | 0 | 0 | 0.219 | 7.54 | 909 | 6.21 | 1103 |
| 80 | 0 | 0 | 0 | 0.219 | 8.01 | 856 | 6.62 | 1035 |
| 90 | 0 | 0 | 0 | 0.219 | 8.47 | 809 | 7.04 | 973 |
| 100 | 0 | 0 | 0 | 0.219 | 8.93 | 768 | 7.46 | 918 |
| 110 | 0 | 0 | 0 | 0.219 | 9.37 | 731 | 7.89 | 868 |
| 120 | 0 | 0 | 0 | 0.219 | 9.81 | 699 | 8.32 | 823 |
| 130 | 0 | 0 | 0 | 0.219 | 10.24 | 669 | 8.75 | 783 |
| 167 | 0 | 0 | 0 | 0.219 | 11.4 | 601 | 10.29 | 666 |
| 212 | 0 | 0 | 0 | 0.219 | 12.38 | 554 | 12.03 | 570 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-10 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-3 |
| 175.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-9 | 0-10 | 1-0 | 1-3 | 1-7 | 1-9 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-4 | 1-8 | 2-1 | 2-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 |
| 250.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-1 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-4 | 1-6 | 1-9 | 2-0 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-6 |
| 250.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-9 | 3-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 250.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 |
| 300.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 |
| 325.00 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-2 |
| 350.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-8 |
| 375.00 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 |
| 250.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-5 | 2-8 |
| 275.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 3-0 | 3-3 |
| 300.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 |
| 325.00 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 3-0 | 3-4 | 3-9 | 4-2 | 4-6 |
| 350.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-1 | 3-6 | 3-11 | 4-4 | 4-10 | 5-3 |
| 375.00 | 2-4 | 2-7 | 2-10 | 3-2 | 3-7 | 4-0 | 4-6 | 5-0 | 5-6 | 6-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 225.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 |
| 250.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 275.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 300.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 |
| 325.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 3-0 | 3-3 |
| 350.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 |
| 375.00 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-9 | 4-0 | 4-4 |
| 400.00 | 2-6 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 |
| 425.00 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-2 | 5-7 |
| 450.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 4-11 | 5-4 | 5-9 | 6-3 |
| 475.00 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 5-1 | 5-6 | 5-11 | 6-5 | 6-11 |
| 500.00 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 | 5-8 | 6-1 | 6-7 | 7-2 | 7-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 225.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 250.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 275.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 |
| 300.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 |
| 325.00 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 3-11 | 4-2 |
| 350.00 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-6 | 4-10 |
| 375.00 | 2-7 | 2-10 | 3-2 | 3-5 | 3-9 | 4-1 | 4-6 | 4-10 | 5-2 | 5-6 |
| 400.00 | 2-11 | 3-3 | 3-7 | 3-11 | 4-4 | 4-8 | 5-1 | 5-6 | 5-11 | 6-4 |
| 425.00 | 3-4 | 3-8 | 4-0 | 4-5 | 4-10 | 5-4 | 5-9 | 6-3 | 6-8 | 7-1 |
| 450.00 | 3-9 | 4-1 | 4-6 | 5-0 | 5-5 | 5-11 | 6-5 | 7-0 | 7-6 | 8-0 |
| 475.00 | 4-2 | 4-7 | 5-0 | 5-6 | 6-1 | 6-7 | 7-2 | 7-9 | 8-4 | 8-11 |
| 500.00 | 4-7 | 5-1 | 5-7 | 6-1 | 6-9 | 7-4 | 8-0 | 8-7 | 9-3 | 9-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |
| 275.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 |
| 300.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 |
| 325.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 |
| 350.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 |
| 375.00 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 |
| 400.00 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-1 |
| 425.00 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-5 | 5-8 |
| 450.00 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 | 5-8 | 6-1 | 6-5 |
| 475.00 | 4-0 | 4-4 | 4-7 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 | 6-9 | 7-1 |
| 500.00 | 4-6 | 4-9 | 5-1 | 5-5 | 5-10 | 6-3 | 6-7 | 7-0 | 7-6 | 7-11 |
| 525.00 | 4-11 | 5-3 | 5-7 | 6-0 | 6-5 | 6-10 | 7-4 | 7-9 | 8-3 | 8-8 |
| 550.00 | 5-5 | 5-9 | 6-2 | 6-7 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-7 |
| 575.00 | 5-11 | 6-4 | 6-9 | 7-2 | 7-8 | 8-3 | 8-9 | 9-4 | 9-10 | 10-5 |
| 600.00 | 6-5 | 6-10 | 7-4 | 7-10 | 8-5 | 8-11 | 9-6 | 10-2 | 10-9 | 11-4 |
| 625.00 | 7-0 | 7-5 | 8-0 | 8-6 | 9-1 | 9-8 | 10-4 | 11-0 | 11-8 | 12-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 |
| 275.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 |
| 300.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 |
| 325.00 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 |
| 350.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 |
| 375.00 | 2-11 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 |
| 400.00 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-9 | 6-0 |
| 425.00 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 |
| 450.00 | 4-3 | 4-7 | 5-0 | 5-4 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 |
| 475.00 | 4-9 | 5-1 | 5-6 | 5-11 | 6-5 | 6-10 | 7-3 | 7-8 | 8-1 | 8-6 |
| 500.00 | 5-3 | 5-8 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-6 | 8-11 | 9-4 |
| 525.00 | 5-9 | 6-3 | 6-9 | 7-3 | 7-10 | 8-4 | 8-10 | 9-4 | 9-10 | 10-4 |
| 550.00 | 6-4 | 6-10 | 7-5 | 8-0 | 8-7 | 9-1 | 9-8 | 10-3 | 10-10 | 11-4 |
| 575.00 | 6-11 | 7-6 | 8-1 | 8-9 | 9-4 | 10-0 | 10-7 | 11-2 | 11-10 | 12-5 |
| 600.00 | 7-7 | 8-2 | 8-10 | 9-6 | 10-2 | 10-10 | 11-6 | 12-2 | 12-10 | 13-6 |
| 625.00 | 8-2 | 8-10 | 9-7 | 10-4 | 11-1 | 11-9 | 12-6 | 13-3 | 13-11 | 14-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS



TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.804 | 0.67 | 1505 | 0.54 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 0.15 | 1874 | 0.13 | 2134 |
| 30 | 0 | 0 | 0 | 0.219 | 0.16 | 1687 | 0.14 | 2012 |
| 40 | 0 | 0 | 0 | 0.219 | 0.18 | 1502 | 0.15 | 1886 |
| 50 | 0 | 0 | 0 | 0.219 | 0.21 | 1318 | 0.16 | 1758 |
| 60 | 0 | 0 | 0 | 0.219 | 0.24 | 1136 | 0.17 | 1627 |
| 70 | 0 | 0 | 0 | 0.219 | 0.29 | 959 | 0.18 | 1493 |
| 80 | 0 | 0 | 0 | 0.219 | 0.35 | 788 | 0.2 | 1357 |
| 90 | 0 | 0 | 0 | 0.219 | 0.43 | 631 | 0.22 | 1219 |
| 100 | 0 | 0 | 0 | 0.219 | 0.54 | 506 | 0.25 | 1078 |
| 110 | 0 | 0 | 0 | 0.219 | 0.58 | 469 | 0.29 | 938 |
| 120 | 0 | 0 | 0 | 0.219 | 0.63 | 434 | 0.34 | 798 |
| 130 | 0 | 0 | 0 | 0.219 | 0.68 | 401 | 0.41 | 664 |
| 167 | 0 | 0 | 0 | 0.219 | 0.92 | 298 | 0.83 | 331 |
| 212 | 0 | 0 | 0 | 0.219 | 1.26 | 218 | 1.15 | 239 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.804 | 2.39 | 1681 | 2.17 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 0.67 | 1634 | 0.59 | 1867 |
| 30 | 0 | 0 | 0 | 0.219 | 0.75 | 1458 | 0.63 | 1743 |
| 40 | 0 | 0 | 0 | 0.219 | 0.85 | 1288 | 0.68 | 1617 |
| 50 | 0 | 0 | 0 | 0.219 | 0.97 | 1126 | 0.74 | 1489 |
| 60 | 0 | 0 | 0 | 0.219 | 1.12 | 974 | 0.8 | 1361 |
| 70 | 0 | 0 | 0 | 0.219 | 1.31 | 837 | 0.89 | 1233 |
| 80 | 0 | 0 | 0 | 0.219 | 1.52 | 719 | 0.99 | 1107 |
| 90 | 0 | 0 | 0 | 0.219 | 1.76 | 622 | 1.11 | 985 |
| 100 | 0 | 0 | 0 | 0.219 | 2.01 | 544 | 1.26 | 869 |
| 110 | 0 | 0 | 0 | 0.219 | 2.25 | 487 | 1.44 | 762 |
| 120 | 0 | 0 | 0 | 0.219 | 2.36 | 464 | 1.64 | 668 |
| 130 | 0 | 0 | 0 | 0.219 | 2.48 | 442 | 1.86 | 588 |
| 167 | 0 | 0 | 0 | 0.219 | 2.92 | 375 | 2.74 | 400 |
| 212 | 0 | 0 | 0 | 0.219 | 3.46 | 317 | 3.33 | 329 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.804 | 5.06 | 1790 | 4.9 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 1.99 | 1238 | 1.71 | 1443 |
| 30 | 0 | 0 | 0 | 0.219 | 2.23 | 1103 | 1.86 | 1327 |
| 40 | 0 | 0 | 0 | 0.219 | 2.51 | 982 | 2.03 | 1214 |
| 50 | 0 | 0 | 0 | 0.219 | 2.81 | 876 | 2.23 | 1106 |
| 60 | 0 | 0 | 0 | 0.219 | 3.13 | 787 | 2.45 | 1005 |
| 70 | 0 | 0 | 0 | 0.219 | 3.47 | 711 | 2.7 | 912 |
| 80 | 0 | 0 | 0 | 0.219 | 3.8 | 649 | 2.98 | 828 |
| 90 | 0 | 0 | 0 | 0.219 | 4.13 | 596 | 3.27 | 754 |
| 100 | 0 | 0 | 0 | 0.219 | 4.46 | 553 | 3.57 | 690 |
| 110 | 0 | 0 | 0 | 0.219 | 4.78 | 516 | 3.88 | 635 |
| 120 | 0 | 0 | 0 | 0.219 | 5.09 | 485 | 4.19 | 589 |
| 130 | 0 | 0 | 0 | 0.219 | 5.28 | 467 | 4.5 | 548 |
| 167 | 0 | 0 | 0 | 0.219 | 5.86 | 421 | 5.58 | 442 |
| 212 | 0 | 0 | 0 | 0.219 | 6.55 | 377 | 6.43 | 384 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.804 | 8.79 | 1833 | 8.71 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 4.99 | 878 | 4.36 | 1006 |
| 30 | 0 | 0 | 0 | 0.219 | 5.4 | 812 | 4.7 | 933 |
| 40 | 0 | 0 | 0 | 0.219 | 5.8 | 755 | 5.05 | 867 |
| 50 | 0 | 0 | 0 | 0.219 | 6.21 | 707 | 5.42 | 809 |
| 60 | 0 | 0 | 0 | 0.219 | 6.6 | 664 | 5.79 | 758 |
| 70 | 0 | 0 | 0 | 0.219 | 6.98 | 628 | 6.15 | 712 |
| 80 | 0 | 0 | 0 | 0.219 | 7.36 | 596 | 6.52 | 672 |
| 90 | 0 | 0 | 0 | 0.219 | 7.73 | 568 | 6.89 | 637 |
| 100 | 0 | 0 | 0 | 0.219 | 8.08 | 543 | 7.24 | 605 |
| 110 | 0 | 0 | 0 | 0.219 | 8.43 | 520 | 7.59 | 578 |
| 120 | 0 | 0 | 0 | 0.219 | 8.77 | 500 | 7.94 | 553 |
| 130 | 0 | 0 | 0 | 0.219 | 9.1 | 482 | 8.28 | 530 |
| 167 | 0 | 0 | 0 | 0.219 | 9.81 | 448 | 9.46 | 464 |
| 212 | 0 | 0 | 0 | 0.219 | 10.61 | 414 | 10.51 | 418 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.495 | 18.29 | 850 | 18.29 | 850* |
| 20 | 0 | 0 | 0 | 0.087 | 14.67 | 186 | 14.08 | 194 |
| 30 | 0 | 0 | 0 | 0.087 | 15 | 182 | 14.42 | 189 |
| 40 | 0 | 0 | 0 | 0.087 | 15.32 | 178 | 14.75 | 185 |
| 50 | 0 | 0 | 0 | 0.087 | 15.63 | 175 | 15.07 | 181 |
| 60 | 0 | 0 | 0 | 0.087 | 15.94 | 171 | 15.4 | 177 |
| 70 | 0 | 0 | 0 | 0.087 | 16.24 | 168 | 15.71 | 174 |
| 80 | 0 | 0 | 0 | 0.087 | 16.54 | 165 | 16.02 | 170 |
| 90 | 0 | 0 | 0 | 0.087 | 16.83 | 162 | 16.33 | 167 |
| 100 | 0 | 0 | 0 | 0.087 | 17.12 | 160 | 16.63 | 164 |
| 110 | 0 | 0 | 0 | 0.087 | 17.41 | 157 | 16.92 | 161 |
| 120 | 0 | 0 | 0 | 0.087 | 17.69 | 154 | 17.21 | 159 |
| 130 | 0 | 0 | 0 | 0.087 | 17.93 | 152 | 17.5 | 156 |
| 167 | 0 | 0 | 0 | 0.087 | 18.57 | 147 | 18.49 | 148 |
| 212 | 0 | 0 | 0 | 0.087 | 19.32 | 142 | 19.24 | 142 |

* Design Condition

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.804 | 13.65 | 1847 | 13.63 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 9.72 | 705 | 8.97 | 764 |
| 30 | 0 | 0 | 0 | 0.219 | 10.15 | 676 | 9.38 | 730 |
| 40 | 0 | 0 | 0 | 0.219 | 10.57 | 649 | 9.79 | 700 |
| 50 | 0 | 0 | 0 | 0.219 | 10.98 | 625 | 10.19 | 672 |
| 60 | 0 | 0 | 0 | 0.219 | 11.38 | 603 | 10.59 | 647 |
| 70 | 0 | 0 | 0 | 0.219 | 11.77 | 583 | 10.98 | 624 |
| 80 | 0 | 0 | 0 | 0.219 | 12.16 | 564 | 11.36 | 604 |
| 90 | 0 | 0 | 0 | 0.219 | 12.53 | 548 | 11.74 | 584 |
| 100 | 0 | 0 | 0 | 0.219 | 12.9 | 532 | 12.11 | 567 |
| 110 | 0 | 0 | 0 | 0.219 | 13.26 | 518 | 12.47 | 550 |
| 120 | 0 | 0 | 0 | 0.219 | 13.61 | 504 | 12.82 | 535 |
| 130 | 0 | 0 | 0 | 0.219 | 13.95 | 492 | 13.17 | 521 |
| 167 | 0 | 0 | 0 | 0.219 | 14.81 | 464 | 14.41 | 476 |
| 212 | 0 | 0 | 0 | 0.219 | 15.69 | 438 | 15.6 | 441 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-7 | 0-8 | 0-10 | 0-11 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 1-0 | 1-3 | 1-4 |
| 175.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-1 | 1-4 | 1-8 | 1-9 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 |
| 225.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 |
| 225.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 2-10 |
| 250.00 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 2-1 | 2-5 | 2-9 | 3-2 | 3-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 |
| 250.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 |
| 275.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 |
| 300.00 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 3-0 | 3-3 | 3-7 | 3-11 |
| 325.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 |
| 350.00 | 2-4 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-3 |
| 375.00 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 | 4-3 | 4-8 | 5-1 | 5-7 | 6-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-1 |
| 225.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 |
| 250.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 |
| 275.00 | 1-8 | 1-11 | 2-1 | 2-4 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 |
| 300.00 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-9 |
| 325.00 | 2-4 | 2-7 | 2-11 | 3-4 | 3-8 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 |
| 350.00 | 2-9 | 3-0 | 3-5 | 3-10 | 4-3 | 4-9 | 5-2 | 5-8 | 6-1 | 6-6 |
| 375.00 | 3-1 | 3-6 | 3-11 | 4-5 | 4-11 | 5-5 | 5-11 | 6-6 | 7-0 | 7-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 225.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 |
| 250.00 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 |
| 275.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 |
| 300.00 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 |
| 325.00 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 | 5-0 |
| 350.00 | 3-4 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 | 5-0 | 5-3 | 5-7 | 5-10 |
| 375.00 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 |
| 400.00 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-2 | 6-6 | 6-11 | 7-3 | 7-7 |
| 425.00 | 4-11 | 5-4 | 5-8 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-2 | 8-7 |
| 450.00 | 5-6 | 5-11 | 6-5 | 6-10 | 7-4 | 7-9 | 8-3 | 8-9 | 9-2 | 9-7 |
| 475.00 | 6-2 | 6-7 | 7-2 | 7-8 | 8-2 | 8-8 | 9-2 | 9-9 | 10-3 | 10-9 |
| 500.00 | 6-10 | 7-4 | 7-11 | 8-6 | 9-0 | 9-7 | 10-2 | 10-9 | 11-4 | 11-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 225.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 |
| 250.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 |
| 275.00 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 |
| 300.00 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-7 | 4-9 |
| 325.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 |
| 350.00 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 |
| 375.00 | 4-5 | 4-9 | 5-1 | 5-5 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 | 7-5 |
| 400.00 | 5-0 | 5-5 | 5-10 | 6-2 | 6-7 | 7-0 | 7-4 | 7-9 | 8-1 | 8-5 |
| 425.00 | 5-8 | 6-1 | 6-7 | 7-0 | 7-5 | 7-11 | 8-4 | 8-9 | 9-2 | 9-6 |
| 450.00 | 6-4 | 6-10 | 7-4 | 7-10 | 8-4 | 8-10 | 9-4 | 9-9 | 10-3 | 10-8 |
| 475.00 | 7-0 | 7-7 | 8-2 | 8-9 | 9-4 | 9-10 | 10-5 | 10-11 | 11-5 | 11-11 |
| 500.00 | 7-10 | 8-5 | 9-1 | 9-8 | 10-4 | 10-11 | 11-6 | 12-1 | 12-8 | 13-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 275.00 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 |
| 300.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 |
| 325.00 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 |
| 350.00 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 375.00 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-5 | 6-7 | 6-10 | 7-0 |
| 400.00 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 |
| 425.00 | 6-6 | 6-9 | 7-1 | 7-4 | 7-8 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 |
| 450.00 | 7-3 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 | 9-2 | 9-6 | 9-10 | 10-1 |
| 475.00 | 8-1 | 8-6 | 8-10 | 9-2 | 9-7 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 |
| 500.00 | 9-0 | 9-5 | 9-9 | 10-2 | 10-7 | 11-0 | 11-4 | 11-9 | 12-1 | 12-6 |
| 525.00 | 9-11 | 10-4 | 10-10 | 11-3 | 11-8 | 12-1 | 12-6 | 12-11 | 13-4 | 13-9 |
| 550.00 | 10-10 | 11-4 | 11-10 | 12-4 | 12-10 | 13-3 | 13-9 | 14-2 | 14-8 | 15-1 |
| 575.00 | 11-10 | 12-5 | 12-11 | 13-6 | 14-0 | 14-6 | 15-0 | 15-6 | 16-0 | 16-6 |
| 600.00 | 12-11 | 13-6 | 14-1 | 14-8 | 15-3 | 15-10 | 16-4 | 16-11 | 17-5 | 18-0 |
| 625.00 | 14-0 | 14-8 | 15-4 | 15-11 | 16-7 | 17-2 | 17-9 | 18-4 | 18-11 | 19-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 |
| 275.00 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 |
| 300.00 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-9 |
| 325.00 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-7 |
| 350.00 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 |
| 375.00 | 5-6 | 5-8 | 5-11 | 6-2 | 6-5 | 6-7 | 6-10 | 7-1 | 7-3 | 7-5 |
| 400.00 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 |
| 425.00 | 7-0 | 7-4 | 7-8 | 7-11 | 8-3 | 8-6 | 8-9 | 9-1 | 9-4 | 9-7 |
| 450.00 | 7-10 | 8-3 | 8-7 | 8-11 | 9-3 | 9-6 | 9-10 | 10-2 | 10-5 | 10-9 |
| 475.00 | 8-9 | 9-2 | 9-6 | 9-11 | 10-3 | 10-7 | 11-0 | 11-4 | 11-8 | 12-0 |
| 500.00 | 9-9 | 10-2 | 10-7 | 11-0 | 11-5 | 11-9 | 12-2 | 12-6 | 12-11 | 13-3 |
| 525.00 | 10-9 | 11-2 | 11-8 | 12-1 | 12-7 | 13-0 | 13-5 | 13-10 | 14-3 | 14-7 |
| 550.00 | 11-9 | 12-3 | 12-9 | 13-3 | 13-9 | 14-3 | 14-9 | 15-2 | 15-7 | 16-1 |
| 575.00 | 12-10 | 13-5 | 14-0 | 14-6 | 15-1 | 15-7 | 16-1 | 16-7 | 17-1 | 17-6 |
| 600.00 | 14-0 | 14-7 | 15-3 | 15-10 | 16-5 | 16-11 | 17-6 | 18-1 | 18-7 | 19-1 |
| 625.00 | 15-2 | 15-10 | 16-6 | 17-2 | 17-9 | 18-5 | 19-0 | 19-7 | 20-2 | 20-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.336 | 1.02 | 1642 | 0.9 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 0.16 | 1738 | 0.14 | 1967 |
| 30 | 0 | 0 | 0 | 0.219 | 0.18 | 1553 | 0.15 | 1841 |
| 40 | 0 | 0 | 0 | 0.219 | 0.2 | 1368 | 0.16 | 1712 |
| 50 | 0 | 0 | 0 | 0.219 | 0.23 | 1186 | 0.17 | 1581 |
| 60 | 0 | 0 | 0 | 0.219 | 0.27 | 1007 | 0.19 | 1447 |
| 70 | 0 | 0 | 0 | 0.219 | 0.33 | 834 | 0.21 | 1311 |
| 80 | 0 | 0 | 0 | 0.219 | 0.41 | 672 | 0.23 | 1173 |
| 90 | 0 | 0 | 0 | 0.219 | 0.52 | 530 | 0.27 | 1033 |
| 100 | 0 | 0 | 0 | 0.219 | 0.62 | 444 | 0.31 | 893 |
| 110 | 0 | 0 | 0 | 0.219 | 0.67 | 410 | 0.36 | 755 |
| 120 | 0 | 0 | 0 | 0.219 | 0.72 | 378 | 0.44 | 624 |
| 130 | 0 | 0 | 0 | 0.219 | 0.78 | 349 | 0.54 | 506 |
| 167 | 0 | 0 | 0 | 0.219 | 1.04 | 262 | 0.96 | 286 |
| 212 | 0 | 0 | 0 | 0.219 | 1.38 | 198 | 1.29 | 212 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.336 | 3.62 | 1850 | 3.62 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 1.06 | 1029 | 0.92 | 1188 |
| 30 | 0 | 0 | 0 | 0.219 | 1.24 | 886 | 1.03 | 1066 |
| 40 | 0 | 0 | 0 | 0.219 | 1.44 | 761 | 1.16 | 947 |
| 50 | 0 | 0 | 0 | 0.219 | 1.67 | 656 | 1.31 | 836 |
| 60 | 0 | 0 | 0 | 0.219 | 1.92 | 571 | 1.49 | 734 |
| 70 | 0 | 0 | 0 | 0.219 | 2.17 | 504 | 1.7 | 645 |
| 80 | 0 | 0 | 0 | 0.219 | 2.43 | 451 | 1.92 | 570 |
| 90 | 0 | 0 | 0 | 0.219 | 2.68 | 409 | 2.16 | 508 |
| 100 | 0 | 0 | 0 | 0.219 | 2.92 | 376 | 2.39 | 458 |
| 110 | 0 | 0 | 0 | 0.219 | 3.09 | 354 | 2.63 | 417 |
| 120 | 0 | 0 | 0 | 0.219 | 3.21 | 341 | 2.86 | 383 |
| 130 | 0 | 0 | 0 | 0.219 | 3.33 | 329 | 3.08 | 356 |
| 167 | 0 | 0 | 0 | 0.219 | 3.77 | 291 | 3.7 | 296 |
| 212 | 0 | 0 | 0 | 0.219 | 4.27 | 257 | 4.21 | 261 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.336 | 8.15 | 1850 | 8.15 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 5.34 | 462 | 4.76 | 518 |
| 30 | 0 | 0 | 0 | 0.219 | 5.63 | 438 | 5.05 | 488 |
| 40 | 0 | 0 | 0 | 0.219 | 5.91 | 417 | 5.34 | 462 |
| 50 | 0 | 0 | 0 | 0.219 | 6.18 | 399 | 5.62 | 439 |
| 60 | 0 | 0 | 0 | 0.219 | 6.45 | 383 | 5.89 | 419 |
| 70 | 0 | 0 | 0 | 0.219 | 6.71 | 368 | 6.15 | 401 |
| 80 | 0 | 0 | 0 | 0.219 | 6.95 | 355 | 6.41 | 385 |
| 90 | 0 | 0 | 0 | 0.219 | 7.2 | 343 | 6.66 | 371 |
| 100 | 0 | 0 | 0 | 0.219 | 7.41 | 333 | 6.9 | 358 |
| 110 | 0 | 0 | 0 | 0.219 | 7.55 | 327 | 7.14 | 346 |
| 120 | 0 | 0 | 0 | 0.219 | 7.69 | 321 | 7.37 | 335 |
| 130 | 0 | 0 | 0 | 0.219 | 7.83 | 316 | 7.59 | 325 |
| 167 | 0 | 0 | 0 | 0.219 | 8.32 | 297 | 8.25 | 300 |
| 212 | 0 | 0 | 0 | 0.219 | 8.9 | 278 | 8.83 | 280 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.336 | 14.52 | 1850 | 14.52 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 11.84 | 371 | 11.3 | 389 |
| 30 | 0 | 0 | 0 | 0.219 | 12.1 | 363 | 11.56 | 380 |
| 40 | 0 | 0 | 0 | 0.219 | 12.35 | 356 | 11.82 | 372 |
| 50 | 0 | 0 | 0 | 0.219 | 12.61 | 349 | 12.07 | 364 |
| 60 | 0 | 0 | 0 | 0.219 | 12.85 | 342 | 12.32 | 357 |
| 70 | 0 | 0 | 0 | 0.219 | 13.1 | 336 | 12.56 | 350 |
| 80 | 0 | 0 | 0 | 0.219 | 13.33 | 330 | 12.8 | 343 |
| 90 | 0 | 0 | 0 | 0.219 | 13.57 | 324 | 13.04 | 337 |
| 100 | 0 | 0 | 0 | 0.219 | 13.75 | 320 | 13.27 | 331 |
| 110 | 0 | 0 | 0 | 0.219 | 13.89 | 317 | 13.51 | 326 |
| 120 | 0 | 0 | 0 | 0.219 | 14.04 | 314 | 13.73 | 320 |
| 130 | 0 | 0 | 0 | 0.219 | 14.18 | 310 | 13.96 | 315 |
| 167 | 0 | 0 | 0 | 0.219 | 14.7 | 300 | 14.63 | 301 |
| 212 | 0 | 0 | 0 | 0.219 | 15.31 | 288 | 15.24 | 289 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.336 | 22.75 | 1850 | 22.75 | 1850* |
| 20 | 0 | 0 | 0 | 0.219 | 20.14 | 342 | 19.62 | 351 |
| 30 | 0 | 0 | 0 | 0.219 | 20.38 | 338 | 19.86 | 347 |
| 40 | 0 | 0 | 0 | 0.219 | 20.63 | 334 | 20.11 | 343 |
| 50 | 0 | 0 | 0 | 0.219 | 20.87 | 330 | 20.35 | 339 |
| 60 | 0 | 0 | 0 | 0.219 | 21.1 | 327 | 20.59 | 335 |
| 70 | 0 | 0 | 0 | 0.219 | 21.34 | 323 | 20.82 | 331 |
| 80 | 0 | 0 | 0 | 0.219 | 21.57 | 320 | 21.05 | 327 |
| 90 | 0 | 0 | 0 | 0.219 | 21.8 | 316 | 21.28 | 324 |
| 100 | 0 | 0 | 0 | 0.219 | 21.97 | 314 | 21.51 | 320 |
| 110 | 0 | 0 | 0 | 0.219 | 22.12 | 312 | 21.74 | 317 |
| 120 | 0 | 0 | 0 | 0.219 | 22.26 | 310 | 21.97 | 314 |
| 130 | 0 | 0 | 0 | 0.219 | 22.41 | 308 | 22.19 | 311 |
| 167 | 0 | 0 | 0 | 0.219 | 22.94 | 301 | 22.86 | 302 |
| 212 | 0 | 0 | 0 | 0.219 | 23.57 | 293 | 23.5 | 294 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-6 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 1-11 | 2-1 |
| 200.00 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-4 | 1-8 | 2-1 | 2-6 | 2-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 |
| 200.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 |
| 225.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-9 | 3-0 | 3-4 |
| 250.00 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-9 | 4-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-2 |
| 150.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-4 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 |
| 225.00 | 1-4 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 3-11 |
| 250.00 | 1-8 | 1-11 | 2-3 | 2-7 | 3-0 | 3-5 | 3-10 | 4-2 | 4-7 | 4-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 |
| 175.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 |
| 225.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 |
| 250.00 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 275.00 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 |
| 300.00 | 4-9 | 5-1 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 |
| 325.00 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 | 7-6 | 7-10 | 8-1 | 8-4 |
| 350.00 | 6-6 | 6-11 | 7-3 | 7-8 | 8-0 | 8-4 | 8-9 | 9-1 | 9-5 | 9-9 |
| 375.00 | 7-5 | 7-11 | 8-4 | 8-9 | 9-2 | 9-7 | 10-0 | 10-5 | 10-9 | 11-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 175.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 200.00 | 2-4 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-4 |
| 225.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-3 |
| 250.00 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 |
| 275.00 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-4 |
| 300.00 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 |
| 325.00 | 6-3 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 8-10 |
| 350.00 | 7-3 | 7-8 | 8-1 | 8-5 | 8-9 | 9-2 | 9-6 | 9-10 | 10-1 | 10-3 |
| 375.00 | 8-4 | 8-10 | 9-3 | 9-8 | 10-1 | 10-6 | 10-10 | 11-3 | 11-7 | 11-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 |
| 225.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 |
| 250.00 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 275.00 | 5-4 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-5 |
| 300.00 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-6 | 7-7 |
| 325.00 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 |
| 350.00 | 8-8 | 8-10 | 9-1 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 |
| 375.00 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 | 11-0 | 11-3 | 11-6 | 11-8 | 11-10 |
| 400.00 | 11-4 | 11-7 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-0 | 13-3 | 13-6 |
| 425.00 | 12-9 | 13-1 | 13-4 | 13-8 | 13-11 | 14-2 | 14-5 | 14-9 | 15-0 | 15-3 |
| 450.00 | 14-4 | 14-8 | 15-0 | 15-3 | 15-7 | 15-11 | 16-3 | 16-6 | 16-10 | 17-1 |
| 475.00 | 15-11 | 16-4 | 16-8 | 17-0 | 17-5 | 17-9 | 18-1 | 18-5 | 18-9 | 19-1 |
| 500.00 | 17-8 | 18-1 | 18-6 | 18-10 | 19-3 | 19-8 | 20-0 | 20-5 | 20-9 | 21-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 |
| 225.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 |
| 250.00 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-4 | 5-4 | 5-5 |
| 275.00 | 5-7 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-7 |
| 300.00 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 | 7-8 | 7-9 | 7-10 |
| 325.00 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-2 |
| 350.00 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 | 10-2 | 10-5 | 10-6 | 10-8 |
| 375.00 | 10-5 | 10-8 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-1 | 12-3 |
| 400.00 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-9 | 13-11 |
| 425.00 | 13-4 | 13-8 | 13-11 | 14-3 | 14-6 | 14-9 | 15-1 | 15-4 | 15-6 | 15-8 |
| 450.00 | 15-0 | 15-4 | 15-8 | 16-0 | 16-3 | 16-7 | 16-11 | 17-2 | 17-5 | 17-7 |
| 475.00 | 16-8 | 17-1 | 17-5 | 17-9 | 18-2 | 18-6 | 18-10 | 19-2 | 19-5 | 19-7 |
| 500.00 | 18-6 | 18-11 | 19-4 | 19-9 | 20-1 | 20-6 | 20-10 | 21-3 | 21-6 | 21-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 275.00 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 300.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 325.00 | 8-3 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 |
| 350.00 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-4 | 10-5 | 10-6 | 10-8 |
| 375.00 | 11-0 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-10 | 12-0 | 12-1 | 12-3 |
| 400.00 | 12-7 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 |
| 425.00 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 |
| 450.00 | 15-11 | 16-1 | 16-3 | 16-6 | 16-8 | 16-10 | 17-1 | 17-3 | 17-5 | 17-7 |
| 475.00 | 17-8 | 17-11 | 18-2 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 | 19-5 | 19-7 |
| 500.00 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-3 | 21-6 | 21-9 |
| 525.00 | 21-8 | 21-11 | 22-2 | 22-5 | 22-8 | 23-0 | 23-3 | 23-6 | 23-9 | 24-0 |
| 550.00 | 23-9 | 24-1 | 24-4 | 24-8 | 24-11 | 25-2 | 25-6 | 25-9 | 26-1 | 26-4 |
| 575.00 | 26-0 | 26-3 | 26-7 | 26-11 | 27-3 | 27-7 | 27-10 | 28-2 | 28-6 | 28-9 |
| 600.00 | 28-3 | 28-8 | 29-0 | 29-4 | 29-8 | 30-0 | 30-4 | 30-8 | 31-0 | 31-4 |
| 625.00 | 30-8 | 31-1 | 31-5 | 31-10 | 32-2 | 32-7 | 32-11 | 33-4 | 33-8 | 34-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 275.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 |
| 300.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 7-11 |
| 325.00 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 |
| 350.00 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-5 | 10-7 | 10-8 | 10-9 | 10-10 |
| 375.00 | 11-4 | 11-5 | 11-7 | 11-9 | 11-10 | 12-0 | 12-1 | 12-3 | 12-4 | 12-5 |
| 400.00 | 12-11 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 13-11 | 14-1 | 14-2 |
| 425.00 | 14-6 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-10 | 16-0 |
| 450.00 | 16-4 | 16-6 | 16-8 | 16-11 | 17-1 | 17-3 | 17-6 | 17-8 | 17-9 | 17-11 |
| 475.00 | 18-2 | 18-5 | 18-7 | 18-10 | 19-1 | 19-3 | 19-6 | 19-8 | 19-10 | 19-11 |
| 500.00 | 20-2 | 20-5 | 20-8 | 20-10 | 21-1 | 21-4 | 21-7 | 21-10 | 22-0 | 22-1 |
| 525.00 | 22-2 | 22-6 | 22-9 | 23-0 | 23-3 | 23-6 | 23-9 | 24-1 | 24-3 | 24-5 |
| 550.00 | 24-4 | 24-8 | 25-0 | 25-3 | 25-7 | 25-10 | 26-1 | 26-5 | 26-7 | 26-9 |
| 575.00 | 26-8 | 27-0 | 27-4 | 27-7 | 27-11 | 28-3 | 28-7 | 28-10 | 29-1 | 29-3 |
| 600.00 | 29-0 | 29-5 | 29-9 | 30-1 | 30-5 | 30-9 | 31-1 | 31-5 | 31-8 | 31-11 |
| 625.00 | 31-6 | 31-11 | 32-3 | 32-8 | 33-0 | 33-5 | 33-9 | 34-1 | 34-5 | 34-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/1/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 4/0 - 6/1 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION

1000 LB TENSION ---------- 809.2
1500 LB TENSION ---------- 809.10
2000 LB TENSION ---------- 809.18
2400 LB TENSION ---------- 809.26

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 809.34
1500 LB TENSION ---------- 809.42
2000 LB TENSION ---------- 809.50
2400 LB TENSION ---------- 809.58

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 809.66
1500 LB TENSION ---------- 809.74
2000 LB TENSION ---------- 809.82
2400 LB TENSION ---------- 809.90

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 809.98
1500 LB TENSION ---------- 809.106
2000 LB TENSION ---------- 809.114
2400 LB TENSION ---------- 809.122


**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

4/0 - 6/1 ACSR/AW TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 0.65 | 900 | 0.58 | 1000* |
| 25 | 0 | 0 | 0 | 0.277 | 0.45 | 771 | 0.38 | 907 |
| 30 | 0 | 0 | 0 | 0.277 | 0.51 | 684 | 0.42 | 827 |
| 40 | 0 | 0 | 0 | 0.277 | 0.64 | 539 | 0.51 | 677 |
| 50 | 0 | 0 | 0 | 0.277 | 0.8 | 433 | 0.63 | 549 |
| 60 | 0 | 0 | 0 | 0.277 | 0.96 | 361 | 0.77 | 449 |
| 70 | 0 | 0 | 0 | 0.277 | 1.11 | 311 | 0.92 | 376 |
| 80 | 0 | 0 | 0 | 0.277 | 1.26 | 275 | 1.07 | 324 |
| 90 | 0 | 0 | 0 | 0.277 | 1.36 | 254 | 1.21 | 286 |
| 100 | 0 | 0 | 0 | 0.277 | 1.44 | 241 | 1.35 | 258 |
| 110 | 0 | 0 | 0 | 0.277 | 1.51 | 230 | 1.47 | 235 |
| 120 | 0 | 0 | 0 | 0.277 | 1.58 | 219 | 1.55 | 223 |
| 130 | 0 | 0 | 0 | 0.277 | 1.65 | 210 | 1.62 | 214 |
| 167 | 0 | 0 | 0 | 0.277 | 1.9 | 183 | 1.87 | 185 |
| 212 | 0 | 0 | 0 | 0.277 | 2.17 | 160 | 2.14 | 162 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 2.52 | 925 | 2.33 | 1000* |
| 25 | 0 | 0 | 0 | 0.277 | 2.12 | 653 | 1.84 | 753 |
| 30 | 0 | 0 | 0 | 0.277 | 2.25 | 616 | 1.95 | 709 |
| 40 | 0 | 0 | 0 | 0.277 | 2.5 | 554 | 2.19 | 634 |
| 50 | 0 | 0 | 0 | 0.277 | 2.75 | 504 | 2.42 | 572 |
| 60 | 0 | 0 | 0 | 0.277 | 2.98 | 465 | 2.65 | 522 |
| 70 | 0 | 0 | 0 | 0.277 | 3.21 | 432 | 2.88 | 481 |
| 80 | 0 | 0 | 0 | 0.277 | 3.43 | 405 | 3.1 | 447 |
| 90 | 0 | 0 | 0 | 0.277 | 3.63 | 382 | 3.31 | 418 |
| 100 | 0 | 0 | 0 | 0.277 | 3.83 | 362 | 3.52 | 394 |
| 110 | 0 | 0 | 0 | 0.277 | 3.95 | 351 | 3.72 | 373 |
| 120 | 0 | 0 | 0 | 0.277 | 4.07 | 341 | 3.91 | 355 |
| 130 | 0 | 0 | 0 | 0.277 | 4.18 | 332 | 4.09 | 339 |
| 167 | 0 | 0 | 0 | 0.277 | 4.57 | 304 | 4.53 | 307 |
| 212 | 0 | 0 | 0 | 0.277 | 5.02 | 276 | 4.98 | 279 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 5.53 | 951 | 5.25 | 1000* |
| 25 | 0 | 0 | 0 | 0.277 | 5.04 | 618 | 4.64 | 673 |
| 30 | 0 | 0 | 0 | 0.277 | 5.2 | 600 | 4.78 | 652 |
| 40 | 0 | 0 | 0 | 0.277 | 5.49 | 568 | 5.08 | 615 |
| 50 | 0 | 0 | 0 | 0.277 | 5.78 | 540 | 5.36 | 582 |
| 60 | 0 | 0 | 0 | 0.277 | 6.05 | 516 | 5.64 | 554 |
| 70 | 0 | 0 | 0 | 0.277 | 6.32 | 494 | 5.91 | 528 |
| 80 | 0 | 0 | 0 | 0.277 | 6.58 | 474 | 6.17 | 506 |
| 90 | 0 | 0 | 0 | 0.277 | 6.84 | 457 | 6.43 | 486 |
| 100 | 0 | 0 | 0 | 0.277 | 7.08 | 441 | 6.67 | 468 |
| 110 | 0 | 0 | 0 | 0.277 | 7.32 | 427 | 6.92 | 451 |
| 120 | 0 | 0 | 0 | 0.277 | 7.48 | 418 | 7.15 | 437 |
| 130 | 0 | 0 | 0 | 0.277 | 7.62 | 410 | 7.38 | 423 |
| 167 | 0 | 0 | 0 | 0.277 | 8.12 | 385 | 8.07 | 387 |
| 212 | 0 | 0 | 0 | 0.277 | 8.71 | 359 | 8.66 | 361 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 9.67 | 967 | 9.35 | 1000* |
| 25 | 0 | 0 | 0 | 0.277 | 9.15 | 607 | 8.69 | 639 |
| 30 | 0 | 0 | 0 | 0.277 | 9.31 | 596 | 8.84 | 628 |
| 40 | 0 | 0 | 0 | 0.277 | 9.63 | 577 | 9.16 | 606 |
| 50 | 0 | 0 | 0 | 0.277 | 9.93 | 559 | 9.46 | 587 |
| 60 | 0 | 0 | 0 | 0.277 | 10.23 | 543 | 9.76 | 569 |
| 70 | 0 | 0 | 0 | 0.277 | 10.53 | 528 | 10.06 | 552 |
| 80 | 0 | 0 | 0 | 0.277 | 10.81 | 514 | 10.35 | 537 |
| 90 | 0 | 0 | 0 | 0.277 | 11.09 | 501 | 10.63 | 523 |
| 100 | 0 | 0 | 0 | 0.277 | 11.37 | 489 | 10.9 | 510 |
| 110 | 0 | 0 | 0 | 0.277 | 11.64 | 478 | 11.17 | 497 |
| 120 | 0 | 0 | 0 | 0.277 | 11.9 | 467 | 11.44 | 486 |
| 130 | 0 | 0 | 0 | 0.277 | 12.07 | 461 | 11.7 | 475 |
| 167 | 0 | 0 | 0 | 0.277 | 12.65 | 440 | 12.59 | 442 |
| 212 | 0 | 0 | 0 | 0.277 | 13.34 | 417 | 13.28 | 419 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 14.98 | 977 | 14.63 | 1000* |
| 25 | 0 | 0 | 0 | 0.277 | 14.43 | 602 | 13.94 | 623 |
| 30 | 0 | 0 | 0 | 0.277 | 14.6 | 595 | 14.11 | 616 |
| 40 | 0 | 0 | 0 | 0.277 | 14.93 | 582 | 14.43 | 602 |
| 50 | 0 | 0 | 0 | 0.277 | 15.25 | 570 | 14.75 | 589 |
| 60 | 0 | 0 | 0 | 0.277 | 15.56 | 558 | 15.06 | 577 |
| 70 | 0 | 0 | 0 | 0.277 | 15.87 | 548 | 15.37 | 565 |
| 80 | 0 | 0 | 0 | 0.277 | 16.17 | 537 | 15.67 | 555 |
| 90 | 0 | 0 | 0 | 0.277 | 16.47 | 528 | 15.97 | 544 |
| 100 | 0 | 0 | 0 | 0.277 | 16.77 | 519 | 16.26 | 535 |
| 110 | 0 | 0 | 0 | 0.277 | 17.06 | 510 | 16.55 | 525 |
| 120 | 0 | 0 | 0 | 0.277 | 17.34 | 502 | 16.84 | 516 |
| 130 | 0 | 0 | 0 | 0.277 | 17.58 | 495 | 17.12 | 508 |
| 167 | 0 | 0 | 0 | 0.277 | 18.23 | 477 | 18.13 | 480 |
| 212 | 0 | 0 | 0 | 0.277 | 18.99 | 459 | 18.93 | 460 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 |
| 125.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 |
| 150.00 | 0-9 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 | 3-0 | 3-4 |
| 175.00 | 1-1 | 1-3 | 1-7 | 1-11 | 2-4 | 2-10 | 3-3 | 3-9 | 4-1 | 4-6 |
| 200.00 | 1-5 | 1-8 | 2-1 | 2-6 | 3-1 | 3-8 | 4-3 | 4-10 | 5-5 | 5-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-7 | 0-9 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-2 | 2-3 | 2-4 |
| 150.00 | 0-11 | 1-2 | 1-5 | 1-10 | 2-2 | 2-6 | 2-10 | 3-1 | 3-3 | 3-5 |
| 175.00 | 1-3 | 1-7 | 2-0 | 2-5 | 2-11 | 3-5 | 3-10 | 4-2 | 4-5 | 4-8 |
| 200.00 | 1-7 | 2-0 | 2-7 | 3-2 | 3-10 | 4-6 | 5-1 | 5-5 | 5-9 | 6-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.5

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 150.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 |
| 175.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 200.00 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 |
| 225.00 | 2-2 | 2-6 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 |
| 250.00 | 2-8 | 3-1 | 3-5 | 3-9 | 4-2 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 |
| 175.00 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 3-11 |
| 225.00 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 |
| 250.00 | 3-1 | 3-6 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.6

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 |
| 175.00 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 200.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 |
| 225.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 |
| 250.00 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 |
| 275.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-10 |
| 300.00 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 |
| 325.00 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 | 8-1 |
| 350.00 | 6-1 | 6-6 | 6-11 | 7-4 | 7-8 | 8-1 | 8-5 | 8-9 | 9-1 | 9-5 |
| 375.00 | 7-0 | 7-6 | 7-11 | 8-5 | 8-10 | 9-3 | 9-8 | 10-1 | 10-5 | 10-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 200.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 |
| 225.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 |
| 250.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 |
| 275.00 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 |
| 300.00 | 4-11 | 5-2 | 5-6 | 5-9 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 325.00 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-9 | 8-0 | 8-4 | 8-7 |
| 350.00 | 6-8 | 7-1 | 7-6 | 7-10 | 8-3 | 8-7 | 9-0 | 9-4 | 9-8 | 10-0 |
| 375.00 | 7-8 | 8-1 | 8-7 | 9-0 | 9-6 | 9-11 | 10-3 | 10-8 | 11-1 | 11-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.7

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 225.00 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 250.00 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 |
| 275.00 | 4-0 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 |
| 300.00 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 |
| 325.00 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 |
| 350.00 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 |
| 375.00 | 7-6 | 7-9 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 |
| 400.00 | 8-6 | 8-10 | 9-2 | 9-6 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-2 |
| 425.00 | 9-7 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 | 11-8 | 12-0 | 12-4 | 12-7 |
| 450.00 | 10-9 | 11-2 | 11-7 | 12-0 | 12-4 | 12-9 | 13-1 | 13-5 | 13-10 | 14-2 |
| 475.00 | 12-0 | 12-6 | 12-11 | 13-4 | 13-9 | 14-2 | 14-7 | 15-0 | 15-5 | 15-9 |
| 500.00 | 13-4 | 13-10 | 14-4 | 14-10 | 15-3 | 15-9 | 16-2 | 16-7 | 17-1 | 17-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 |
| 225.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 250.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 |
| 275.00 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 | 5-6 |
| 300.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 |
| 325.00 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 |
| 350.00 | 6-11 | 7-2 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 |
| 375.00 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 |
| 400.00 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-6 | 10-10 | 11-1 | 11-4 | 11-8 |
| 425.00 | 10-2 | 10-6 | 10-10 | 11-3 | 11-7 | 11-11 | 12-3 | 12-6 | 12-10 | 13-2 |
| 450.00 | 11-5 | 11-9 | 12-2 | 12-7 | 12-11 | 13-4 | 13-8 | 14-1 | 14-5 | 14-9 |
| 475.00 | 12-8 | 13-2 | 13-7 | 14-0 | 14-5 | 14-10 | 15-3 | 15-8 | 16-0 | 16-5 |
| 500.00 | 14-1 | 14-7 | 15-1 | 15-6 | 16-0 | 16-5 | 16-11 | 17-4 | 17-9 | 18-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 275.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 |
| 300.00 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 |
| 325.00 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 |
| 350.00 | 6-9 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-1 |
| 375.00 | 7-9 | 7-11 | 8-1 | 8-3 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 |
| 400.00 | 8-10 | 9-0 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 | 10-3 | 10-5 | 10-7 |
| 425.00 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 |
| 450.00 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 |
| 475.00 | 12-5 | 12-9 | 13-0 | 13-4 | 13-7 | 13-10 | 14-2 | 14-5 | 14-8 | 14-11 |
| 500.00 | 13-9 | 14-1 | 14-5 | 14-9 | 15-1 | 15-4 | 15-8 | 16-0 | 16-3 | 16-7 |
| 525.00 | 15-2 | 15-7 | 15-11 | 16-3 | 16-7 | 16-11 | 17-3 | 17-7 | 17-11 | 18-3 |
| 550.00 | 16-8 | 17-1 | 17-6 | 17-10 | 18-3 | 18-7 | 19-0 | 19-4 | 19-8 | 20-0 |
| 575.00 | 18-3 | 18-8 | 19-1 | 19-6 | 19-11 | 20-4 | 20-9 | 21-2 | 21-6 | 21-11 |
| 600.00 | 19-10 | 20-4 | 20-9 | 21-3 | 21-8 | 22-2 | 22-7 | 23-0 | 23-5 | 23-10 |
| 625.00 | 21-6 | 22-1 | 22-7 | 23-1 | 23-7 | 24-0 | 24-6 | 25-0 | 25-5 | 25-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-3 |
| 275.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 |
| 300.00 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 |
| 325.00 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 |
| 350.00 | 7-0 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 |
| 375.00 | 8-0 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 |
| 400.00 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 | 10-9 | 10-11 |
| 425.00 | 10-4 | 10-7 | 10-9 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 | 12-1 | 12-4 |
| 450.00 | 11-7 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 |
| 475.00 | 12-11 | 13-2 | 13-6 | 13-9 | 14-0 | 14-4 | 14-7 | 14-10 | 15-2 | 15-5 |
| 500.00 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-10 | 16-2 | 16-6 | 16-9 | 17-1 |
| 525.00 | 15-9 | 16-1 | 16-5 | 16-10 | 17-2 | 17-6 | 17-10 | 18-2 | 18-6 | 18-10 |
| 550.00 | 17-3 | 17-8 | 18-1 | 18-5 | 18-10 | 19-2 | 19-7 | 19-11 | 20-4 | 20-8 |
| 575.00 | 18-11 | 19-4 | 19-9 | 20-2 | 20-7 | 21-0 | 21-5 | 21-10 | 22-2 | 22-7 |
| 600.00 | 20-7 | 21-0 | 21-6 | 22-0 | 22-5 | 22-10 | 23-4 | 23-9 | 24-2 | 24-7 |
| 625.00 | 22-4 | 22-10 | 23-4 | 23-10 | 24-4 | 24-10 | 25-3 | 25-9 | 26-3 | 26-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 0.43 | 1354 | 0.39 | 1500* |
| 25 | 0 | 0 | 0 | 0.277 | 0.27 | 1287 | 0.24 | 1457 |
| 30 | 0 | 0 | 0 | 0.277 | 0.29 | 1176 | 0.25 | 1371 |
| 40 | 0 | 0 | 0 | 0.277 | 0.36 | 963 | 0.29 | 1198 |
| 50 | 0 | 0 | 0 | 0.277 | 0.45 | 769 | 0.34 | 1026 |
| 60 | 0 | 0 | 0 | 0.277 | 0.57 | 604 | 0.4 | 860 |
| 70 | 0 | 0 | 0 | 0.277 | 0.72 | 480 | 0.49 | 705 |
| 80 | 0 | 0 | 0 | 0.277 | 0.88 | 393 | 0.61 | 571 |
| 90 | 0 | 0 | 0 | 0.277 | 1.03 | 338 | 0.74 | 465 |
| 100 | 0 | 0 | 0 | 0.277 | 1.1 | 315 | 0.89 | 387 |
| 110 | 0 | 0 | 0 | 0.277 | 1.18 | 294 | 1.04 | 332 |
| 120 | 0 | 0 | 0 | 0.277 | 1.25 | 277 | 1.19 | 292 |
| 130 | 0 | 0 | 0 | 0.277 | 1.33 | 261 | 1.29 | 269 |
| 167 | 0 | 0 | 0 | 0.277 | 1.6 | 217 | 1.56 | 223 |
| 212 | 0 | 0 | 0 | 0.277 | 1.9 | 183 | 1.86 | 187 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 1.72 | 1358 | 1.56 | 1500* |
| 25 | 0 | 0 | 0 | 0.277 | 1.21 | 1141 | 1.03 | 1344 |
| 30 | 0 | 0 | 0 | 0.277 | 1.31 | 1058 | 1.09 | 1269 |
| 40 | 0 | 0 | 0 | 0.277 | 1.52 | 909 | 1.23 | 1124 |
| 50 | 0 | 0 | 0 | 0.277 | 1.76 | 786 | 1.4 | 989 |
| 60 | 0 | 0 | 0 | 0.277 | 2.02 | 688 | 1.59 | 869 |
| 70 | 0 | 0 | 0 | 0.277 | 2.27 | 610 | 1.81 | 766 |
| 80 | 0 | 0 | 0 | 0.277 | 2.52 | 549 | 2.04 | 680 |
| 90 | 0 | 0 | 0 | 0.277 | 2.77 | 501 | 2.28 | 609 |
| 100 | 0 | 0 | 0 | 0.277 | 3 | 462 | 2.51 | 552 |
| 110 | 0 | 0 | 0 | 0.277 | 3.18 | 435 | 2.74 | 505 |
| 120 | 0 | 0 | 0 | 0.277 | 3.3 | 420 | 2.97 | 467 |
| 130 | 0 | 0 | 0 | 0.277 | 3.42 | 405 | 3.19 | 435 |
| 167 | 0 | 0 | 0 | 0.277 | 3.85 | 360 | 3.79 | 366 |
| 212 | 0 | 0 | 0 | 0.277 | 4.35 | 319 | 4.29 | 324 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 3.8 | 1383 | 3.5 | 1500* |
| 25 | 0 | 0 | 0 | 0.277 | 3.01 | 1034 | 2.57 | 1211 |
| 30 | 0 | 0 | 0 | 0.277 | 3.18 | 981 | 2.7 | 1154 |
| 40 | 0 | 0 | 0 | 0.277 | 3.51 | 888 | 2.97 | 1050 |
| 50 | 0 | 0 | 0 | 0.277 | 3.85 | 811 | 3.26 | 957 |
| 60 | 0 | 0 | 0 | 0.277 | 4.18 | 747 | 3.56 | 876 |
| 70 | 0 | 0 | 0 | 0.277 | 4.5 | 693 | 3.86 | 807 |
| 80 | 0 | 0 | 0 | 0.277 | 4.82 | 647 | 4.17 | 748 |
| 90 | 0 | 0 | 0 | 0.277 | 5.13 | 609 | 4.48 | 697 |
| 100 | 0 | 0 | 0 | 0.277 | 5.42 | 575 | 4.78 | 653 |
| 110 | 0 | 0 | 0 | 0.277 | 5.71 | 546 | 5.07 | 615 |
| 120 | 0 | 0 | 0 | 0.277 | 5.99 | 521 | 5.36 | 582 |
| 130 | 0 | 0 | 0 | 0.277 | 6.15 | 508 | 5.64 | 554 |
| 167 | 0 | 0 | 0 | 0.277 | 6.7 | 466 | 6.61 | 473 |
| 212 | 0 | 0 | 0 | 0.277 | 7.36 | 425 | 7.28 | 429 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 6.64 | 1408 | 6.23 | 1500* |
| 25 | 0 | 0 | 0 | 0.277 | 5.68 | 976 | 5.01 | 1106 |
| 30 | 0 | 0 | 0 | 0.277 | 5.88 | 943 | 5.19 | 1067 |
| 40 | 0 | 0 | 0 | 0.277 | 6.28 | 883 | 5.56 | 997 |
| 50 | 0 | 0 | 0 | 0.277 | 6.67 | 831 | 5.93 | 935 |
| 60 | 0 | 0 | 0 | 0.277 | 7.06 | 786 | 6.3 | 881 |
| 70 | 0 | 0 | 0 | 0.277 | 7.43 | 747 | 6.66 | 833 |
| 80 | 0 | 0 | 0 | 0.277 | 7.8 | 712 | 7.02 | 790 |
| 90 | 0 | 0 | 0 | 0.277 | 8.15 | 681 | 7.38 | 752 |
| 100 | 0 | 0 | 0 | 0.277 | 8.49 | 653 | 7.72 | 718 |
| 110 | 0 | 0 | 0 | 0.277 | 8.83 | 629 | 8.06 | 688 |
| 120 | 0 | 0 | 0 | 0.277 | 9.16 | 606 | 8.4 | 661 |
| 130 | 0 | 0 | 0 | 0.277 | 9.48 | 586 | 8.72 | 636 |
| 167 | 0 | 0 | 0 | 0.277 | 10.16 | 547 | 9.87 | 563 |
| 212 | 0 | 0 | 0 | 0.277 | 10.94 | 508 | 10.85 | 512 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 10.23 | 1428 | 9.73 | 1500* |
| 25 | 0 | 0 | 0 | 0.277 | 9.17 | 946 | 8.36 | 1037 |
| 30 | 0 | 0 | 0 | 0.277 | 9.39 | 923 | 8.57 | 1012 |
| 40 | 0 | 0 | 0 | 0.277 | 9.83 | 882 | 8.99 | 965 |
| 50 | 0 | 0 | 0 | 0.277 | 10.25 | 846 | 9.4 | 922 |
| 60 | 0 | 0 | 0 | 0.277 | 10.67 | 813 | 9.81 | 884 |
| 70 | 0 | 0 | 0 | 0.277 | 11.08 | 783 | 10.21 | 849 |
| 80 | 0 | 0 | 0 | 0.277 | 11.48 | 756 | 10.61 | 817 |
| 90 | 0 | 0 | 0 | 0.277 | 11.87 | 731 | 11 | 788 |
| 100 | 0 | 0 | 0 | 0.277 | 12.25 | 708 | 11.38 | 762 |
| 110 | 0 | 0 | 0 | 0.277 | 12.62 | 688 | 11.76 | 738 |
| 120 | 0 | 0 | 0 | 0.277 | 12.99 | 668 | 12.13 | 715 |
| 130 | 0 | 0 | 0 | 0.277 | 13.34 | 651 | 12.49 | 695 |
| 167 | 0 | 0 | 0 | 0.277 | 14.26 | 609 | 13.77 | 630 |
| 212 | 0 | 0 | 0 | 0.277 | 15.15 | 573 | 15.05 | 577 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.12

Stringing Sag Table Using Initial Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-4 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 | 2-3 | 2-9 | 3-2 |
| 200.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 2-0 | 2-5 | 3-0 | 3-7 | 4-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-11 | 1-2 | 1-5 | 1-7 | 1-9 | 1-10 |
| 150.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-4 | 2-6 | 2-8 |
| 175.00 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 2-3 | 2-8 | 3-2 | 3-4 | 3-7 |
| 200.00 | 1-0 | 1-2 | 1-5 | 1-10 | 2-4 | 2-11 | 3-6 | 4-1 | 4-5 | 4-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 |
| 200.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 |
| 225.00 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-2 | 3-6 |
| 250.00 | 1-6 | 1-8 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-7 | 3-11 | 4-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-9 |
| 175.00 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-5 |
| 200.00 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 |
| 225.00 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 | 4-0 |
| 250.00 | 1-9 | 2-1 | 2-5 | 2-9 | 3-2 | 3-7 | 3-11 | 4-4 | 4-8 | 5-0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 200.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 225.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 250.00 | 1-8 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 |
| 275.00 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 |
| 300.00 | 2-5 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-6 | 4-9 | 5-1 |
| 325.00 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 |
| 350.00 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 | 6-1 | 6-6 | 6-11 |
| 375.00 | 3-10 | 4-3 | 4-8 | 5-1 | 5-7 | 6-0 | 6-6 | 7-0 | 7-6 | 7-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-3 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 |
| 225.00 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-1 | 3-3 |
| 250.00 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 |
| 275.00 | 2-5 | 2-8 | 2-11 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 |
| 300.00 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 | 5-5 | 5-9 |
| 325.00 | 3-4 | 3-9 | 4-1 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-8 |
| 350.00 | 3-11 | 4-4 | 4-9 | 5-3 | 5-8 | 6-2 | 6-7 | 7-0 | 7-5 | 7-9 |
| 375.00 | 4-6 | 5-0 | 5-6 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-6 | 8-11 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 225.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 |
| 250.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 |
| 275.00 | 2-3 | 2-5 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 300.00 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 |
| 325.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 |
| 350.00 | 3-8 | 4-0 | 4-3 | 4-6 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 |
| 375.00 | 4-3 | 4-7 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 |
| 400.00 | 4-10 | 5-2 | 5-7 | 5-11 | 6-4 | 6-8 | 7-0 | 7-5 | 7-9 | 8-1 |
| 425.00 | 5-6 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 | 9-1 |
| 450.00 | 6-1 | 6-7 | 7-0 | 7-6 | 8-0 | 8-5 | 8-11 | 9-4 | 9-9 | 10-2 |
| 475.00 | 6-10 | 7-4 | 7-10 | 8-4 | 8-11 | 9-5 | 9-11 | 10-5 | 10-11 | 11-4 |
| 500.00 | 7-7 | 8-1 | 8-8 | 9-3 | 9-10 | 10-5 | 11-0 | 11-6 | 12-1 | 12-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 |
| 250.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 |
| 275.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 300.00 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 5-0 |
| 325.00 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 |
| 350.00 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 |
| 375.00 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-6 | 7-9 |
| 400.00 | 5-6 | 5-11 | 6-3 | 6-8 | 7-1 | 7-5 | 7-10 | 8-2 | 8-6 | 8-10 |
| 425.00 | 6-2 | 6-8 | 7-1 | 7-6 | 8-0 | 8-5 | 8-10 | 9-2 | 9-7 | 10-0 |
| 450.00 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-5 | 9-10 | 10-4 | 10-9 | 11-2 |
| 475.00 | 7-9 | 8-4 | 8-10 | 9-5 | 9-11 | 10-6 | 11-0 | 11-6 | 12-0 | 12-5 |
| 500.00 | 8-7 | 9-2 | 9-10 | 10-5 | 11-0 | 11-7 | 12-2 | 12-9 | 13-3 | 13-10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 275.00 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-7 |
| 300.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 |
| 325.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 350.00 | 4-0 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 |
| 375.00 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 |
| 400.00 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 |
| 425.00 | 5-11 | 6-2 | 6-6 | 6-9 | 7-1 | 7-5 | 7-8 | 7-11 | 8-3 | 8-6 |
| 450.00 | 6-7 | 6-11 | 7-3 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 | 9-6 |
| 475.00 | 7-4 | 7-9 | 8-1 | 8-6 | 8-10 | 9-3 | 9-7 | 9-11 | 10-3 | 10-7 |
| 500.00 | 8-2 | 8-7 | 9-0 | 9-5 | 9-10 | 10-3 | 10-7 | 11-0 | 11-5 | 11-9 |
| 525.00 | 9-0 | 9-5 | 9-11 | 10-4 | 10-10 | 11-3 | 11-8 | 12-2 | 12-7 | 13-0 |
| 550.00 | 9-10 | 10-4 | 10-10 | 11-5 | 11-10 | 12-4 | 12-10 | 13-4 | 13-9 | 14-3 |
| 575.00 | 10-9 | 11-4 | 11-11 | 12-5 | 13-0 | 13-6 | 14-0 | 14-7 | 15-1 | 15-7 |
| 600.00 | 11-9 | 12-4 | 12-11 | 13-6 | 14-2 | 14-9 | 15-3 | 15-10 | 16-5 | 16-11 |
| 625.00 | 12-9 | 13-5 | 14-1 | 14-8 | 15-4 | 16-0 | 16-7 | 17-2 | 17-10 | 18-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 |
| 275.00 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-10 |
| 300.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 |
| 325.00 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 |
| 350.00 | 4-5 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-10 | 6-0 | 6-2 |
| 375.00 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-11 | 7-1 |
| 400.00 | 5-9 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 |
| 425.00 | 6-6 | 6-9 | 7-1 | 7-5 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 | 9-1 |
| 450.00 | 7-3 | 7-7 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 | 9-7 | 9-11 | 10-3 |
| 475.00 | 8-1 | 8-6 | 8-10 | 9-3 | 9-8 | 10-0 | 10-4 | 10-9 | 11-1 | 11-5 |
| 500.00 | 8-11 | 9-5 | 9-10 | 10-3 | 10-8 | 11-1 | 11-6 | 11-10 | 12-3 | 12-7 |
| 525.00 | 9-10 | 10-4 | 10-10 | 11-4 | 11-9 | 12-3 | 12-8 | 13-1 | 13-6 | 13-11 |
| 550.00 | 10-10 | 11-4 | 11-11 | 12-5 | 12-11 | 13-5 | 13-11 | 14-4 | 14-10 | 15-3 |
| 575.00 | 11-10 | 12-5 | 13-0 | 13-7 | 14-1 | 14-8 | 15-2 | 15-8 | 16-2 | 16-8 |
| 600.00 | 12-11 | 13-6 | 14-2 | 14-9 | 15-4 | 16-0 | 16-6 | 17-1 | 17-8 | 18-2 |
| 625.00 | 14-0 | 14-8 | 15-4 | 16-0 | 16-8 | 17-4 | 17-11 | 18-7 | 19-2 | 19-9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 0.33 | 1771 | 0.29 | 2000* |
| 25 | 0 | 0 | 0 | 0.277 | 0.2 | 1731 | 0.18 | 1976 |
| 30 | 0 | 0 | 0 | 0.277 | 0.21 | 1615 | 0.18 | 1893 |
| 40 | 0 | 0 | 0 | 0.277 | 0.25 | 1387 | 0.2 | 1724 |
| 50 | 0 | 0 | 0 | 0.277 | 0.3 | 1164 | 0.22 | 1552 |
| 60 | 0 | 0 | 0 | 0.277 | 0.36 | 952 | 0.25 | 1379 |
| 70 | 0 | 0 | 0 | 0.277 | 0.46 | 759 | 0.29 | 1204 |
| 80 | 0 | 0 | 0 | 0.277 | 0.58 | 597 | 0.34 | 1030 |
| 90 | 0 | 0 | 0 | 0.277 | 0.73 | 474 | 0.4 | 862 |
| 100 | 0 | 0 | 0 | 0.277 | 0.81 | 428 | 0.49 | 705 |
| 110 | 0 | 0 | 0 | 0.277 | 0.88 | 395 | 0.61 | 570 |
| 120 | 0 | 0 | 0 | 0.277 | 0.95 | 366 | 0.75 | 464 |
| 130 | 0 | 0 | 0 | 0.277 | 1.02 | 339 | 0.9 | 386 |
| 167 | 0 | 0 | 0 | 0.277 | 1.3 | 266 | 1.23 | 281 |
| 212 | 0 | 0 | 0 | 0.277 | 1.63 | 213 | 1.56 | 222 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 1.31 | 1783 | 1.17 | 2000* |
| 25 | 0 | 0 | 0 | 0.277 | 0.85 | 1637 | 0.73 | 1909 |
| 30 | 0 | 0 | 0 | 0.277 | 0.9 | 1533 | 0.76 | 1829 |
| 40 | 0 | 0 | 0 | 0.277 | 1.04 | 1334 | 0.83 | 1669 |
| 50 | 0 | 0 | 0 | 0.277 | 1.2 | 1150 | 0.92 | 1509 |
| 60 | 0 | 0 | 0 | 0.277 | 1.4 | 988 | 1.02 | 1352 |
| 70 | 0 | 0 | 0 | 0.277 | 1.63 | 851 | 1.15 | 1201 |
| 80 | 0 | 0 | 0 | 0.277 | 1.87 | 739 | 1.31 | 1059 |
| 90 | 0 | 0 | 0 | 0.277 | 2.13 | 651 | 1.49 | 930 |
| 100 | 0 | 0 | 0 | 0.277 | 2.38 | 581 | 1.7 | 816 |
| 110 | 0 | 0 | 0 | 0.277 | 2.6 | 532 | 1.92 | 721 |
| 120 | 0 | 0 | 0 | 0.277 | 2.72 | 509 | 2.16 | 642 |
| 130 | 0 | 0 | 0 | 0.277 | 2.84 | 488 | 2.4 | 578 |
| 167 | 0 | 0 | 0 | 0.277 | 3.29 | 422 | 3.19 | 434 |
| 212 | 0 | 0 | 0 | 0.277 | 3.82 | 364 | 3.72 | 373 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 2.91 | 1806 | 2.62 | 2000* |
| 25 | 0 | 0 | 0 | 0.277 | 2.04 | 1527 | 1.72 | 1809 |
| 30 | 0 | 0 | 0 | 0.277 | 2.16 | 1441 | 1.8 | 1735 |
| 40 | 0 | 0 | 0 | 0.277 | 2.43 | 1283 | 1.96 | 1591 |
| 50 | 0 | 0 | 0 | 0.277 | 2.72 | 1144 | 2.15 | 1452 |
| 60 | 0 | 0 | 0 | 0.277 | 3.04 | 1025 | 2.36 | 1320 |
| 70 | 0 | 0 | 0 | 0.277 | 3.37 | 925 | 2.6 | 1198 |
| 80 | 0 | 0 | 0 | 0.277 | 3.7 | 842 | 2.87 | 1088 |
| 90 | 0 | 0 | 0 | 0.277 | 4.04 | 772 | 3.15 | 989 |
| 100 | 0 | 0 | 0 | 0.277 | 4.37 | 714 | 3.45 | 904 |
| 110 | 0 | 0 | 0 | 0.277 | 4.69 | 665 | 3.76 | 830 |
| 120 | 0 | 0 | 0 | 0.277 | 5 | 624 | 4.07 | 767 |
| 130 | 0 | 0 | 0 | 0.277 | 5.19 | 601 | 4.38 | 713 |
| 167 | 0 | 0 | 0 | 0.277 | 5.78 | 540 | 5.47 | 571 |
| 212 | 0 | 0 | 0 | 0.277 | 6.47 | 483 | 6.35 | 492 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 5.09 | 1833 | 4.67 | 2000* |
| 25 | 0 | 0 | 0 | 0.277 | 3.87 | 1432 | 3.27 | 1694 |
| 30 | 0 | 0 | 0 | 0.277 | 4.06 | 1367 | 3.4 | 1631 |
| 40 | 0 | 0 | 0 | 0.277 | 4.44 | 1248 | 3.67 | 1509 |
| 50 | 0 | 0 | 0 | 0.277 | 4.84 | 1146 | 3.97 | 1396 |
| 60 | 0 | 0 | 0 | 0.277 | 5.24 | 1057 | 4.29 | 1291 |
| 70 | 0 | 0 | 0 | 0.277 | 5.65 | 982 | 4.64 | 1196 |
| 80 | 0 | 0 | 0 | 0.277 | 6.05 | 916 | 4.99 | 1111 |
| 90 | 0 | 0 | 0 | 0.277 | 6.45 | 860 | 5.36 | 1035 |
| 100 | 0 | 0 | 0 | 0.277 | 6.84 | 811 | 5.73 | 968 |
| 110 | 0 | 0 | 0 | 0.277 | 7.22 | 769 | 6.1 | 909 |
| 120 | 0 | 0 | 0 | 0.277 | 7.59 | 731 | 6.47 | 857 |
| 130 | 0 | 0 | 0 | 0.277 | 7.95 | 698 | 6.84 | 811 |
| 167 | 0 | 0 | 0 | 0.277 | 8.74 | 635 | 8.13 | 682 |
| 212 | 0 | 0 | 0 | 0.277 | 9.57 | 580 | 9.43 | 589 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 7.85 | 1859 | 7.3 | 2000* |
| 25 | 0 | 0 | 0 | 0.277 | 6.36 | 1362 | 5.46 | 1585 |
| 30 | 0 | 0 | 0 | 0.277 | 6.59 | 1314 | 5.65 | 1534 |
| 40 | 0 | 0 | 0 | 0.277 | 7.06 | 1227 | 6.03 | 1437 |
| 50 | 0 | 0 | 0 | 0.277 | 7.53 | 1150 | 6.42 | 1348 |
| 60 | 0 | 0 | 0 | 0.277 | 8 | 1083 | 6.84 | 1267 |
| 70 | 0 | 0 | 0 | 0.277 | 8.46 | 1024 | 7.26 | 1194 |
| 80 | 0 | 0 | 0 | 0.277 | 8.92 | 972 | 7.68 | 1128 |
| 90 | 0 | 0 | 0 | 0.277 | 9.37 | 925 | 8.11 | 1069 |
| 100 | 0 | 0 | 0 | 0.277 | 9.81 | 884 | 8.54 | 1015 |
| 110 | 0 | 0 | 0 | 0.277 | 10.23 | 847 | 8.96 | 967 |
| 120 | 0 | 0 | 0 | 0.277 | 10.65 | 814 | 9.38 | 924 |
| 130 | 0 | 0 | 0 | 0.277 | 11.06 | 784 | 9.79 | 885 |
| 167 | 0 | 0 | 0 | 0.277 | 12.17 | 713 | 11.27 | 770 |
| 212 | 0 | 0 | 0 | 0.277 | 13.12 | 661 | 12.92 | 672 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 2-0 | 2-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-9 | 0-10 | 0-11 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-4 | 1-8 | 1-10 | 2-0 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 2-3 | 2-6 | 2-8 |
| 200.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-10 | 2-4 | 2-11 | 3-3 | 3-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.21

Stringing Sag Table Using Initial Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 |
| 250.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 | 2-8 | 3-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 |
| 175.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-10 | 2-0 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 | 2-2 | 2-5 | 2-7 |
| 225.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 |
| 250.00 | 1-3 | 1-5 | 1-7 | 1-11 | 2-2 | 2-7 | 2-11 | 3-4 | 3-9 | 4-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 200.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 |
| 275.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 |
| 300.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-9 |
| 325.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-1 | 3-4 | 3-8 | 4-1 | 4-5 |
| 350.00 | 2-3 | 2-5 | 2-8 | 2-11 | 3-3 | 3-6 | 3-11 | 4-3 | 4-8 | 5-1 |
| 375.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-1 | 4-6 | 4-11 | 5-5 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 200.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 |
| 225.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 |
| 250.00 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-0 | 3-3 |
| 275.00 | 1-7 | 1-10 | 2-0 | 2-3 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 |
| 300.00 | 1-11 | 2-2 | 2-5 | 2-9 | 3-0 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 |
| 325.00 | 2-3 | 2-6 | 2-10 | 3-2 | 3-7 | 3-11 | 4-4 | 4-9 | 5-2 | 5-6 |
| 350.00 | 2-7 | 2-11 | 3-4 | 3-8 | 4-2 | 4-7 | 5-1 | 5-6 | 5-11 | 6-5 |
| 375.00 | 3-0 | 3-5 | 3-10 | 4-3 | 4-9 | 5-3 | 5-9 | 6-4 | 6-10 | 7-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 |
| 250.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 |
| 275.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 |
| 300.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 |
| 325.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 |
| 350.00 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 | 4-5 | 4-8 |
| 375.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-8 | 5-0 | 5-4 |
| 400.00 | 3-2 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-9 | 6-1 |
| 425.00 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 | 5-8 | 6-1 | 6-6 | 6-11 |
| 450.00 | 4-0 | 4-4 | 4-8 | 5-0 | 5-5 | 5-10 | 6-4 | 6-9 | 7-3 | 7-9 |
| 475.00 | 4-5 | 4-10 | 5-2 | 5-7 | 6-1 | 6-6 | 7-0 | 7-7 | 8-1 | 8-7 |
| 500.00 | 4-11 | 5-4 | 5-9 | 6-2 | 6-9 | 7-3 | 7-10 | 8-4 | 8-11 | 9-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 |
| 225.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 |
| 250.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 275.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 |
| 300.00 | 2-1 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 |
| 325.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 |
| 350.00 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 |
| 375.00 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 |
| 400.00 | 3-8 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 | 6-1 | 6-5 | 6-10 | 7-3 |
| 425.00 | 4-2 | 4-7 | 5-0 | 5-6 | 5-11 | 6-5 | 6-10 | 7-3 | 7-9 | 8-2 |
| 450.00 | 4-8 | 5-2 | 5-7 | 6-1 | 6-8 | 7-2 | 7-8 | 8-2 | 8-8 | 9-2 |
| 475.00 | 5-2 | 5-9 | 6-3 | 6-10 | 7-5 | 8-0 | 8-6 | 9-1 | 9-8 | 10-2 |
| 500.00 | 5-9 | 6-4 | 6-11 | 7-7 | 8-2 | 8-10 | 9-5 | 10-1 | 10-8 | 11-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 |
| 275.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 300.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 325.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 |
| 350.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 |
| 375.00 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 |
| 400.00 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 | 5-6 | 5-9 |
| 425.00 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-6 |
| 450.00 | 4-3 | 4-7 | 4-11 | 5-2 | 5-6 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 |
| 475.00 | 4-9 | 5-1 | 5-5 | 5-10 | 6-2 | 6-7 | 6-11 | 7-4 | 7-8 | 8-1 |
| 500.00 | 5-3 | 5-8 | 6-0 | 6-5 | 6-10 | 7-3 | 7-8 | 8-1 | 8-6 | 9-0 |
| 525.00 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 | 8-0 | 8-6 | 8-11 | 9-5 | 9-11 |
| 550.00 | 6-5 | 6-10 | 7-4 | 7-9 | 8-3 | 8-9 | 9-4 | 9-10 | 10-4 | 10-10 |
| 575.00 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-7 | 10-2 | 10-9 | 11-3 | 11-10 |
| 600.00 | 7-7 | 8-2 | 8-8 | 9-3 | 9-10 | 10-5 | 11-1 | 11-8 | 12-4 | 12-11 |
| 625.00 | 8-3 | 8-10 | 9-5 | 10-0 | 10-8 | 11-4 | 12-0 | 12-8 | 13-4 | 14-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 |
| 275.00 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-1 |
| 300.00 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 |
| 325.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 |
| 350.00 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 | 4-10 | 5-0 |
| 375.00 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 |
| 400.00 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 6-0 | 6-3 | 6-7 |
| 425.00 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 |
| 450.00 | 5-0 | 5-4 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 | 8-3 |
| 475.00 | 5-6 | 5-11 | 6-4 | 6-10 | 7-3 | 7-8 | 8-1 | 8-5 | 8-10 | 9-3 |
| 500.00 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-6 | 8-11 | 9-4 | 9-10 | 10-3 |
| 525.00 | 6-9 | 7-3 | 7-9 | 8-4 | 8-10 | 9-4 | 9-10 | 10-4 | 10-10 | 11-3 |
| 550.00 | 7-5 | 8-0 | 8-7 | 9-1 | 9-8 | 10-3 | 10-10 | 11-4 | 11-10 | 12-5 |
| 575.00 | 8-1 | 8-9 | 9-4 | 10-0 | 10-7 | 11-2 | 11-10 | 12-5 | 13-0 | 13-6 |
| 600.00 | 8-10 | 9-6 | 10-2 | 10-10 | 11-6 | 12-2 | 12-10 | 13-6 | 14-1 | 14-9 |
| 625.00 | 9-7 | 10-4 | 11-0 | 11-9 | 12-6 | 13-3 | 13-11 | 14-8 | 15-4 | 16-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 0.28 | 2090 | 0.24 | 2400* |
| 25 | 0 | 0 | 0 | 0.277 | 0.17 | 2061 | 0.15 | 2384 |
| 30 | 0 | 0 | 0 | 0.277 | 0.18 | 1944 | 0.15 | 2304 |
| 40 | 0 | 0 | 0 | 0.277 | 0.2 | 1712 | 0.16 | 2142 |
| 50 | 0 | 0 | 0 | 0.277 | 0.23 | 1482 | 0.18 | 1976 |
| 60 | 0 | 0 | 0 | 0.277 | 0.28 | 1256 | 0.19 | 1807 |
| 70 | 0 | 0 | 0 | 0.277 | 0.33 | 1039 | 0.21 | 1634 |
| 80 | 0 | 0 | 0 | 0.277 | 0.41 | 836 | 0.24 | 1460 |
| 90 | 0 | 0 | 0 | 0.277 | 0.52 | 660 | 0.27 | 1283 |
| 100 | 0 | 0 | 0 | 0.277 | 0.63 | 554 | 0.31 | 1107 |
| 110 | 0 | 0 | 0 | 0.277 | 0.68 | 512 | 0.37 | 934 |
| 120 | 0 | 0 | 0 | 0.277 | 0.73 | 472 | 0.45 | 770 |
| 130 | 0 | 0 | 0 | 0.277 | 0.8 | 435 | 0.55 | 624 |
| 167 | 0 | 0 | 0 | 0.277 | 1.06 | 328 | 0.97 | 357 |
| 212 | 0 | 0 | 0 | 0.277 | 1.4 | 248 | 1.3 | 266 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 1.11 | 2109 | 0.97 | 2400* |
| 25 | 0 | 0 | 0 | 0.277 | 0.69 | 2000 | 0.59 | 2338 |
| 30 | 0 | 0 | 0 | 0.277 | 0.73 | 1889 | 0.61 | 2259 |
| 40 | 0 | 0 | 0 | 0.277 | 0.83 | 1673 | 0.66 | 2101 |
| 50 | 0 | 0 | 0 | 0.277 | 0.95 | 1466 | 0.71 | 1940 |
| 60 | 0 | 0 | 0 | 0.277 | 1.09 | 1271 | 0.78 | 1779 |
| 70 | 0 | 0 | 0 | 0.277 | 1.27 | 1094 | 0.86 | 1617 |
| 80 | 0 | 0 | 0 | 0.277 | 1.47 | 940 | 0.95 | 1456 |
| 90 | 0 | 0 | 0 | 0.277 | 1.71 | 811 | 1.07 | 1300 |
| 100 | 0 | 0 | 0 | 0.277 | 1.96 | 707 | 1.2 | 1150 |
| 110 | 0 | 0 | 0 | 0.277 | 2.2 | 630 | 1.37 | 1011 |
| 120 | 0 | 0 | 0 | 0.277 | 2.31 | 600 | 1.56 | 886 |
| 130 | 0 | 0 | 0 | 0.277 | 2.42 | 572 | 1.78 | 779 |
| 167 | 0 | 0 | 0 | 0.277 | 2.86 | 484 | 2.65 | 522 |
| 212 | 0 | 0 | 0 | 0.277 | 3.4 | 407 | 3.27 | 424 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 2.46 | 2135 | 2.19 | 2400* |
| 25 | 0 | 0 | 0 | 0.277 | 1.63 | 1914 | 1.38 | 2265 |
| 30 | 0 | 0 | 0 | 0.277 | 1.72 | 1815 | 1.42 | 2189 |
| 40 | 0 | 0 | 0 | 0.277 | 1.92 | 1624 | 1.53 | 2038 |
| 50 | 0 | 0 | 0 | 0.277 | 2.15 | 1448 | 1.65 | 1887 |
| 60 | 0 | 0 | 0 | 0.277 | 2.42 | 1290 | 1.79 | 1738 |
| 70 | 0 | 0 | 0 | 0.277 | 2.71 | 1150 | 1.96 | 1593 |
| 80 | 0 | 0 | 0 | 0.277 | 3.03 | 1030 | 2.15 | 1452 |
| 90 | 0 | 0 | 0 | 0.277 | 3.36 | 929 | 2.36 | 1319 |
| 100 | 0 | 0 | 0 | 0.277 | 3.69 | 845 | 2.61 | 1196 |
| 110 | 0 | 0 | 0 | 0.277 | 4.02 | 775 | 2.87 | 1085 |
| 120 | 0 | 0 | 0 | 0.277 | 4.35 | 716 | 3.16 | 986 |
| 130 | 0 | 0 | 0 | 0.277 | 4.56 | 684 | 3.46 | 901 |
| 167 | 0 | 0 | 0 | 0.277 | 5.14 | 607 | 4.61 | 677 |
| 212 | 0 | 0 | 0 | 0.277 | 5.85 | 533 | 5.69 | 549 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 4.31 | 2165 | 3.89 | 2400* |
| 25 | 0 | 0 | 0 | 0.277 | 3.04 | 1822 | 2.55 | 2172 |
| 30 | 0 | 0 | 0 | 0.277 | 3.19 | 1738 | 2.64 | 2101 |
| 40 | 0 | 0 | 0 | 0.277 | 3.51 | 1579 | 2.82 | 1962 |
| 50 | 0 | 0 | 0 | 0.277 | 3.86 | 1435 | 3.04 | 1825 |
| 60 | 0 | 0 | 0 | 0.277 | 4.24 | 1309 | 3.27 | 1693 |
| 70 | 0 | 0 | 0 | 0.277 | 4.63 | 1198 | 3.54 | 1566 |
| 80 | 0 | 0 | 0 | 0.277 | 5.03 | 1102 | 3.83 | 1448 |
| 90 | 0 | 0 | 0 | 0.277 | 5.44 | 1020 | 4.14 | 1338 |
| 100 | 0 | 0 | 0 | 0.277 | 5.84 | 949 | 4.48 | 1237 |
| 110 | 0 | 0 | 0 | 0.277 | 6.24 | 889 | 4.83 | 1147 |
| 120 | 0 | 0 | 0 | 0.277 | 6.63 | 836 | 5.2 | 1067 |
| 130 | 0 | 0 | 0 | 0.277 | 7.02 | 790 | 5.57 | 996 |
| 167 | 0 | 0 | 0 | 0.277 | 7.84 | 708 | 6.94 | 799 |
| 212 | 0 | 0 | 0 | 0.277 | 8.7 | 638 | 8.5 | 653 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.466 | 6.65 | 2194 | 6.08 | 2400* |
| 25 | 0 | 0 | 0 | 0.277 | 4.98 | 1739 | 4.18 | 2069 |
| 30 | 0 | 0 | 0 | 0.277 | 5.19 | 1670 | 4.32 | 2005 |
| 40 | 0 | 0 | 0 | 0.277 | 5.62 | 1541 | 4.6 | 1881 |
| 50 | 0 | 0 | 0 | 0.277 | 6.07 | 1427 | 4.92 | 1762 |
| 60 | 0 | 0 | 0 | 0.277 | 6.53 | 1326 | 5.25 | 1648 |
| 70 | 0 | 0 | 0 | 0.277 | 7 | 1237 | 5.62 | 1542 |
| 80 | 0 | 0 | 0 | 0.277 | 7.47 | 1159 | 6 | 1444 |
| 90 | 0 | 0 | 0 | 0.277 | 7.94 | 1091 | 6.4 | 1353 |
| 100 | 0 | 0 | 0 | 0.277 | 8.41 | 1031 | 6.81 | 1271 |
| 110 | 0 | 0 | 0 | 0.277 | 8.86 | 978 | 7.24 | 1197 |
| 120 | 0 | 0 | 0 | 0.277 | 9.31 | 931 | 7.67 | 1130 |
| 130 | 0 | 0 | 0 | 0.277 | 9.75 | 889 | 8.1 | 1070 |
| 167 | 0 | 0 | 0 | 0.277 | 10.94 | 793 | 9.67 | 897 |
| 212 | 0 | 0 | 0 | 0.277 | 11.93 | 727 | 11.46 | 757 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-2 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-8 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-6 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-9 | 0-10 | 1-0 | 1-3 | 1-7 | 1-11 | 2-1 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-8 | 2-1 | 2-6 | 2-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.29

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 |
| 250.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 | 2-0 | 2-2 |
| 225.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-5 | 1-7 | 1-10 | 2-2 | 2-6 | 2-9 |
| 250.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 2-0 | 2-4 | 2-8 | 3-1 | 3-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 |
| 225.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 |
| 300.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 |
| 325.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-1 | 3-4 |
| 350.00 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 |
| 375.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-1 | 4-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-9 |
| 225.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 |
| 250.00 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 |
| 275.00 | 1-4 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-7 | 2-10 | 3-1 | 3-5 |
| 300.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-9 | 3-0 | 3-4 | 3-8 | 4-0 |
| 325.00 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-7 | 3-11 | 4-4 | 4-9 |
| 350.00 | 2-1 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 | 4-1 | 4-7 | 5-0 | 5-6 |
| 375.00 | 2-5 | 2-8 | 3-0 | 3-4 | 3-9 | 4-3 | 4-9 | 5-3 | 5-9 | 6-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 |
| 250.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 |
| 275.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 300.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 |
| 325.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 |
| 350.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 |
| 375.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 |
| 400.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 |
| 425.00 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 | 5-1 | 5-5 |
| 450.00 | 3-2 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 | 5-8 | 6-1 |
| 475.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 | 5-0 | 5-5 | 5-10 | 6-4 | 6-10 |
| 500.00 | 3-10 | 4-1 | 4-5 | 4-9 | 5-1 | 5-6 | 6-0 | 6-6 | 7-0 | 7-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 |
| 275.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 |
| 300.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 |
| 325.00 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 |
| 350.00 | 2-3 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 3-10 | 4-2 | 4-6 | 4-9 |
| 375.00 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-2 | 5-6 |
| 400.00 | 2-11 | 3-2 | 3-6 | 3-10 | 4-3 | 4-8 | 5-0 | 5-5 | 5-10 | 6-3 |
| 425.00 | 3-3 | 3-7 | 4-0 | 4-4 | 4-9 | 5-3 | 5-8 | 6-2 | 6-7 | 7-1 |
| 450.00 | 3-8 | 4-0 | 4-5 | 4-11 | 5-4 | 5-10 | 6-4 | 6-11 | 7-5 | 7-11 |
| 475.00 | 4-1 | 4-6 | 4-11 | 5-5 | 6-0 | 6-6 | 7-1 | 7-8 | 8-3 | 8-10 |
| 500.00 | 4-6 | 5-0 | 5-6 | 6-0 | 6-7 | 7-3 | 7-10 | 8-6 | 9-2 | 9-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 |
| 275.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 |
| 300.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 |
| 325.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 |
| 350.00 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 |
| 375.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 |
| 400.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-8 |
| 425.00 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-11 | 5-3 |
| 450.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 | 4-10 | 5-2 | 5-6 | 5-10 |
| 475.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-2 | 6-6 |
| 500.00 | 4-1 | 4-4 | 4-7 | 4-11 | 5-3 | 5-7 | 6-0 | 6-5 | 6-10 | 7-3 |
| 525.00 | 4-6 | 4-9 | 5-1 | 5-5 | 5-10 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 |
| 550.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-4 | 6-10 | 7-3 | 7-9 | 8-3 | 8-9 |
| 575.00 | 5-4 | 5-9 | 6-1 | 6-6 | 6-11 | 7-5 | 7-11 | 8-6 | 9-0 | 9-7 |
| 600.00 | 5-10 | 6-3 | 6-8 | 7-1 | 7-7 | 8-1 | 8-8 | 9-3 | 9-10 | 10-5 |
| 625.00 | 6-4 | 6-9 | 7-2 | 7-8 | 8-3 | 8-9 | 9-5 | 10-0 | 10-8 | 11-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 275.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 |
| 300.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 325.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 |
| 350.00 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-1 | 4-4 |
| 375.00 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 |
| 400.00 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-5 | 5-8 |
| 425.00 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 |
| 450.00 | 3-10 | 4-2 | 4-7 | 4-11 | 5-3 | 5-8 | 6-1 | 6-5 | 6-10 | 7-2 |
| 475.00 | 4-4 | 4-8 | 5-1 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 |
| 500.00 | 4-9 | 5-2 | 5-7 | 6-1 | 6-6 | 7-0 | 7-6 | 7-11 | 8-5 | 8-10 |
| 525.00 | 5-3 | 5-9 | 6-2 | 6-8 | 7-2 | 7-9 | 8-3 | 8-9 | 9-3 | 9-9 |
| 550.00 | 5-9 | 6-3 | 6-10 | 7-4 | 7-11 | 8-6 | 9-1 | 9-7 | 10-2 | 10-9 |
| 575.00 | 6-4 | 6-10 | 7-5 | 8-0 | 8-8 | 9-3 | 9-11 | 10-6 | 11-1 | 11-9 |
| 600.00 | 6-11 | 7-6 | 8-1 | 8-9 | 9-5 | 10-1 | 10-9 | 11-5 | 12-1 | 12-9 |
| 625.00 | 7-6 | 8-1 | 8-9 | 9-6 | 10-3 | 10-11 | 11-8 | 12-5 | 13-2 | 13-10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 0.84 | 860 | 0.72 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 0.29 | 1209 | 0.26 | 1338 |
| 30 | 0 | 0 | 0 | 0.277 | 0.35 | 994 | 0.3 | 1166 |
| 40 | 0 | 0 | 0 | 0.277 | 0.44 | 796 | 0.35 | 996 |
| 50 | 0 | 0 | 0 | 0.277 | 0.55 | 626 | 0.42 | 832 |
| 60 | 0 | 0 | 0 | 0.277 | 0.7 | 495 | 0.51 | 681 |
| 70 | 0 | 0 | 0 | 0.277 | 0.86 | 403 | 0.63 | 551 |
| 80 | 0 | 0 | 0 | 0.277 | 1.02 | 340 | 0.77 | 450 |
| 90 | 0 | 0 | 0 | 0.277 | 1.15 | 302 | 0.92 | 377 |
| 100 | 0 | 0 | 0 | 0.277 | 1.22 | 283 | 1.07 | 324 |
| 110 | 0 | 0 | 0 | 0.277 | 1.3 | 267 | 1.21 | 286 |
| 120 | 0 | 0 | 0 | 0.277 | 1.37 | 252 | 1.34 | 259 |
| 130 | 0 | 0 | 0 | 0.277 | 1.45 | 239 | 1.41 | 245 |
| 167 | 0 | 0 | 0 | 0.277 | 1.71 | 203 | 1.67 | 207 |
| 212 | 0 | 0 | 0 | 0.277 | 2 | 173 | 1.97 | 176 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 3.09 | 935 | 2.89 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 1.85 | 749 | 1.59 | 869 |
| 30 | 0 | 0 | 0 | 0.277 | 2.1 | 659 | 1.81 | 766 |
| 40 | 0 | 0 | 0 | 0.277 | 2.36 | 587 | 2.04 | 681 |
| 50 | 0 | 0 | 0 | 0.277 | 2.61 | 531 | 2.27 | 610 |
| 60 | 0 | 0 | 0 | 0.277 | 2.85 | 486 | 2.5 | 553 |
| 70 | 0 | 0 | 0 | 0.277 | 3.08 | 450 | 2.74 | 507 |
| 80 | 0 | 0 | 0 | 0.277 | 3.3 | 420 | 2.96 | 468 |
| 90 | 0 | 0 | 0 | 0.277 | 3.52 | 394 | 3.18 | 436 |
| 100 | 0 | 0 | 0 | 0.277 | 3.72 | 373 | 3.39 | 409 |
| 110 | 0 | 0 | 0 | 0.277 | 3.85 | 360 | 3.59 | 386 |
| 120 | 0 | 0 | 0 | 0.277 | 3.96 | 350 | 3.79 | 366 |
| 130 | 0 | 0 | 0 | 0.277 | 4.07 | 341 | 3.98 | 349 |
| 167 | 0 | 0 | 0 | 0.277 | 4.47 | 310 | 4.43 | 313 |
| 212 | 0 | 0 | 0 | 0.277 | 4.93 | 281 | 4.89 | 284 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 6.75 | 965 | 6.51 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 5.36 | 583 | 4.98 | 627 |
| 30 | 0 | 0 | 0 | 0.277 | 5.65 | 553 | 5.26 | 593 |
| 40 | 0 | 0 | 0 | 0.277 | 5.93 | 527 | 5.54 | 563 |
| 50 | 0 | 0 | 0 | 0.277 | 6.2 | 504 | 5.82 | 537 |
| 60 | 0 | 0 | 0 | 0.277 | 6.46 | 483 | 6.08 | 513 |
| 70 | 0 | 0 | 0 | 0.277 | 6.72 | 465 | 6.34 | 493 |
| 80 | 0 | 0 | 0 | 0.277 | 6.97 | 448 | 6.59 | 474 |
| 90 | 0 | 0 | 0 | 0.277 | 7.21 | 433 | 6.83 | 457 |
| 100 | 0 | 0 | 0 | 0.277 | 7.44 | 420 | 7.07 | 442 |
| 110 | 0 | 0 | 0 | 0.277 | 7.67 | 407 | 7.3 | 428 |
| 120 | 0 | 0 | 0 | 0.277 | 7.81 | 400 | 7.53 | 415 |
| 130 | 0 | 0 | 0 | 0.277 | 7.95 | 393 | 7.75 | 403 |
| 167 | 0 | 0 | 0 | 0.277 | 8.44 | 370 | 8.39 | 373 |
| 212 | 0 | 0 | 0 | 0.277 | 9.01 | 347 | 8.96 | 349 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 11.84 | 979 | 11.59 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 10.42 | 533 | 10.03 | 554 |
| 30 | 0 | 0 | 0 | 0.277 | 10.71 | 519 | 10.32 | 538 |
| 40 | 0 | 0 | 0 | 0.277 | 10.99 | 506 | 10.6 | 524 |
| 50 | 0 | 0 | 0 | 0.277 | 11.27 | 493 | 10.87 | 511 |
| 60 | 0 | 0 | 0 | 0.277 | 11.54 | 482 | 11.14 | 499 |
| 70 | 0 | 0 | 0 | 0.277 | 11.81 | 471 | 11.41 | 487 |
| 80 | 0 | 0 | 0 | 0.277 | 12.07 | 461 | 11.67 | 476 |
| 90 | 0 | 0 | 0 | 0.277 | 12.32 | 451 | 11.93 | 466 |
| 100 | 0 | 0 | 0 | 0.277 | 12.57 | 442 | 12.18 | 457 |
| 110 | 0 | 0 | 0 | 0.277 | 12.82 | 434 | 12.43 | 447 |
| 120 | 0 | 0 | 0 | 0.277 | 13.03 | 427 | 12.67 | 439 |
| 130 | 0 | 0 | 0 | 0.277 | 13.18 | 422 | 12.91 | 431 |
| 167 | 0 | 0 | 0 | 0.277 | 13.73 | 406 | 13.67 | 407 |
| 212 | 0 | 0 | 0 | 0.277 | 14.37 | 387 | 14.32 | 389 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 18.4 | 986 | 18.14 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 16.97 | 513 | 16.58 | 524 |
| 30 | 0 | 0 | 0 | 0.277 | 17.25 | 504 | 16.86 | 516 |
| 40 | 0 | 0 | 0 | 0.277 | 17.54 | 496 | 17.14 | 507 |
| 50 | 0 | 0 | 0 | 0.277 | 17.82 | 488 | 17.42 | 499 |
| 60 | 0 | 0 | 0 | 0.277 | 18.09 | 481 | 17.69 | 492 |
| 70 | 0 | 0 | 0 | 0.277 | 18.36 | 474 | 17.96 | 484 |
| 80 | 0 | 0 | 0 | 0.277 | 18.63 | 467 | 18.23 | 477 |
| 90 | 0 | 0 | 0 | 0.277 | 18.89 | 461 | 18.49 | 471 |
| 100 | 0 | 0 | 0 | 0.277 | 19.15 | 455 | 18.75 | 464 |
| 110 | 0 | 0 | 0 | 0.277 | 19.41 | 449 | 19.01 | 458 |
| 120 | 0 | 0 | 0 | 0.277 | 19.66 | 443 | 19.26 | 452 |
| 130 | 0 | 0 | 0 | 0.277 | 19.82 | 440 | 19.51 | 446 |
| 167 | 0 | 0 | 0 | 0.277 | 20.41 | 427 | 20.35 | 428 |
| 212 | 0 | 0 | 0 | 0.277 | 21.1 | 413 | 21.05 | 414 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-7 | 1-11 | 2-4 | 2-10 | 3-3 | 3-8 |
| 200.00 | 1-0 | 1-2 | 1-5 | 1-8 | 2-0 | 2-6 | 3-1 | 3-8 | 4-3 | 4-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 |
| 125.00 | 0-5 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-10 | 1-11 | 2-0 |
| 150.00 | 0-8 | 0-9 | 1-0 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-9 | 2-11 |
| 175.00 | 0-11 | 1-1 | 1-4 | 1-8 | 2-2 | 2-8 | 3-1 | 3-6 | 3-9 | 4-0 |
| 200.00 | 1-2 | 1-5 | 1-9 | 2-3 | 2-10 | 3-5 | 4-1 | 4-7 | 4-11 | 5-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 175.00 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 200.00 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 |
| 225.00 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 |
| 250.00 | 2-6 | 2-10 | 3-2 | 3-7 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 175.00 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 |
| 200.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 3-10 |
| 225.00 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-9 | 4-10 |
| 250.00 | 2-11 | 3-3 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 | 5-10 | 6-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.38

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 200.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 |
| 225.00 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 |
| 250.00 | 3-5 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 |
| 275.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 |
| 300.00 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 325.00 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 | 8-0 | 8-4 | 8-7 |
| 350.00 | 6-9 | 7-2 | 7-7 | 7-11 | 8-3 | 8-8 | 9-0 | 9-4 | 9-8 | 9-11 |
| 375.00 | 7-9 | 8-3 | 8-8 | 9-1 | 9-6 | 9-11 | 10-4 | 10-8 | 11-1 | 11-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 175.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 200.00 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 |
| 225.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 |
| 250.00 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 |
| 275.00 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 |
| 300.00 | 5-4 | 5-8 | 5-11 | 6-2 | 6-6 | 6-9 | 7-0 | 7-3 | 7-5 | 7-8 |
| 325.00 | 6-3 | 6-8 | 6-11 | 7-3 | 7-7 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 |
| 350.00 | 7-3 | 7-8 | 8-1 | 8-5 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 | 10-5 |
| 375.00 | 8-4 | 8-10 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 | 11-3 | 11-8 | 12-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 225.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 250.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 |
| 275.00 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 |
| 300.00 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 |
| 325.00 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |
| 350.00 | 7-8 | 7-11 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 |
| 375.00 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-0 | 10-3 | 10-6 | 10-8 | 10-11 |
| 400.00 | 10-0 | 10-4 | 10-7 | 10-10 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 |
| 425.00 | 11-4 | 11-8 | 12-0 | 12-3 | 12-7 | 12-11 | 13-2 | 13-6 | 13-9 | 14-0 |
| 450.00 | 12-8 | 13-1 | 13-5 | 13-9 | 14-1 | 14-5 | 14-9 | 15-1 | 15-5 | 15-9 |
| 475.00 | 14-2 | 14-7 | 14-11 | 15-4 | 15-9 | 16-1 | 16-6 | 16-10 | 17-2 | 17-6 |
| 500.00 | 15-8 | 16-2 | 16-7 | 17-0 | 17-5 | 17-10 | 18-3 | 18-8 | 19-1 | 19-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 |
| 225.00 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 250.00 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 |
| 275.00 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 |
| 300.00 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 |
| 325.00 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 |
| 350.00 | 8-0 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-10 |
| 375.00 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-4 | 10-7 | 10-10 | 11-1 | 11-3 |
| 400.00 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 |
| 425.00 | 11-9 | 12-1 | 12-5 | 12-9 | 13-0 | 13-4 | 13-7 | 13-11 | 14-2 | 14-6 |
| 450.00 | 13-2 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-11 | 16-3 |
| 475.00 | 14-8 | 15-1 | 15-6 | 15-11 | 16-3 | 16-8 | 17-0 | 17-5 | 17-9 | 18-1 |
| 500.00 | 16-3 | 16-9 | 17-2 | 17-7 | 18-0 | 18-5 | 18-10 | 19-3 | 19-8 | 20-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 |
| 275.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 |
| 300.00 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 325.00 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 |
| 350.00 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-2 | 9-4 |
| 375.00 | 9-4 | 9-6 | 9-8 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 |
| 400.00 | 10-7 | 10-9 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 |
| 425.00 | 12-0 | 12-2 | 12-5 | 12-7 | 12-9 | 13-0 | 13-2 | 13-4 | 13-6 | 13-9 |
| 450.00 | 13-5 | 13-8 | 13-11 | 14-1 | 14-4 | 14-7 | 14-9 | 15-0 | 15-2 | 15-5 |
| 475.00 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 |
| 500.00 | 16-7 | 16-10 | 17-2 | 17-5 | 17-8 | 18-0 | 18-3 | 18-6 | 18-9 | 19-0 |
| 525.00 | 18-3 | 18-7 | 18-11 | 19-2 | 19-6 | 19-10 | 20-1 | 20-5 | 20-8 | 20-11 |
| 550.00 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-1 | 22-5 | 22-8 | 23-0 |
| 575.00 | 21-11 | 22-4 | 22-8 | 23-1 | 23-5 | 23-9 | 24-1 | 24-6 | 24-10 | 25-2 |
| 600.00 | 23-11 | 24-4 | 24-8 | 25-1 | 25-6 | 25-11 | 26-3 | 26-8 | 27-0 | 27-5 |
| 625.00 | 25-11 | 26-4 | 26-10 | 27-3 | 27-8 | 28-1 | 28-6 | 28-11 | 29-4 | 29-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 |
| 300.00 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 |
| 325.00 | 7-2 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 |
| 350.00 | 8-4 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 | 9-6 |
| 375.00 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 |
| 400.00 | 10-10 | 11-0 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 |
| 425.00 | 12-3 | 12-6 | 12-8 | 12-10 | 13-1 | 13-3 | 13-5 | 13-8 | 13-10 | 14-0 |
| 450.00 | 13-9 | 14-0 | 14-2 | 14-5 | 14-8 | 14-10 | 15-1 | 15-4 | 15-6 | 15-9 |
| 475.00 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-3 | 17-6 |
| 500.00 | 17-0 | 17-3 | 17-6 | 17-10 | 18-1 | 18-4 | 18-8 | 18-11 | 19-2 | 19-5 |
| 525.00 | 18-9 | 19-0 | 19-4 | 19-8 | 19-11 | 20-3 | 20-7 | 20-10 | 21-1 | 21-5 |
| 550.00 | 20-6 | 20-11 | 21-3 | 21-7 | 21-11 | 22-3 | 22-7 | 22-10 | 23-2 | 23-6 |
| 575.00 | 22-5 | 22-10 | 23-2 | 23-7 | 23-11 | 24-4 | 24-8 | 25-0 | 25-4 | 25-8 |
| 600.00 | 24-5 | 24-10 | 25-3 | 25-8 | 26-1 | 26-6 | 26-10 | 27-3 | 27-7 | 28-0 |
| 625.00 | 26-6 | 27-0 | 27-5 | 27-10 | 28-4 | 28-9 | 29-2 | 29-7 | 30-0 | 30-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 0.6 | 1212 | 0.48 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 0.2 | 1740 | 0.18 | 1932 |
| 30 | 0 | 0 | 0 | 0.277 | 0.23 | 1510 | 0.2 | 1764 |
| 40 | 0 | 0 | 0 | 0.277 | 0.27 | 1284 | 0.22 | 1593 |
| 50 | 0 | 0 | 0 | 0.277 | 0.33 | 1065 | 0.24 | 1421 |
| 60 | 0 | 0 | 0 | 0.277 | 0.4 | 860 | 0.28 | 1246 |
| 70 | 0 | 0 | 0 | 0.277 | 0.51 | 680 | 0.32 | 1073 |
| 80 | 0 | 0 | 0 | 0.277 | 0.65 | 535 | 0.38 | 903 |
| 90 | 0 | 0 | 0 | 0.277 | 0.8 | 431 | 0.47 | 743 |
| 100 | 0 | 0 | 0 | 0.277 | 0.88 | 395 | 0.58 | 602 |
| 110 | 0 | 0 | 0 | 0.277 | 0.95 | 366 | 0.71 | 488 |
| 120 | 0 | 0 | 0 | 0.277 | 1.02 | 339 | 0.86 | 404 |
| 130 | 0 | 0 | 0 | 0.277 | 1.1 | 316 | 1.01 | 343 |
| 167 | 0 | 0 | 0 | 0.277 | 1.38 | 252 | 1.32 | 263 |
| 212 | 0 | 0 | 0 | 0.277 | 1.7 | 204 | 1.64 | 212 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 2.18 | 1325 | 1.93 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 0.94 | 1471 | 0.82 | 1684 |
| 30 | 0 | 0 | 0 | 0.277 | 1.09 | 1276 | 0.91 | 1526 |
| 40 | 0 | 0 | 0 | 0.277 | 1.26 | 1098 | 1.01 | 1370 |
| 50 | 0 | 0 | 0 | 0.277 | 1.47 | 943 | 1.14 | 1219 |
| 60 | 0 | 0 | 0 | 0.277 | 1.7 | 814 | 1.29 | 1076 |
| 70 | 0 | 0 | 0 | 0.277 | 1.95 | 710 | 1.46 | 946 |
| 80 | 0 | 0 | 0 | 0.277 | 2.21 | 628 | 1.67 | 831 |
| 90 | 0 | 0 | 0 | 0.277 | 2.46 | 563 | 1.89 | 733 |
| 100 | 0 | 0 | 0 | 0.277 | 2.71 | 512 | 2.12 | 653 |
| 110 | 0 | 0 | 0 | 0.277 | 2.91 | 477 | 2.36 | 587 |
| 120 | 0 | 0 | 0 | 0.277 | 3.03 | 458 | 2.6 | 534 |
| 130 | 0 | 0 | 0 | 0.277 | 3.15 | 440 | 2.83 | 490 |
| 167 | 0 | 0 | 0 | 0.277 | 3.59 | 386 | 3.51 | 395 |
| 212 | 0 | 0 | 0 | 0.277 | 4.1 | 338 | 4.02 | 345 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 4.67 | 1392 | 4.33 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 2.69 | 1157 | 2.31 | 1350 |
| 30 | 0 | 0 | 0 | 0.277 | 3.01 | 1036 | 2.54 | 1227 |
| 40 | 0 | 0 | 0 | 0.277 | 3.34 | 934 | 2.8 | 1114 |
| 50 | 0 | 0 | 0 | 0.277 | 3.67 | 849 | 3.08 | 1014 |
| 60 | 0 | 0 | 0 | 0.277 | 4.01 | 778 | 3.37 | 925 |
| 70 | 0 | 0 | 0 | 0.277 | 4.34 | 719 | 3.67 | 849 |
| 80 | 0 | 0 | 0 | 0.277 | 4.66 | 670 | 3.98 | 784 |
| 90 | 0 | 0 | 0 | 0.277 | 4.97 | 628 | 4.29 | 727 |
| 100 | 0 | 0 | 0 | 0.277 | 5.27 | 592 | 4.59 | 679 |
| 110 | 0 | 0 | 0 | 0.277 | 5.56 | 561 | 4.89 | 638 |
| 120 | 0 | 0 | 0 | 0.277 | 5.85 | 534 | 5.18 | 602 |
| 130 | 0 | 0 | 0 | 0.277 | 6.01 | 519 | 5.47 | 571 |
| 167 | 0 | 0 | 0 | 0.277 | 6.57 | 475 | 6.45 | 484 |
| 212 | 0 | 0 | 0 | 0.277 | 7.23 | 432 | 7.15 | 437 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 8.09 | 1430 | 7.71 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 5.76 | 962 | 5.13 | 1081 |
| 30 | 0 | 0 | 0 | 0.277 | 6.17 | 899 | 5.49 | 1009 |
| 40 | 0 | 0 | 0 | 0.277 | 6.56 | 845 | 5.86 | 946 |
| 50 | 0 | 0 | 0 | 0.277 | 6.95 | 799 | 6.23 | 891 |
| 60 | 0 | 0 | 0 | 0.277 | 7.32 | 758 | 6.59 | 841 |
| 70 | 0 | 0 | 0 | 0.277 | 7.69 | 721 | 6.95 | 798 |
| 80 | 0 | 0 | 0 | 0.277 | 8.05 | 690 | 7.31 | 759 |
| 90 | 0 | 0 | 0 | 0.277 | 8.4 | 661 | 7.66 | 725 |
| 100 | 0 | 0 | 0 | 0.277 | 8.73 | 636 | 8 | 694 |
| 110 | 0 | 0 | 0 | 0.277 | 9.06 | 612 | 8.33 | 666 |
| 120 | 0 | 0 | 0 | 0.277 | 9.39 | 592 | 8.66 | 641 |
| 130 | 0 | 0 | 0 | 0.277 | 9.7 | 573 | 8.98 | 618 |
| 167 | 0 | 0 | 0 | 0.277 | 10.37 | 536 | 10.11 | 550 |
| 212 | 0 | 0 | 0 | 0.277 | 11.14 | 499 | 11.05 | 503 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 12.47 | 1451 | 12.06 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 10 | 867 | 9.27 | 935 |
| 30 | 0 | 0 | 0 | 0.277 | 10.42 | 832 | 9.68 | 896 |
| 40 | 0 | 0 | 0 | 0.277 | 10.84 | 800 | 10.08 | 860 |
| 50 | 0 | 0 | 0 | 0.277 | 11.24 | 772 | 10.48 | 827 |
| 60 | 0 | 0 | 0 | 0.277 | 11.64 | 745 | 10.87 | 798 |
| 70 | 0 | 0 | 0 | 0.277 | 12.02 | 722 | 11.25 | 771 |
| 80 | 0 | 0 | 0 | 0.277 | 12.4 | 700 | 11.63 | 746 |
| 90 | 0 | 0 | 0 | 0.277 | 12.77 | 680 | 12 | 723 |
| 100 | 0 | 0 | 0 | 0.277 | 13.13 | 661 | 12.37 | 702 |
| 110 | 0 | 0 | 0 | 0.277 | 13.49 | 644 | 12.72 | 682 |
| 120 | 0 | 0 | 0 | 0.277 | 13.83 | 628 | 13.07 | 664 |
| 130 | 0 | 0 | 0 | 0.277 | 14.17 | 613 | 13.42 | 647 |
| 167 | 0 | 0 | 0 | 0.277 | 15.02 | 578 | 14.64 | 593 |
| 212 | 0 | 0 | 0 | 0.277 | 15.88 | 547 | 15.8 | 550 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-1 | 1-4 | 1-7 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 |
| 200.00 | 0-9 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-10 | 2-4 | 2-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-4 | 1-6 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-10 | 2-0 | 2-2 |
| 175.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-6 | 2-8 | 2-11 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-7 | 3-3 | 3-6 | 3-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.45

Stringing Sag Table Using Initial Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 175.00 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 1-10 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 |
| 225.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-8 | 1-10 | 2-1 | 2-5 | 2-8 | 3-0 |
| 250.00 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-4 | 3-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 |
| 200.00 | 0-11 | 1-1 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-6 | 2-8 | 2-11 |
| 225.00 | 1-2 | 1-4 | 1-7 | 1-10 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 |
| 250.00 | 1-6 | 1-8 | 2-0 | 2-4 | 2-8 | 3-1 | 3-5 | 3-10 | 4-3 | 4-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 200.00 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |
| 225.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 250.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 |
| 275.00 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 |
| 300.00 | 2-4 | 2-6 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-3 | 4-7 | 4-11 |
| 325.00 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-4 | 4-8 | 5-0 | 5-5 | 5-9 |
| 350.00 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 | 5-0 | 5-5 | 5-10 | 6-3 | 6-8 |
| 375.00 | 3-7 | 4-0 | 4-4 | 4-10 | 5-3 | 5-9 | 6-3 | 6-8 | 7-2 | 7-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 |
| 200.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 |
| 225.00 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 |
| 250.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 |
| 275.00 | 2-3 | 2-6 | 2-10 | 3-1 | 3-4 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 |
| 300.00 | 2-8 | 3-0 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 |
| 325.00 | 3-2 | 3-6 | 3-11 | 4-4 | 4-8 | 5-1 | 5-6 | 5-10 | 6-2 | 6-6 |
| 350.00 | 3-8 | 4-1 | 4-7 | 5-0 | 5-5 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 |
| 375.00 | 4-3 | 4-8 | 5-3 | 5-9 | 6-3 | 6-9 | 7-3 | 7-9 | 8-3 | 8-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 225.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 |
| 250.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 |
| 275.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 |
| 300.00 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 |
| 325.00 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 |
| 350.00 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 | 6-5 |
| 375.00 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 |
| 400.00 | 5-2 | 5-6 | 5-10 | 6-3 | 6-7 | 6-11 | 7-4 | 7-8 | 8-0 | 8-4 |
| 425.00 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 | 9-0 | 9-5 |
| 450.00 | 6-6 | 6-11 | 7-5 | 7-11 | 8-4 | 8-10 | 9-3 | 9-8 | 10-2 | 10-7 |
| 475.00 | 7-3 | 7-9 | 8-3 | 8-9 | 9-4 | 9-10 | 10-4 | 10-10 | 11-3 | 11-9 |
| 500.00 | 8-0 | 8-7 | 9-2 | 9-9 | 10-4 | 10-10 | 11-5 | 12-0 | 12-6 | 13-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 225.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 |
| 250.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 |
| 275.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-3 |
| 300.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 |
| 325.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 |
| 350.00 | 4-5 | 4-9 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 |
| 375.00 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-8 | 8-0 |
| 400.00 | 5-9 | 6-2 | 6-7 | 6-11 | 7-4 | 7-8 | 8-1 | 8-5 | 8-9 | 9-1 |
| 425.00 | 6-6 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 | 9-1 | 9-6 | 9-10 | 10-3 |
| 450.00 | 7-4 | 7-10 | 8-4 | 8-10 | 9-3 | 9-9 | 10-2 | 10-8 | 11-1 | 11-6 |
| 475.00 | 8-2 | 8-8 | 9-3 | 9-10 | 10-4 | 10-10 | 11-4 | 11-10 | 12-4 | 12-9 |
| 500.00 | 9-0 | 9-8 | 10-3 | 10-10 | 11-5 | 12-0 | 12-7 | 13-1 | 13-8 | 14-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 275.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 |
| 300.00 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 |
| 325.00 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 |
| 350.00 | 4-6 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 |
| 375.00 | 5-3 | 5-5 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-2 |
| 400.00 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 |
| 425.00 | 6-8 | 7-0 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 |
| 450.00 | 7-6 | 7-10 | 8-2 | 8-6 | 8-10 | 9-1 | 9-5 | 9-9 | 10-0 | 10-4 |
| 475.00 | 8-4 | 8-9 | 9-1 | 9-5 | 9-10 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 |
| 500.00 | 9-3 | 9-8 | 10-1 | 10-6 | 10-10 | 11-3 | 11-8 | 12-0 | 12-4 | 12-9 |
| 525.00 | 10-3 | 10-8 | 11-1 | 11-7 | 12-0 | 12-5 | 12-10 | 13-3 | 13-8 | 14-0 |
| 550.00 | 11-3 | 11-9 | 12-2 | 12-8 | 13-2 | 13-7 | 14-1 | 14-6 | 15-0 | 15-5 |
| 575.00 | 12-3 | 12-10 | 13-4 | 13-10 | 14-5 | 14-11 | 15-5 | 15-11 | 16-4 | 16-10 |
| 600.00 | 13-4 | 13-11 | 14-6 | 15-1 | 15-8 | 16-3 | 16-9 | 17-3 | 17-10 | 18-4 |
| 625.00 | 14-6 | 15-2 | 15-9 | 16-5 | 17-0 | 17-7 | 18-2 | 18-9 | 19-4 | 19-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 275.00 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 |
| 300.00 | 3-7 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 |
| 325.00 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 |
| 350.00 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 |
| 375.00 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-5 | 7-7 |
| 400.00 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 |
| 425.00 | 7-3 | 7-6 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 |
| 450.00 | 8-1 | 8-5 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 |
| 475.00 | 9-0 | 9-5 | 9-9 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 |
| 500.00 | 10-0 | 10-5 | 10-10 | 11-3 | 11-8 | 12-0 | 12-5 | 12-9 | 13-2 | 13-6 |
| 525.00 | 11-0 | 11-6 | 11-11 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-10 |
| 550.00 | 12-1 | 12-7 | 13-1 | 13-7 | 14-1 | 14-7 | 15-0 | 15-5 | 15-11 | 16-4 |
| 575.00 | 13-3 | 13-9 | 14-4 | 14-10 | 15-5 | 15-11 | 16-5 | 16-11 | 17-4 | 17-10 |
| 600.00 | 14-5 | 15-0 | 15-7 | 16-2 | 16-9 | 17-4 | 17-10 | 18-5 | 18-11 | 19-5 |
| 625.00 | 15-8 | 16-4 | 16-11 | 17-7 | 18-2 | 18-10 | 19-5 | 20-0 | 20-6 | 21-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 0.46 | 1560 | 0.36 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 0.16 | 2164 | 0.14 | 2445 |
| 30 | 0 | 0 | 0 | 0.277 | 0.18 | 1929 | 0.15 | 2285 |
| 40 | 0 | 0 | 0 | 0.277 | 0.2 | 1697 | 0.16 | 2123 |
| 50 | 0 | 0 | 0 | 0.277 | 0.24 | 1467 | 0.18 | 1957 |
| 60 | 0 | 0 | 0 | 0.277 | 0.28 | 1242 | 0.19 | 1787 |
| 70 | 0 | 0 | 0 | 0.277 | 0.34 | 1026 | 0.21 | 1615 |
| 80 | 0 | 0 | 0 | 0.277 | 0.42 | 824 | 0.24 | 1440 |
| 90 | 0 | 0 | 0 | 0.277 | 0.53 | 650 | 0.27 | 1264 |
| 100 | 0 | 0 | 0 | 0.277 | 0.63 | 548 | 0.32 | 1088 |
| 110 | 0 | 0 | 0 | 0.277 | 0.68 | 506 | 0.38 | 916 |
| 120 | 0 | 0 | 0 | 0.277 | 0.74 | 466 | 0.46 | 753 |
| 130 | 0 | 0 | 0 | 0.277 | 0.8 | 430 | 0.57 | 609 |
| 167 | 0 | 0 | 0 | 0.277 | 1.07 | 325 | 0.98 | 353 |
| 212 | 0 | 0 | 0 | 0.277 | 1.41 | 246 | 1.32 | 263 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 1.72 | 1675 | 1.44 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 0.68 | 2022 | 0.6 | 2310 |
| 30 | 0 | 0 | 0 | 0.277 | 0.77 | 1802 | 0.64 | 2153 |
| 40 | 0 | 0 | 0 | 0.277 | 0.87 | 1589 | 0.69 | 1993 |
| 50 | 0 | 0 | 0 | 0.277 | 1 | 1386 | 0.76 | 1832 |
| 60 | 0 | 0 | 0 | 0.277 | 1.16 | 1198 | 0.83 | 1671 |
| 70 | 0 | 0 | 0 | 0.277 | 1.35 | 1029 | 0.92 | 1510 |
| 80 | 0 | 0 | 0 | 0.277 | 1.57 | 885 | 1.02 | 1352 |
| 90 | 0 | 0 | 0 | 0.277 | 1.81 | 767 | 1.15 | 1200 |
| 100 | 0 | 0 | 0 | 0.277 | 2.06 | 673 | 1.31 | 1057 |
| 110 | 0 | 0 | 0 | 0.277 | 2.3 | 604 | 1.49 | 927 |
| 120 | 0 | 0 | 0 | 0.277 | 2.41 | 575 | 1.7 | 814 |
| 130 | 0 | 0 | 0 | 0.277 | 2.52 | 549 | 1.93 | 718 |
| 167 | 0 | 0 | 0 | 0.277 | 2.97 | 467 | 2.8 | 494 |
| 212 | 0 | 0 | 0 | 0.277 | 3.51 | 396 | 3.38 | 410 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 3.66 | 1774 | 3.25 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 1.73 | 1806 | 1.49 | 2098 |
| 30 | 0 | 0 | 0 | 0.277 | 1.93 | 1616 | 1.6 | 1948 |
| 40 | 0 | 0 | 0 | 0.277 | 2.16 | 1441 | 1.73 | 1799 |
| 50 | 0 | 0 | 0 | 0.277 | 2.43 | 1283 | 1.89 | 1653 |
| 60 | 0 | 0 | 0 | 0.277 | 2.72 | 1144 | 2.06 | 1511 |
| 70 | 0 | 0 | 0 | 0.277 | 3.04 | 1025 | 2.27 | 1375 |
| 80 | 0 | 0 | 0 | 0.277 | 3.37 | 925 | 2.5 | 1248 |
| 90 | 0 | 0 | 0 | 0.277 | 3.71 | 841 | 2.75 | 1132 |
| 100 | 0 | 0 | 0 | 0.277 | 4.04 | 772 | 3.03 | 1028 |
| 110 | 0 | 0 | 0 | 0.277 | 4.37 | 714 | 3.33 | 937 |
| 120 | 0 | 0 | 0 | 0.277 | 4.69 | 665 | 3.63 | 858 |
| 130 | 0 | 0 | 0 | 0.277 | 4.89 | 638 | 3.94 | 791 |
| 167 | 0 | 0 | 0 | 0.277 | 5.47 | 570 | 5.07 | 616 |
| 212 | 0 | 0 | 0 | 0.277 | 6.18 | 505 | 6.04 | 517 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 6.28 | 1842 | 5.78 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 3.53 | 1569 | 3.01 | 1840 |
| 30 | 0 | 0 | 0 | 0.277 | 3.88 | 1427 | 3.24 | 1709 |
| 40 | 0 | 0 | 0 | 0.277 | 4.26 | 1301 | 3.5 | 1583 |
| 50 | 0 | 0 | 0 | 0.277 | 4.65 | 1191 | 3.79 | 1464 |
| 60 | 0 | 0 | 0 | 0.277 | 5.06 | 1097 | 4.1 | 1353 |
| 70 | 0 | 0 | 0 | 0.277 | 5.46 | 1015 | 4.43 | 1252 |
| 80 | 0 | 0 | 0 | 0.277 | 5.87 | 945 | 4.77 | 1161 |
| 90 | 0 | 0 | 0 | 0.277 | 6.27 | 885 | 5.14 | 1080 |
| 100 | 0 | 0 | 0 | 0.277 | 6.66 | 833 | 5.5 | 1007 |
| 110 | 0 | 0 | 0 | 0.277 | 7.04 | 788 | 5.88 | 944 |
| 120 | 0 | 0 | 0 | 0.277 | 7.42 | 748 | 6.25 | 888 |
| 130 | 0 | 0 | 0 | 0.277 | 7.78 | 713 | 6.62 | 838 |
| 167 | 0 | 0 | 0 | 0.277 | 8.58 | 647 | 7.93 | 700 |
| 212 | 0 | 0 | 0 | 0.277 | 9.42 | 590 | 9.27 | 599 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 9.58 | 1887 | 9.03 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 6.29 | 1377 | 5.44 | 1591 |
| 30 | 0 | 0 | 0 | 0.277 | 6.76 | 1282 | 5.81 | 1490 |
| 40 | 0 | 0 | 0 | 0.277 | 7.23 | 1198 | 6.2 | 1397 |
| 50 | 0 | 0 | 0 | 0.277 | 7.7 | 1125 | 6.6 | 1312 |
| 60 | 0 | 0 | 0 | 0.277 | 8.17 | 1061 | 7.02 | 1234 |
| 70 | 0 | 0 | 0 | 0.277 | 8.63 | 1004 | 7.44 | 1164 |
| 80 | 0 | 0 | 0 | 0.277 | 9.08 | 954 | 7.87 | 1101 |
| 90 | 0 | 0 | 0 | 0.277 | 9.52 | 910 | 8.3 | 1045 |
| 100 | 0 | 0 | 0 | 0.277 | 9.96 | 871 | 8.72 | 994 |
| 110 | 0 | 0 | 0 | 0.277 | 10.38 | 835 | 9.14 | 948 |
| 120 | 0 | 0 | 0 | 0.277 | 10.8 | 803 | 9.56 | 907 |
| 130 | 0 | 0 | 0 | 0.277 | 11.2 | 774 | 9.97 | 870 |
| 167 | 0 | 0 | 0 | 0.277 | 12.3 | 706 | 11.43 | 759 |
| 212 | 0 | 0 | 0 | 0.277 | 13.25 | 655 | 13.08 | 664 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-8 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 |
| 150.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-6 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-9 | 0-10 | 1-0 | 1-3 | 1-8 | 1-11 | 2-1 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-8 | 2-2 | 2-6 | 2-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 |
| 225.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-5 | 1-7 | 1-9 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 |
| 225.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-8 | 2-0 | 2-3 | 2-7 | 2-11 |
| 250.00 | 1-1 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-5 | 2-10 | 3-3 | 3-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.54

Stringing Sag Table Using Initial Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 200.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 |
| 275.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 |
| 300.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 |
| 325.00 | 1-9 | 1-11 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 |
| 350.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-2 | 4-6 |
| 375.00 | 2-4 | 2-6 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 | 4-4 | 4-9 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 |
| 200.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 1-11 |
| 225.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 250.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-0 |
| 275.00 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 |
| 300.00 | 1-9 | 1-11 | 2-2 | 2-5 | 2-9 | 3-0 | 3-4 | 3-8 | 4-0 | 4-4 |
| 325.00 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-7 | 3-11 | 4-4 | 4-9 | 5-2 |
| 350.00 | 2-4 | 2-7 | 2-11 | 3-4 | 3-9 | 4-2 | 4-7 | 5-1 | 5-6 | 5-11 |
| 375.00 | 2-8 | 3-0 | 3-5 | 3-10 | 4-3 | 4-9 | 5-3 | 5-9 | 6-4 | 6-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 |
| 275.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 300.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 |
| 325.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 |
| 350.00 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 | 4-6 |
| 375.00 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 |
| 400.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-2 | 5-6 | 5-11 |
| 425.00 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 5-0 | 5-5 | 5-10 | 6-3 | 6-8 |
| 450.00 | 3-10 | 4-1 | 4-5 | 4-10 | 5-2 | 5-7 | 6-1 | 6-6 | 7-0 | 7-5 |
| 475.00 | 4-3 | 4-7 | 4-11 | 5-4 | 5-9 | 6-3 | 6-9 | 7-3 | 7-9 | 8-3 |
| 500.00 | 4-8 | 5-1 | 5-6 | 5-11 | 6-5 | 6-11 | 7-6 | 8-0 | 8-7 | 9-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 |
| 225.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 250.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 |
| 275.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 |
| 300.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 |
| 325.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-5 | 4-8 |
| 350.00 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 |
| 375.00 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 |
| 400.00 | 3-6 | 3-11 | 4-3 | 4-8 | 5-1 | 5-6 | 5-10 | 6-3 | 6-8 | 7-1 |
| 425.00 | 4-0 | 4-5 | 4-10 | 5-3 | 5-8 | 6-2 | 6-7 | 7-1 | 7-6 | 7-11 |
| 450.00 | 4-6 | 4-11 | 5-5 | 5-11 | 6-5 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 |
| 475.00 | 5-0 | 5-6 | 6-0 | 6-7 | 7-2 | 7-8 | 8-3 | 8-10 | 9-5 | 9-11 |
| 500.00 | 5-6 | 6-1 | 6-8 | 7-3 | 7-11 | 8-6 | 9-2 | 9-10 | 10-5 | 11-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 |
| 275.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 |
| 300.00 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 |
| 325.00 | 2-4 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 350.00 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 |
| 375.00 | 3-1 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 |
| 400.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-4 | 5-7 | 5-10 |
| 425.00 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-5 | 5-8 | 6-0 | 6-4 | 6-7 |
| 450.00 | 4-5 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-9 | 7-1 | 7-5 |
| 475.00 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 | 6-9 | 7-1 | 7-6 | 7-10 | 8-3 |
| 500.00 | 5-5 | 5-10 | 6-2 | 6-7 | 7-0 | 7-5 | 7-10 | 8-4 | 8-9 | 9-2 |
| 525.00 | 6-0 | 6-5 | 6-10 | 7-3 | 7-9 | 8-2 | 8-8 | 9-2 | 9-7 | 10-1 |
| 550.00 | 6-7 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-7 | 11-1 |
| 575.00 | 7-2 | 7-8 | 8-2 | 8-9 | 9-3 | 9-10 | 10-5 | 11-0 | 11-6 | 12-1 |
| 600.00 | 7-10 | 8-4 | 8-11 | 9-6 | 10-1 | 10-9 | 11-4 | 11-11 | 12-7 | 13-2 |
| 625.00 | 8-6 | 9-1 | 9-8 | 10-4 | 11-0 | 11-8 | 12-4 | 13-0 | 13-8 | 14-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 |
| 275.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 |
| 300.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 |
| 325.00 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 | 4-5 |
| 350.00 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-5 | 4-8 | 4-11 | 5-1 |
| 375.00 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 |
| 400.00 | 4-0 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-8 |
| 425.00 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 |
| 450.00 | 5-1 | 5-6 | 5-10 | 6-3 | 6-7 | 7-0 | 7-4 | 7-9 | 8-1 | 8-5 |
| 475.00 | 5-8 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 |
| 500.00 | 6-4 | 6-9 | 7-3 | 7-8 | 8-2 | 8-8 | 9-1 | 9-6 | 10-0 | 10-5 |
| 525.00 | 6-11 | 7-5 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-6 | 11-0 | 11-5 |
| 550.00 | 7-7 | 8-2 | 8-9 | 9-4 | 9-11 | 10-5 | 11-0 | 11-6 | 12-1 | 12-7 |
| 575.00 | 8-4 | 8-11 | 9-7 | 10-2 | 10-10 | 11-5 | 12-0 | 12-7 | 13-2 | 13-9 |
| 600.00 | 9-1 | 9-9 | 10-5 | 11-1 | 11-9 | 12-5 | 13-1 | 13-9 | 14-4 | 14-11 |
| 625.00 | 9-10 | 10-7 | 11-4 | 12-0 | 12-9 | 13-6 | 14-2 | 14-11 | 15-7 | 16-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 0.39 | 1844 | 0.3 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 0.14 | 2480 | 0.12 | 2837 |
| 30 | 0 | 0 | 0 | 0.277 | 0.15 | 2244 | 0.13 | 2685 |
| 40 | 0 | 0 | 0 | 0.277 | 0.17 | 2010 | 0.14 | 2530 |
| 50 | 0 | 0 | 0 | 0.277 | 0.19 | 1777 | 0.15 | 2371 |
| 60 | 0 | 0 | 0 | 0.277 | 0.22 | 1546 | 0.16 | 2208 |
| 70 | 0 | 0 | 0 | 0.277 | 0.26 | 1319 | 0.17 | 2042 |
| 80 | 0 | 0 | 0 | 0.277 | 0.32 | 1099 | 0.18 | 1872 |
| 90 | 0 | 0 | 0 | 0.277 | 0.39 | 891 | 0.2 | 1700 |
| 100 | 0 | 0 | 0 | 0.277 | 0.49 | 706 | 0.23 | 1524 |
| 110 | 0 | 0 | 0 | 0.277 | 0.54 | 647 | 0.26 | 1347 |
| 120 | 0 | 0 | 0 | 0.277 | 0.58 | 600 | 0.3 | 1169 |
| 130 | 0 | 0 | 0 | 0.277 | 0.62 | 556 | 0.35 | 993 |
| 167 | 0 | 0 | 0 | 0.277 | 0.84 | 413 | 0.74 | 467 |
| 212 | 0 | 0 | 0 | 0.277 | 1.17 | 297 | 1.05 | 331 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 1.48 | 1948 | 1.2 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 0.58 | 2388 | 0.5 | 2748 |
| 30 | 0 | 0 | 0 | 0.277 | 0.64 | 2161 | 0.53 | 2597 |
| 40 | 0 | 0 | 0 | 0.277 | 0.71 | 1938 | 0.57 | 2442 |
| 50 | 0 | 0 | 0 | 0.277 | 0.81 | 1720 | 0.61 | 2285 |
| 60 | 0 | 0 | 0 | 0.277 | 0.92 | 1511 | 0.65 | 2126 |
| 70 | 0 | 0 | 0 | 0.277 | 1.06 | 1313 | 0.71 | 1964 |
| 80 | 0 | 0 | 0 | 0.277 | 1.22 | 1131 | 0.77 | 1801 |
| 90 | 0 | 0 | 0 | 0.277 | 1.43 | 972 | 0.85 | 1638 |
| 100 | 0 | 0 | 0 | 0.277 | 1.65 | 837 | 0.94 | 1476 |
| 110 | 0 | 0 | 0 | 0.277 | 1.9 | 728 | 1.05 | 1318 |
| 120 | 0 | 0 | 0 | 0.277 | 2.01 | 688 | 1.19 | 1166 |
| 130 | 0 | 0 | 0 | 0.277 | 2.12 | 654 | 1.35 | 1024 |
| 167 | 0 | 0 | 0 | 0.277 | 2.53 | 547 | 2.16 | 642 |
| 212 | 0 | 0 | 0 | 0.277 | 3.07 | 451 | 2.9 | 477 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 3.16 | 2054 | 2.71 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 1.39 | 2242 | 1.2 | 2603 |
| 30 | 0 | 0 | 0 | 0.277 | 1.53 | 2031 | 1.27 | 2454 |
| 40 | 0 | 0 | 0 | 0.277 | 1.7 | 1829 | 1.35 | 2303 |
| 50 | 0 | 0 | 0 | 0.277 | 1.9 | 1638 | 1.45 | 2152 |
| 60 | 0 | 0 | 0 | 0.277 | 2.13 | 1461 | 1.56 | 1999 |
| 70 | 0 | 0 | 0 | 0.277 | 2.4 | 1300 | 1.69 | 1848 |
| 80 | 0 | 0 | 0 | 0.277 | 2.69 | 1159 | 1.83 | 1699 |
| 90 | 0 | 0 | 0 | 0.277 | 3 | 1038 | 2.01 | 1553 |
| 100 | 0 | 0 | 0 | 0.277 | 3.33 | 936 | 2.2 | 1414 |
| 110 | 0 | 0 | 0 | 0.277 | 3.67 | 850 | 2.43 | 1283 |
| 120 | 0 | 0 | 0 | 0.277 | 4 | 779 | 2.68 | 1162 |
| 130 | 0 | 0 | 0 | 0.277 | 4.21 | 741 | 2.96 | 1054 |
| 167 | 0 | 0 | 0 | 0.277 | 4.78 | 652 | 4.08 | 763 |
| 212 | 0 | 0 | 0 | 0.277 | 5.5 | 568 | 5.3 | 589 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 5.4 | 2142 | 4.82 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 2.7 | 2055 | 2.3 | 2411 |
| 30 | 0 | 0 | 0 | 0.277 | 2.96 | 1872 | 2.44 | 2269 |
| 40 | 0 | 0 | 0 | 0.277 | 3.26 | 1702 | 2.61 | 2126 |
| 50 | 0 | 0 | 0 | 0.277 | 3.58 | 1546 | 2.79 | 1986 |
| 60 | 0 | 0 | 0 | 0.277 | 3.94 | 1406 | 3 | 1848 |
| 70 | 0 | 0 | 0 | 0.277 | 4.32 | 1283 | 3.23 | 1714 |
| 80 | 0 | 0 | 0 | 0.277 | 4.71 | 1176 | 3.49 | 1586 |
| 90 | 0 | 0 | 0 | 0.277 | 5.12 | 1083 | 3.78 | 1466 |
| 100 | 0 | 0 | 0 | 0.277 | 5.52 | 1004 | 4.09 | 1354 |
| 110 | 0 | 0 | 0 | 0.277 | 5.93 | 935 | 4.43 | 1252 |
| 120 | 0 | 0 | 0 | 0.277 | 6.33 | 877 | 4.78 | 1160 |
| 130 | 0 | 0 | 0 | 0.277 | 6.72 | 826 | 5.14 | 1078 |
| 167 | 0 | 0 | 0 | 0.277 | 7.55 | 735 | 6.52 | 850 |
| 212 | 0 | 0 | 0 | 0.277 | 8.4 | 660 | 8.13 | 683 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.577 | 8.18 | 2208 | 7.53 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 4.66 | 1859 | 3.95 | 2191 |
| 30 | 0 | 0 | 0 | 0.277 | 5.06 | 1713 | 4.2 | 2061 |
| 40 | 0 | 0 | 0 | 0.277 | 5.48 | 1580 | 4.48 | 1935 |
| 50 | 0 | 0 | 0 | 0.277 | 5.93 | 1461 | 4.78 | 1813 |
| 60 | 0 | 0 | 0 | 0.277 | 6.39 | 1356 | 5.1 | 1696 |
| 70 | 0 | 0 | 0 | 0.277 | 6.86 | 1264 | 5.46 | 1587 |
| 80 | 0 | 0 | 0 | 0.277 | 7.33 | 1182 | 5.83 | 1485 |
| 90 | 0 | 0 | 0 | 0.277 | 7.8 | 1111 | 6.23 | 1391 |
| 100 | 0 | 0 | 0 | 0.277 | 8.26 | 1049 | 6.64 | 1305 |
| 110 | 0 | 0 | 0 | 0.277 | 8.72 | 994 | 7.06 | 1228 |
| 120 | 0 | 0 | 0 | 0.277 | 9.17 | 945 | 7.48 | 1158 |
| 130 | 0 | 0 | 0 | 0.277 | 9.61 | 902 | 7.91 | 1095 |
| 167 | 0 | 0 | 0 | 0.277 | 10.81 | 802 | 9.49 | 913 |
| 212 | 0 | 0 | 0 | 0.277 | 11.8 | 735 | 11.3 | 767 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-1 | 1-2 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-8 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-7 | 2-0 | 2-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS



OH809.61

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 250.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 |
| 175.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-5 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 3-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 225.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 |
| 250.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-1 |
| 300.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 |
| 325.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 |
| 350.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-4 |
| 375.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-2 | 3-5 | 3-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 |
| 225.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 |
| 275.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 | 3-1 |
| 300.00 | 1-5 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 3-0 | 3-4 | 3-8 |
| 325.00 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-6 | 3-11 | 4-4 |
| 350.00 | 1-11 | 2-1 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 | 4-1 | 4-6 | 5-0 |
| 375.00 | 2-2 | 2-5 | 2-8 | 3-0 | 3-4 | 3-9 | 4-2 | 4-8 | 5-2 | 5-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 250.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 |
| 300.00 | 1-4 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 325.00 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 |
| 350.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 |
| 375.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 |
| 400.00 | 2-4 | 2-5 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 |
| 425.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 5-0 |
| 450.00 | 2-11 | 3-1 | 3-4 | 3-6 | 3-10 | 4-1 | 4-5 | 4-9 | 5-2 | 5-7 |
| 475.00 | 3-3 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 4-11 | 5-4 | 5-9 | 6-3 |
| 500.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-8 | 5-1 | 5-6 | 5-11 | 6-5 | 6-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 |
| 250.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 275.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-10 |
| 300.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 |
| 325.00 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 |
| 350.00 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-11 | 4-3 | 4-6 |
| 375.00 | 2-4 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 |
| 400.00 | 2-8 | 3-0 | 3-3 | 3-7 | 3-11 | 4-4 | 4-9 | 5-1 | 5-6 | 5-11 |
| 425.00 | 3-1 | 3-4 | 3-8 | 4-1 | 4-5 | 4-11 | 5-4 | 5-9 | 6-3 | 6-8 |
| 450.00 | 3-5 | 3-9 | 4-1 | 4-6 | 5-0 | 5-6 | 6-0 | 6-6 | 7-0 | 7-6 |
| 475.00 | 3-10 | 4-2 | 4-7 | 5-1 | 5-7 | 6-1 | 6-8 | 7-3 | 7-9 | 8-4 |
| 500.00 | 4-3 | 4-8 | 5-1 | 5-7 | 6-2 | 6-9 | 7-4 | 8-0 | 8-8 | 9-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 275.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |
| 300.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 |
| 325.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 350.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 |
| 375.00 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 |
| 400.00 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 |
| 425.00 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 |
| 450.00 | 3-2 | 3-5 | 3-8 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 | 5-4 | 5-9 |
| 475.00 | 3-7 | 3-9 | 4-0 | 4-4 | 4-7 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 |
| 500.00 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-5 | 5-10 | 6-3 | 6-8 | 7-1 |
| 525.00 | 4-4 | 4-8 | 4-11 | 5-3 | 5-8 | 6-0 | 6-5 | 6-10 | 7-4 | 7-9 |
| 550.00 | 4-9 | 5-1 | 5-5 | 5-9 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-6 |
| 575.00 | 5-3 | 5-7 | 5-11 | 6-4 | 6-9 | 7-3 | 7-9 | 8-3 | 8-9 | 9-4 |
| 600.00 | 5-8 | 6-1 | 6-5 | 6-11 | 7-4 | 7-10 | 8-5 | 9-0 | 9-7 | 10-2 |
| 625.00 | 6-2 | 6-7 | 7-0 | 7-6 | 8-0 | 8-6 | 9-1 | 9-9 | 10-4 | 11-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 |
| 275.00 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 |
| 300.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 325.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 |
| 350.00 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 |
| 375.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 |
| 400.00 | 3-0 | 3-3 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 |
| 425.00 | 3-4 | 3-8 | 4-0 | 4-3 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-4 |
| 450.00 | 3-9 | 4-1 | 4-5 | 4-10 | 5-2 | 5-7 | 5-11 | 6-4 | 6-8 | 7-1 |
| 475.00 | 4-2 | 4-7 | 4-11 | 5-4 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-10 |
| 500.00 | 4-8 | 5-1 | 5-6 | 5-11 | 6-5 | 6-10 | 7-4 | 7-10 | 8-3 | 8-9 |
| 525.00 | 5-2 | 5-7 | 6-1 | 6-6 | 7-1 | 7-7 | 8-1 | 8-7 | 9-1 | 9-7 |
| 550.00 | 5-8 | 6-1 | 6-8 | 7-2 | 7-9 | 8-4 | 8-10 | 9-5 | 10-0 | 10-7 |
| 575.00 | 6-2 | 6-8 | 7-3 | 7-10 | 8-5 | 9-1 | 9-8 | 10-4 | 10-11 | 11-6 |
| 600.00 | 6-8 | 7-3 | 7-11 | 8-6 | 9-2 | 9-10 | 10-7 | 11-3 | 11-11 | 12-7 |
| 625.00 | 7-3 | 7-11 | 8-7 | 9-3 | 10-0 | 10-9 | 11-5 | 12-2 | 12-11 | 13-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 1.22 | 937 | 1.14 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 0.4 | 875 | 0.35 | 999 |
| 30 | 0 | 0 | 0 | 0.277 | 0.5 | 692 | 0.41 | 836 |
| 40 | 0 | 0 | 0 | 0.277 | 0.64 | 545 | 0.51 | 685 |
| 50 | 0 | 0 | 0 | 0.277 | 0.79 | 437 | 0.62 | 556 |
| 60 | 0 | 0 | 0 | 0.277 | 0.95 | 364 | 0.76 | 454 |
| 70 | 0 | 0 | 0 | 0.277 | 1.11 | 313 | 0.91 | 380 |
| 80 | 0 | 0 | 0 | 0.277 | 1.25 | 277 | 1.06 | 327 |
| 90 | 0 | 0 | 0 | 0.277 | 1.36 | 255 | 1.2 | 288 |
| 100 | 0 | 0 | 0 | 0.277 | 1.43 | 242 | 1.34 | 259 |
| 110 | 0 | 0 | 0 | 0.277 | 1.5 | 230 | 1.46 | 237 |
| 120 | 0 | 0 | 0 | 0.277 | 1.58 | 220 | 1.55 | 224 |
| 130 | 0 | 0 | 0 | 0.277 | 1.65 | 211 | 1.62 | 214 |
| 167 | 0 | 0 | 0 | 0.277 | 1.89 | 183 | 1.86 | 186 |
| 212 | 0 | 0 | 0 | 0.277 | 2.16 | 160 | 2.14 | 162 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 4.66 | 980 | 4.56 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 3.57 | 388 | 3.36 | 413 |
| 30 | 0 | 0 | 0 | 0.277 | 3.77 | 367 | 3.56 | 389 |
| 40 | 0 | 0 | 0 | 0.277 | 3.97 | 350 | 3.76 | 369 |
| 50 | 0 | 0 | 0 | 0.277 | 4.16 | 334 | 3.94 | 352 |
| 60 | 0 | 0 | 0 | 0.277 | 4.34 | 320 | 4.13 | 336 |
| 70 | 0 | 0 | 0 | 0.277 | 4.51 | 308 | 4.3 | 322 |
| 80 | 0 | 0 | 0 | 0.277 | 4.68 | 297 | 4.47 | 310 |
| 90 | 0 | 0 | 0 | 0.277 | 4.84 | 287 | 4.64 | 299 |
| 100 | 0 | 0 | 0 | 0.277 | 4.95 | 280 | 4.8 | 289 |
| 110 | 0 | 0 | 0 | 0.277 | 5.05 | 275 | 4.96 | 280 |
| 120 | 0 | 0 | 0 | 0.277 | 5.15 | 270 | 5.11 | 272 |
| 130 | 0 | 0 | 0 | 0.277 | 5.24 | 265 | 5.21 | 266 |
| 167 | 0 | 0 | 0 | 0.277 | 5.58 | 249 | 5.55 | 250 |
| 212 | 0 | 0 | 0 | 0.277 | 5.98 | 232 | 5.95 | 234 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 10.39 | 991 | 10.3 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 9.32 | 335 | 9.12 | 343 |
| 30 | 0 | 0 | 0 | 0.277 | 9.51 | 329 | 9.31 | 336 |
| 40 | 0 | 0 | 0 | 0.277 | 9.7 | 323 | 9.5 | 329 |
| 50 | 0 | 0 | 0 | 0.277 | 9.88 | 317 | 9.68 | 323 |
| 60 | 0 | 0 | 0 | 0.277 | 10.06 | 311 | 9.86 | 318 |
| 70 | 0 | 0 | 0 | 0.277 | 10.24 | 306 | 10.03 | 312 |
| 80 | 0 | 0 | 0 | 0.277 | 10.41 | 301 | 10.2 | 307 |
| 90 | 0 | 0 | 0 | 0.277 | 10.58 | 296 | 10.37 | 302 |
| 100 | 0 | 0 | 0 | 0.277 | 10.72 | 292 | 10.54 | 297 |
| 110 | 0 | 0 | 0 | 0.277 | 10.83 | 289 | 10.71 | 292 |
| 120 | 0 | 0 | 0 | 0.277 | 10.93 | 287 | 10.87 | 288 |
| 130 | 0 | 0 | 0 | 0.277 | 11.04 | 284 | 11.01 | 285 |
| 167 | 0 | 0 | 0 | 0.277 | 11.42 | 274 | 11.39 | 275 |
| 212 | 0 | 0 | 0 | 0.277 | 11.88 | 264 | 11.84 | 265 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 18.47 | 995 | 18.38 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 17.41 | 321 | 17.22 | 324 |
| 30 | 0 | 0 | 0 | 0.277 | 17.59 | 317 | 17.4 | 321 |
| 40 | 0 | 0 | 0 | 0.277 | 17.78 | 314 | 17.58 | 318 |
| 50 | 0 | 0 | 0 | 0.277 | 17.96 | 311 | 17.76 | 314 |
| 60 | 0 | 0 | 0 | 0.277 | 18.14 | 308 | 17.93 | 311 |
| 70 | 0 | 0 | 0 | 0.277 | 18.31 | 305 | 18.11 | 308 |
| 80 | 0 | 0 | 0 | 0.277 | 18.49 | 302 | 18.28 | 306 |
| 90 | 0 | 0 | 0 | 0.277 | 18.66 | 299 | 18.45 | 303 |
| 100 | 0 | 0 | 0 | 0.277 | 18.81 | 297 | 18.62 | 300 |
| 110 | 0 | 0 | 0 | 0.277 | 18.92 | 295 | 18.79 | 297 |
| 120 | 0 | 0 | 0 | 0.277 | 19.03 | 294 | 18.96 | 295 |
| 130 | 0 | 0 | 0 | 0.277 | 19.14 | 292 | 19.11 | 293 |
| 167 | 0 | 0 | 0 | 0.277 | 19.55 | 286 | 19.52 | 287 |
| 212 | 0 | 0 | 0 | 0.277 | 20.03 | 279 | 20 | 280 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 28.95 | 997 | 28.85 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 27.89 | 314 | 27.7 | 316 |
| 30 | 0 | 0 | 0 | 0.277 | 28.07 | 312 | 27.88 | 314 |
| 40 | 0 | 0 | 0 | 0.277 | 28.25 | 310 | 28.05 | 312 |
| 50 | 0 | 0 | 0 | 0.277 | 28.43 | 308 | 28.23 | 311 |
| 60 | 0 | 0 | 0 | 0.277 | 28.61 | 307 | 28.41 | 309 |
| 70 | 0 | 0 | 0 | 0.277 | 28.79 | 305 | 28.58 | 307 |
| 80 | 0 | 0 | 0 | 0.277 | 28.96 | 303 | 28.76 | 305 |
| 90 | 0 | 0 | 0 | 0.277 | 29.14 | 301 | 28.93 | 303 |
| 100 | 0 | 0 | 0 | 0.277 | 29.29 | 300 | 29.1 | 301 |
| 110 | 0 | 0 | 0 | 0.277 | 29.41 | 298 | 29.27 | 300 |
| 120 | 0 | 0 | 0 | 0.277 | 29.52 | 297 | 29.44 | 298 |
| 130 | 0 | 0 | 0 | 0.277 | 29.63 | 296 | 29.6 | 297 |
| 167 | 0 | 0 | 0 | 0.277 | 30.05 | 292 | 30.02 | 293 |
| 212 | 0 | 0 | 0 | 0.277 | 30.55 | 288 | 30.51 | 288 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 |
| 125.00 | 0-6 | 0-8 | 0-9 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 | 2-1 | 2-3 |
| 150.00 | 0-9 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-8 | 3-0 | 3-4 |
| 175.00 | 1-1 | 1-3 | 1-7 | 1-11 | 2-4 | 2-10 | 3-3 | 3-8 | 4-1 | 4-6 |
| 200.00 | 1-5 | 1-8 | 2-0 | 2-6 | 3-1 | 3-8 | 4-3 | 4-10 | 5-4 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-7 | 0-9 | 1-0 | 1-3 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 |
| 150.00 | 0-11 | 1-2 | 1-5 | 1-9 | 2-2 | 2-6 | 2-10 | 3-1 | 3-3 | 3-5 |
| 175.00 | 1-3 | 1-6 | 1-11 | 2-5 | 2-11 | 3-5 | 3-10 | 4-2 | 4-5 | 4-7 |
| 200.00 | 1-7 | 2-0 | 2-7 | 3-2 | 3-10 | 4-5 | 5-0 | 5-5 | 5-9 | 6-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 150.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 |
| 200.00 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 |
| 225.00 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 |
| 250.00 | 5-3 | 5-7 | 5-10 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 |
| 125.00 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-9 | 2-10 |
| 175.00 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-10 |
| 200.00 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 |
| 225.00 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-3 | 6-5 |
| 250.00 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-1 | 7-4 | 7-7 | 7-9 | 7-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.70

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 |
| 175.00 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 |
| 200.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 225.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 250.00 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-4 | 7-5 |
| 275.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 |
| 300.00 | 9-1 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-7 | 10-9 |
| 325.00 | 10-9 | 10-11 | 11-2 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 | 12-5 | 12-7 |
| 350.00 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-11 | 14-2 | 14-4 | 14-7 |
| 375.00 | 14-3 | 14-7 | 14-10 | 15-2 | 15-5 | 15-8 | 15-11 | 16-3 | 16-6 | 16-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 |
| 175.00 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 |
| 200.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 |
| 225.00 | 5-3 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 250.00 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 |
| 275.00 | 7-10 | 8-0 | 8-2 | 8-4 | 8-5 | 8-7 | 8-9 | 8-11 | 9-0 | 9-1 |
| 300.00 | 9-4 | 9-6 | 9-8 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-10 |
| 325.00 | 10-11 | 11-2 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-9 |
| 350.00 | 12-8 | 12-11 | 13-3 | 13-5 | 13-8 | 13-11 | 14-2 | 14-5 | 14-7 | 14-9 |
| 375.00 | 14-7 | 14-11 | 15-2 | 15-5 | 15-9 | 16-0 | 16-3 | 16-7 | 16-9 | 16-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 |
| 225.00 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 |
| 250.00 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 |
| 275.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 |
| 300.00 | 9-8 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-6 | 10-7 |
| 325.00 | 11-4 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-5 |
| 350.00 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-1 | 14-3 | 14-5 |
| 375.00 | 15-2 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-4 | 16-6 |
| 400.00 | 17-3 | 17-5 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-10 |
| 425.00 | 19-5 | 19-8 | 19-10 | 20-1 | 20-3 | 20-5 | 20-8 | 20-10 | 21-0 | 21-3 |
| 450.00 | 21-10 | 22-0 | 22-3 | 22-6 | 22-9 | 22-11 | 23-2 | 23-4 | 23-7 | 23-10 |
| 475.00 | 24-4 | 24-7 | 24-10 | 25-1 | 25-4 | 25-7 | 25-10 | 26-1 | 26-4 | 26-6 |
| 500.00 | 26-11 | 27-3 | 27-6 | 27-9 | 28-1 | 28-4 | 28-7 | 28-11 | 29-2 | 29-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 |
| 225.00 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 |
| 250.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 |
| 275.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 |
| 300.00 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 | 10-8 |
| 325.00 | 11-6 | 11-7 | 11-9 | 11-10 | 12-0 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 |
| 350.00 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 |
| 375.00 | 15-4 | 15-6 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-6 | 16-7 |
| 400.00 | 17-5 | 17-7 | 17-9 | 17-11 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 18-11 |
| 425.00 | 19-8 | 19-10 | 20-1 | 20-3 | 20-6 | 20-8 | 20-11 | 21-1 | 21-3 | 21-4 |
| 450.00 | 22-1 | 22-3 | 22-6 | 22-9 | 23-0 | 23-2 | 23-5 | 23-8 | 23-10 | 24-0 |
| 475.00 | 24-7 | 24-10 | 25-1 | 25-4 | 25-7 | 25-10 | 26-1 | 26-4 | 26-7 | 26-9 |
| 500.00 | 27-3 | 27-6 | 27-10 | 28-1 | 28-5 | 28-8 | 28-11 | 29-2 | 29-5 | 29-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 |
| 275.00 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 |
| 300.00 | 9-11 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 |
| 325.00 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 | 12-3 | 12-4 |
| 350.00 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 |
| 375.00 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 |
| 400.00 | 17-8 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-5 | 18-6 | 18-7 | 18-8 |
| 425.00 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-8 | 20-9 | 20-11 | 21-0 | 21-1 |
| 450.00 | 22-5 | 22-7 | 22-8 | 22-10 | 23-0 | 23-2 | 23-3 | 23-5 | 23-7 | 23-8 |
| 475.00 | 25-0 | 25-2 | 25-4 | 25-6 | 25-8 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 |
| 500.00 | 27-8 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 | 29-3 |
| 525.00 | 30-7 | 30-9 | 30-11 | 31-2 | 31-4 | 31-6 | 31-9 | 31-11 | 32-1 | 32-3 |
| 550.00 | 33-7 | 33-9 | 34-0 | 34-2 | 34-5 | 34-7 | 34-10 | 35-0 | 35-3 | 35-5 |
| 575.00 | 36-8 | 36-11 | 37-2 | 37-5 | 37-7 | 37-10 | 38-1 | 38-4 | 38-7 | 38-9 |
| 600.00 | 39-11 | 40-3 | 40-6 | 40-9 | 41-0 | 41-3 | 41-6 | 41-9 | 42-0 | 42-3 |
| 625.00 | 43-5 | 43-8 | 43-11 | 44-3 | 44-6 | 44-9 | 45-1 | 45-4 | 45-7 | 45-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 |
| 275.00 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 |
| 300.00 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 |
| 325.00 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-5 |
| 350.00 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 |
| 375.00 | 15-8 | 15-9 | 15-10 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 |
| 400.00 | 17-10 | 17-11 | 18-1 | 18-2 | 18-3 | 18-5 | 18-6 | 18-7 | 18-9 | 18-9 |
| 425.00 | 20-2 | 20-3 | 20-5 | 20-6 | 20-8 | 20-9 | 20-11 | 21-0 | 21-2 | 21-3 |
| 450.00 | 22-7 | 22-9 | 22-10 | 23-0 | 23-2 | 23-4 | 23-5 | 23-7 | 23-8 | 23-10 |
| 475.00 | 25-2 | 25-4 | 25-6 | 25-8 | 25-10 | 26-0 | 26-2 | 26-3 | 26-5 | 26-6 |
| 500.00 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 29-0 | 29-2 | 29-4 | 29-5 |
| 525.00 | 30-9 | 31-0 | 31-2 | 31-4 | 31-7 | 31-9 | 31-11 | 32-2 | 32-4 | 32-5 |
| 550.00 | 33-9 | 34-0 | 34-3 | 34-5 | 34-8 | 34-10 | 35-1 | 35-4 | 35-6 | 35-7 |
| 575.00 | 36-11 | 37-2 | 37-5 | 37-8 | 37-11 | 38-2 | 38-4 | 38-7 | 38-10 | 38-11 |
| 600.00 | 40-3 | 40-6 | 40-9 | 41-0 | 41-3 | 41-6 | 41-9 | 42-1 | 42-3 | 42-5 |
| 625.00 | 43-8 | 44-0 | 44-3 | 44-6 | 44-10 | 45-1 | 45-4 | 45-8 | 45-11 | 46-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 0.87 | 1313 | 0.76 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 0.21 | 1612 | 0.19 | 1782 |
| 30 | 0 | 0 | 0 | 0.277 | 0.25 | 1384 | 0.21 | 1612 |
| 40 | 0 | 0 | 0 | 0.277 | 0.3 | 1162 | 0.24 | 1440 |
| 50 | 0 | 0 | 0 | 0.277 | 0.36 | 949 | 0.27 | 1267 |
| 60 | 0 | 0 | 0 | 0.277 | 0.46 | 756 | 0.32 | 1093 |
| 70 | 0 | 0 | 0 | 0.277 | 0.58 | 595 | 0.37 | 924 |
| 80 | 0 | 0 | 0 | 0.277 | 0.73 | 473 | 0.45 | 762 |
| 90 | 0 | 0 | 0 | 0.277 | 0.89 | 389 | 0.56 | 619 |
| 100 | 0 | 0 | 0 | 0.277 | 0.96 | 361 | 0.69 | 501 |
| 110 | 0 | 0 | 0 | 0.277 | 1.03 | 335 | 0.84 | 413 |
| 120 | 0 | 0 | 0 | 0.277 | 1.11 | 312 | 0.99 | 350 |
| 130 | 0 | 0 | 0 | 0.277 | 1.19 | 292 | 1.13 | 305 |
| 167 | 0 | 0 | 0 | 0.277 | 1.46 | 237 | 1.41 | 246 |
| 212 | 0 | 0 | 0 | 0.277 | 1.78 | 195 | 1.73 | 201 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 3.17 | 1440 | 3.04 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 1.42 | 979 | 1.21 | 1142 |
| 30 | 0 | 0 | 0 | 0.277 | 1.64 | 843 | 1.38 | 1006 |
| 40 | 0 | 0 | 0 | 0.277 | 1.89 | 733 | 1.57 | 885 |
| 50 | 0 | 0 | 0 | 0.277 | 2.15 | 646 | 1.78 | 780 |
| 60 | 0 | 0 | 0 | 0.277 | 2.4 | 578 | 2 | 691 |
| 70 | 0 | 0 | 0 | 0.277 | 2.65 | 523 | 2.24 | 619 |
| 80 | 0 | 0 | 0 | 0.277 | 2.89 | 480 | 2.48 | 560 |
| 90 | 0 | 0 | 0 | 0.277 | 3.12 | 445 | 2.71 | 512 |
| 100 | 0 | 0 | 0 | 0.277 | 3.34 | 415 | 2.93 | 472 |
| 110 | 0 | 0 | 0 | 0.277 | 3.5 | 397 | 3.15 | 440 |
| 120 | 0 | 0 | 0 | 0.277 | 3.61 | 384 | 3.37 | 412 |
| 130 | 0 | 0 | 0 | 0.277 | 3.73 | 372 | 3.57 | 389 |
| 167 | 0 | 0 | 0 | 0.277 | 4.15 | 335 | 4.09 | 339 |
| 212 | 0 | 0 | 0 | 0.277 | 4.63 | 300 | 4.57 | 304 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 6.97 | 1475 | 6.85 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 4.96 | 629 | 4.56 | 684 |
| 30 | 0 | 0 | 0 | 0.277 | 5.26 | 593 | 4.85 | 643 |
| 40 | 0 | 0 | 0 | 0.277 | 5.55 | 562 | 5.14 | 607 |
| 50 | 0 | 0 | 0 | 0.277 | 5.84 | 535 | 5.43 | 575 |
| 60 | 0 | 0 | 0 | 0.277 | 6.11 | 511 | 5.7 | 547 |
| 70 | 0 | 0 | 0 | 0.277 | 6.38 | 489 | 5.97 | 523 |
| 80 | 0 | 0 | 0 | 0.277 | 6.64 | 470 | 6.23 | 501 |
| 90 | 0 | 0 | 0 | 0.277 | 6.89 | 453 | 6.48 | 481 |
| 100 | 0 | 0 | 0 | 0.277 | 7.13 | 438 | 6.73 | 464 |
| 110 | 0 | 0 | 0 | 0.277 | 7.37 | 424 | 6.97 | 448 |
| 120 | 0 | 0 | 0 | 0.277 | 7.53 | 415 | 7.21 | 433 |
| 130 | 0 | 0 | 0 | 0.277 | 7.67 | 407 | 7.44 | 420 |
| 167 | 0 | 0 | 0 | 0.277 | 8.17 | 383 | 8.12 | 385 |
| 212 | 0 | 0 | 0 | 0.277 | 8.75 | 357 | 8.7 | 359 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 12.31 | 1486 | 12.19 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 10.3 | 539 | 9.91 | 561 |
| 30 | 0 | 0 | 0 | 0.277 | 10.59 | 525 | 10.2 | 545 |
| 40 | 0 | 0 | 0 | 0.277 | 10.88 | 511 | 10.48 | 530 |
| 50 | 0 | 0 | 0 | 0.277 | 11.16 | 498 | 10.76 | 516 |
| 60 | 0 | 0 | 0 | 0.277 | 11.43 | 486 | 11.03 | 504 |
| 70 | 0 | 0 | 0 | 0.277 | 11.7 | 475 | 11.3 | 492 |
| 80 | 0 | 0 | 0 | 0.277 | 11.96 | 465 | 11.56 | 481 |
| 90 | 0 | 0 | 0 | 0.277 | 12.22 | 455 | 11.82 | 470 |
| 100 | 0 | 0 | 0 | 0.277 | 12.47 | 446 | 12.07 | 461 |
| 110 | 0 | 0 | 0 | 0.277 | 12.72 | 437 | 12.32 | 451 |
| 120 | 0 | 0 | 0 | 0.277 | 12.93 | 430 | 12.57 | 442 |
| 130 | 0 | 0 | 0 | 0.277 | 13.08 | 425 | 12.81 | 434 |
| 167 | 0 | 0 | 0 | 0.277 | 13.63 | 408 | 13.58 | 410 |
| 212 | 0 | 0 | 0 | 0.277 | 14.28 | 390 | 14.23 | 391 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 19.21 | 1491 | 19.09 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 17.21 | 505 | 16.83 | 517 |
| 30 | 0 | 0 | 0 | 0.277 | 17.49 | 497 | 17.11 | 508 |
| 40 | 0 | 0 | 0 | 0.277 | 17.77 | 490 | 17.38 | 500 |
| 50 | 0 | 0 | 0 | 0.277 | 18.05 | 482 | 17.66 | 493 |
| 60 | 0 | 0 | 0 | 0.277 | 18.32 | 475 | 17.92 | 485 |
| 70 | 0 | 0 | 0 | 0.277 | 18.59 | 468 | 18.19 | 478 |
| 80 | 0 | 0 | 0 | 0.277 | 18.85 | 462 | 18.45 | 472 |
| 90 | 0 | 0 | 0 | 0.277 | 19.11 | 456 | 18.71 | 465 |
| 100 | 0 | 0 | 0 | 0.277 | 19.37 | 450 | 18.97 | 459 |
| 110 | 0 | 0 | 0 | 0.277 | 19.62 | 444 | 19.22 | 453 |
| 120 | 0 | 0 | 0 | 0.277 | 19.86 | 439 | 19.48 | 447 |
| 130 | 0 | 0 | 0 | 0.277 | 20.02 | 435 | 19.72 | 442 |
| 167 | 0 | 0 | 0 | 0.277 | 20.6 | 423 | 20.55 | 424 |
| 212 | 0 | 0 | 0 | 0.277 | 21.29 | 409 | 21.24 | 410 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS



OH809.76

Stringing Sag Table Using Initial Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-1 | 1-4 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-3 | 1-7 | 1-11 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-1 | 2-7 |
| 200.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-10 | 2-3 | 2-9 | 3-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-9 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-6 | 1-7 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-4 | 1-8 | 2-0 | 2-2 | 2-4 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 2-3 | 2-9 | 2-11 | 3-2 |
| 200.00 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-4 | 2-11 | 3-7 | 3-10 | 4-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 175.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 200.00 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 |
| 225.00 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 |
| 250.00 | 1-11 | 2-2 | 2-5 | 2-9 | 3-2 | 3-6 | 3-10 | 4-3 | 4-7 | 4-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-4 |
| 150.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 |
| 175.00 | 1-1 | 1-3 | 1-5 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-8 |
| 200.00 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 |
| 225.00 | 1-9 | 2-1 | 2-5 | 2-9 | 3-0 | 3-4 | 3-8 | 3-11 | 4-3 | 4-5 |
| 250.00 | 2-3 | 2-7 | 2-11 | 3-4 | 3-9 | 4-2 | 4-6 | 4-10 | 5-3 | 5-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.78

Stringing Sag Table Using Initial Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 |
| 175.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 200.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 |
| 225.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 |
| 250.00 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 |
| 275.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 |
| 300.00 | 4-7 | 4-10 | 5-2 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 |
| 325.00 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 |
| 350.00 | 6-2 | 6-7 | 7-0 | 7-5 | 7-9 | 8-2 | 8-6 | 8-10 | 9-2 | 9-6 |
| 375.00 | 7-1 | 7-7 | 8-0 | 8-6 | 8-11 | 9-4 | 9-9 | 10-2 | 10-6 | 10-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 |
| 175.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 200.00 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 |
| 225.00 | 2-9 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 |
| 250.00 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 |
| 275.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 |
| 300.00 | 4-11 | 5-3 | 5-7 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-4 |
| 325.00 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-6 | 7-9 | 8-1 | 8-4 | 8-8 |
| 350.00 | 6-9 | 7-2 | 7-7 | 7-11 | 8-4 | 8-8 | 9-0 | 9-5 | 9-9 | 10-0 |
| 375.00 | 7-9 | 8-3 | 8-8 | 9-2 | 9-7 | 10-0 | 10-5 | 10-9 | 11-2 | 11-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS



OH809.79

Stringing Sag Table Using Initial Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 |
| 225.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 250.00 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 |
| 275.00 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-10 |
| 300.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 |
| 325.00 | 6-6 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 |
| 350.00 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 | 9-5 |
| 375.00 | 8-8 | 9-0 | 9-3 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 |
| 400.00 | 9-11 | 10-2 | 10-6 | 10-9 | 11-0 | 11-4 | 11-7 | 11-10 | 12-1 | 12-4 |
| 425.00 | 11-2 | 11-6 | 11-10 | 12-2 | 12-5 | 12-9 | 13-1 | 13-4 | 13-8 | 13-11 |
| 450.00 | 12-6 | 12-11 | 13-3 | 13-7 | 14-0 | 14-4 | 14-8 | 15-0 | 15-3 | 15-7 |
| 475.00 | 14-0 | 14-5 | 14-9 | 15-2 | 15-7 | 15-11 | 16-4 | 16-8 | 17-0 | 17-5 |
| 500.00 | 15-6 | 15-11 | 16-5 | 16-10 | 17-3 | 17-8 | 18-1 | 18-6 | 18-11 | 19-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 |
| 225.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 250.00 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 |
| 275.00 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 |
| 300.00 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-2 |
| 325.00 | 6-10 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 |
| 350.00 | 7-11 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 |
| 375.00 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 | 10-9 | 11-0 | 11-2 |
| 400.00 | 10-4 | 10-7 | 10-11 | 11-2 | 11-5 | 11-8 | 12-0 | 12-3 | 12-6 | 12-9 |
| 425.00 | 11-8 | 12-0 | 12-3 | 12-7 | 12-11 | 13-3 | 13-6 | 13-10 | 14-1 | 14-4 |
| 450.00 | 13-0 | 13-5 | 13-9 | 14-1 | 14-6 | 14-10 | 15-2 | 15-6 | 15-10 | 16-1 |
| 475.00 | 14-6 | 14-11 | 15-4 | 15-9 | 16-2 | 16-6 | 16-11 | 17-3 | 17-7 | 17-11 |
| 500.00 | 16-1 | 16-7 | 17-0 | 17-5 | 17-10 | 18-3 | 18-8 | 19-1 | 19-6 | 19-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 |
| 275.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 300.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 |
| 325.00 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 |
| 350.00 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 |
| 375.00 | 9-6 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-10 |
| 400.00 | 10-9 | 10-11 | 11-1 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 |
| 425.00 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 | 13-2 | 13-4 | 13-6 | 13-8 | 13-11 |
| 450.00 | 13-8 | 13-10 | 14-1 | 14-4 | 14-6 | 14-9 | 14-11 | 15-2 | 15-4 | 15-7 |
| 475.00 | 15-2 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 | 17-1 | 17-4 |
| 500.00 | 16-10 | 17-1 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-9 | 19-0 | 19-3 |
| 525.00 | 18-7 | 18-10 | 19-2 | 19-6 | 19-9 | 20-1 | 20-4 | 20-8 | 20-11 | 21-2 |
| 550.00 | 20-4 | 20-8 | 21-0 | 21-4 | 21-8 | 22-0 | 22-4 | 22-8 | 23-0 | 23-3 |
| 575.00 | 22-3 | 22-8 | 23-0 | 23-4 | 23-9 | 24-1 | 24-5 | 24-9 | 25-1 | 25-5 |
| 600.00 | 24-3 | 24-8 | 25-1 | 25-5 | 25-10 | 26-3 | 26-7 | 27-0 | 27-4 | 27-8 |
| 625.00 | 26-4 | 26-9 | 27-2 | 27-7 | 28-0 | 28-5 | 28-10 | 29-3 | 29-8 | 30-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 300.00 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 |
| 325.00 | 7-3 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 |
| 350.00 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 |
| 375.00 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-5 | 10-7 | 10-9 | 10-11 | 11-0 |
| 400.00 | 11-0 | 11-2 | 11-4 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 |
| 425.00 | 12-5 | 12-8 | 12-10 | 13-0 | 13-3 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 |
| 450.00 | 13-11 | 14-2 | 14-5 | 14-7 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-11 |
| 475.00 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 | 17-3 | 17-6 | 17-8 |
| 500.00 | 17-2 | 17-6 | 17-9 | 18-1 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 |
| 525.00 | 19-0 | 19-3 | 19-7 | 19-11 | 20-2 | 20-6 | 20-9 | 21-1 | 21-4 | 21-8 |
| 550.00 | 20-10 | 21-2 | 21-6 | 21-10 | 22-2 | 22-6 | 22-10 | 23-2 | 23-5 | 23-9 |
| 575.00 | 22-9 | 23-2 | 23-6 | 23-11 | 24-3 | 24-7 | 24-11 | 25-3 | 25-8 | 26-0 |
| 600.00 | 24-10 | 25-2 | 25-7 | 26-0 | 26-5 | 26-9 | 27-2 | 27-7 | 27-11 | 28-3 |
| 625.00 | 26-11 | 27-4 | 27-10 | 28-3 | 28-8 | 29-1 | 29-6 | 29-11 | 30-4 | 30-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 0.69 | 1648 | 0.57 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 0.17 | 2098 | 0.15 | 2364 |
| 30 | 0 | 0 | 0 | 0.277 | 0.19 | 1864 | 0.16 | 2203 |
| 40 | 0 | 0 | 0 | 0.277 | 0.21 | 1633 | 0.17 | 2039 |
| 50 | 0 | 0 | 0 | 0.277 | 0.25 | 1404 | 0.18 | 1872 |
| 60 | 0 | 0 | 0 | 0.277 | 0.29 | 1181 | 0.2 | 1701 |
| 70 | 0 | 0 | 0 | 0.277 | 0.36 | 968 | 0.23 | 1528 |
| 80 | 0 | 0 | 0 | 0.277 | 0.45 | 772 | 0.26 | 1352 |
| 90 | 0 | 0 | 0 | 0.277 | 0.57 | 607 | 0.29 | 1176 |
| 100 | 0 | 0 | 0 | 0.277 | 0.67 | 520 | 0.35 | 1002 |
| 110 | 0 | 0 | 0 | 0.277 | 0.72 | 480 | 0.42 | 834 |
| 120 | 0 | 0 | 0 | 0.277 | 0.78 | 443 | 0.51 | 680 |
| 130 | 0 | 0 | 0 | 0.277 | 0.85 | 409 | 0.63 | 549 |
| 167 | 0 | 0 | 0 | 0.277 | 1.12 | 310 | 1.03 | 335 |
| 212 | 0 | 0 | 0 | 0.277 | 1.45 | 238 | 1.37 | 253 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 2.48 | 1840 | 2.28 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 0.79 | 1746 | 0.7 | 1991 |
| 30 | 0 | 0 | 0 | 0.277 | 0.9 | 1535 | 0.76 | 1831 |
| 40 | 0 | 0 | 0 | 0.277 | 1.04 | 1335 | 0.83 | 1671 |
| 50 | 0 | 0 | 0 | 0.277 | 1.2 | 1152 | 0.92 | 1511 |
| 60 | 0 | 0 | 0 | 0.277 | 1.4 | 989 | 1.02 | 1354 |
| 70 | 0 | 0 | 0 | 0.277 | 1.63 | 852 | 1.15 | 1203 |
| 80 | 0 | 0 | 0 | 0.277 | 1.87 | 740 | 1.31 | 1061 |
| 90 | 0 | 0 | 0 | 0.277 | 2.13 | 651 | 1.49 | 931 |
| 100 | 0 | 0 | 0 | 0.277 | 2.38 | 582 | 1.69 | 818 |
| 110 | 0 | 0 | 0 | 0.277 | 2.6 | 533 | 1.92 | 722 |
| 120 | 0 | 0 | 0 | 0.277 | 2.72 | 510 | 2.15 | 643 |
| 130 | 0 | 0 | 0 | 0.277 | 2.84 | 488 | 2.39 | 579 |
| 167 | 0 | 0 | 0 | 0.277 | 3.29 | 422 | 3.19 | 435 |
| 212 | 0 | 0 | 0 | 0.277 | 3.81 | 364 | 3.72 | 373 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 5.3 | 1936 | 5.13 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 2.52 | 1235 | 2.16 | 1442 |
| 30 | 0 | 0 | 0 | 0.277 | 2.83 | 1103 | 2.37 | 1313 |
| 40 | 0 | 0 | 0 | 0.277 | 3.15 | 990 | 2.61 | 1192 |
| 50 | 0 | 0 | 0 | 0.277 | 3.48 | 896 | 2.88 | 1083 |
| 60 | 0 | 0 | 0 | 0.277 | 3.82 | 817 | 3.16 | 986 |
| 70 | 0 | 0 | 0 | 0.277 | 4.15 | 752 | 3.46 | 901 |
| 80 | 0 | 0 | 0 | 0.277 | 4.47 | 697 | 3.76 | 828 |
| 90 | 0 | 0 | 0 | 0.277 | 4.79 | 651 | 4.07 | 766 |
| 100 | 0 | 0 | 0 | 0.277 | 5.1 | 612 | 4.38 | 712 |
| 110 | 0 | 0 | 0 | 0.277 | 5.4 | 578 | 4.68 | 666 |
| 120 | 0 | 0 | 0 | 0.277 | 5.69 | 549 | 4.98 | 627 |
| 130 | 0 | 0 | 0 | 0.277 | 5.86 | 533 | 5.27 | 592 |
| 167 | 0 | 0 | 0 | 0.277 | 6.42 | 486 | 6.28 | 497 |
| 212 | 0 | 0 | 0 | 0.277 | 7.09 | 441 | 7 | 446 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 9.26 | 1972 | 9.13 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 6.1 | 908 | 5.48 | 1012 |
| 30 | 0 | 0 | 0 | 0.277 | 6.5 | 853 | 5.85 | 948 |
| 40 | 0 | 0 | 0 | 0.277 | 6.89 | 805 | 6.21 | 893 |
| 50 | 0 | 0 | 0 | 0.277 | 7.27 | 763 | 6.58 | 843 |
| 60 | 0 | 0 | 0 | 0.277 | 7.63 | 727 | 6.94 | 799 |
| 70 | 0 | 0 | 0 | 0.277 | 7.99 | 694 | 7.29 | 761 |
| 80 | 0 | 0 | 0 | 0.277 | 8.34 | 665 | 7.64 | 726 |
| 90 | 0 | 0 | 0 | 0.277 | 8.68 | 639 | 7.98 | 695 |
| 100 | 0 | 0 | 0 | 0.277 | 9.01 | 616 | 8.32 | 667 |
| 110 | 0 | 0 | 0 | 0.277 | 9.34 | 595 | 8.65 | 642 |
| 120 | 0 | 0 | 0 | 0.277 | 9.65 | 575 | 8.97 | 619 |
| 130 | 0 | 0 | 0 | 0.277 | 9.96 | 558 | 9.28 | 598 |
| 167 | 0 | 0 | 0 | 0.277 | 10.61 | 524 | 10.38 | 535 |
| 212 | 0 | 0 | 0 | 0.277 | 11.37 | 489 | 11.29 | 492 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 14.39 | 1985 | 14.28 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 11.18 | 776 | 10.52 | 824 |
| 30 | 0 | 0 | 0 | 0.277 | 11.58 | 749 | 10.91 | 795 |
| 40 | 0 | 0 | 0 | 0.277 | 11.96 | 725 | 11.29 | 768 |
| 50 | 0 | 0 | 0 | 0.277 | 12.34 | 703 | 11.67 | 743 |
| 60 | 0 | 0 | 0 | 0.277 | 12.71 | 683 | 12.04 | 721 |
| 70 | 0 | 0 | 0 | 0.277 | 13.08 | 664 | 12.4 | 700 |
| 80 | 0 | 0 | 0 | 0.277 | 13.43 | 646 | 12.75 | 680 |
| 90 | 0 | 0 | 0 | 0.277 | 13.78 | 630 | 13.1 | 662 |
| 100 | 0 | 0 | 0 | 0.277 | 14.12 | 615 | 13.45 | 646 |
| 110 | 0 | 0 | 0 | 0.277 | 14.46 | 601 | 13.78 | 630 |
| 120 | 0 | 0 | 0 | 0.277 | 14.78 | 588 | 14.11 | 615 |
| 130 | 0 | 0 | 0 | 0.277 | 15.11 | 575 | 14.44 | 602 |
| 167 | 0 | 0 | 0 | 0.277 | 15.88 | 547 | 15.6 | 557 |
| 212 | 0 | 0 | 0 | 0.277 | 16.71 | 520 | 16.64 | 523 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-5 | 1-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-7 | 0-8 | 0-11 | 1-0 | 1-2 |
| 150.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-7 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-9 | 2-0 | 2-3 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-10 | 2-3 | 2-8 | 2-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 |
| 225.00 | 0-11 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 |
| 250.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 | 2-0 | 2-4 | 2-8 | 3-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 |
| 175.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-10 | 2-0 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 | 2-2 | 2-5 | 2-7 |
| 225.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 |
| 250.00 | 1-3 | 1-5 | 1-7 | 1-11 | 2-2 | 2-7 | 2-11 | 3-4 | 3-9 | 4-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 |
| 225.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 |
| 250.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 |
| 275.00 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 |
| 300.00 | 2-2 | 2-4 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 | 4-1 | 4-5 | 4-8 |
| 325.00 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-2 | 5-6 |
| 350.00 | 2-11 | 3-3 | 3-7 | 3-11 | 4-4 | 4-9 | 5-1 | 5-7 | 6-0 | 6-4 |
| 375.00 | 3-5 | 3-9 | 4-1 | 4-6 | 4-11 | 5-5 | 5-11 | 6-4 | 6-10 | 7-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 |
| 225.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 250.00 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 |
| 275.00 | 2-1 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 |
| 300.00 | 2-6 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 |
| 325.00 | 3-0 | 3-4 | 3-8 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 | 6-0 | 6-4 |
| 350.00 | 3-5 | 3-10 | 4-3 | 4-9 | 5-2 | 5-8 | 6-1 | 6-6 | 6-11 | 7-4 |
| 375.00 | 3-11 | 4-5 | 4-11 | 5-5 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 |
| 250.00 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 |
| 275.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 |
| 300.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 |
| 325.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 |
| 350.00 | 4-2 | 4-6 | 4-9 | 5-0 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 |
| 375.00 | 4-10 | 5-2 | 5-6 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-7 |
| 400.00 | 5-6 | 5-10 | 6-3 | 6-7 | 6-11 | 7-4 | 7-8 | 8-0 | 8-4 | 8-8 |
| 425.00 | 6-2 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 | 9-0 | 9-5 | 9-9 |
| 450.00 | 6-11 | 7-5 | 7-10 | 8-4 | 8-9 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 |
| 475.00 | 7-9 | 8-3 | 8-9 | 9-3 | 9-9 | 10-3 | 10-9 | 11-3 | 11-9 | 12-2 |
| 500.00 | 8-7 | 9-2 | 9-9 | 10-3 | 10-10 | 11-5 | 11-11 | 12-6 | 13-0 | 13-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 |
| 250.00 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 |
| 275.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 |
| 300.00 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-6 | 4-8 | 4-11 | 5-1 | 5-3 |
| 325.00 | 4-0 | 4-3 | 4-7 | 4-10 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 |
| 350.00 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 |
| 375.00 | 5-4 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-8 | 7-11 | 8-2 |
| 400.00 | 6-1 | 6-6 | 6-11 | 7-3 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 |
| 425.00 | 6-11 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-5 | 9-10 | 10-2 | 10-6 |
| 450.00 | 7-9 | 8-3 | 8-9 | 9-2 | 9-8 | 10-1 | 10-7 | 11-0 | 11-5 | 11-10 |
| 475.00 | 8-7 | 9-2 | 9-9 | 10-3 | 10-9 | 11-3 | 11-9 | 12-3 | 12-9 | 13-2 |
| 500.00 | 9-6 | 10-2 | 10-9 | 11-4 | 11-11 | 12-6 | 13-0 | 13-7 | 14-1 | 14-7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 275.00 | 3-2 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 |
| 300.00 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 |
| 325.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 |
| 350.00 | 5-2 | 5-4 | 5-6 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 |
| 375.00 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 |
| 400.00 | 6-9 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 | 8-2 | 8-5 | 8-7 | 8-10 |
| 425.00 | 7-7 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 9-11 |
| 450.00 | 8-6 | 8-10 | 9-2 | 9-5 | 9-9 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 |
| 475.00 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 | 12-5 |
| 500.00 | 10-6 | 10-11 | 11-4 | 11-8 | 12-0 | 12-5 | 12-9 | 13-1 | 13-5 | 13-9 |
| 525.00 | 11-7 | 12-0 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-5 | 14-10 | 15-2 |
| 550.00 | 12-9 | 13-2 | 13-8 | 14-1 | 14-7 | 15-0 | 15-5 | 15-10 | 16-3 | 16-8 |
| 575.00 | 13-11 | 14-5 | 14-11 | 15-5 | 15-11 | 16-5 | 16-10 | 17-4 | 17-9 | 18-3 |
| 600.00 | 15-2 | 15-9 | 16-3 | 16-10 | 17-4 | 17-10 | 18-4 | 18-11 | 19-4 | 19-10 |
| 625.00 | 16-5 | 17-1 | 17-8 | 18-3 | 18-10 | 19-5 | 19-11 | 20-6 | 21-0 | 21-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 275.00 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 |
| 300.00 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 |
| 325.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 |
| 350.00 | 5-6 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 |
| 375.00 | 6-3 | 6-6 | 6-9 | 6-11 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-2 |
| 400.00 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 |
| 425.00 | 8-1 | 8-4 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 |
| 450.00 | 9-1 | 9-5 | 9-8 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 | 11-5 | 11-8 |
| 475.00 | 10-1 | 10-5 | 10-10 | 11-2 | 11-6 | 11-10 | 12-1 | 12-5 | 12-9 | 13-1 |
| 500.00 | 11-2 | 11-7 | 12-0 | 12-4 | 12-9 | 13-1 | 13-5 | 13-9 | 14-1 | 14-5 |
| 525.00 | 12-4 | 12-9 | 13-2 | 13-7 | 14-0 | 14-5 | 14-10 | 15-2 | 15-7 | 15-11 |
| 550.00 | 13-6 | 14-0 | 14-6 | 14-11 | 15-5 | 15-10 | 16-3 | 16-8 | 17-1 | 17-6 |
| 575.00 | 14-9 | 15-4 | 15-10 | 16-4 | 16-10 | 17-4 | 17-9 | 18-3 | 18-8 | 19-2 |
| 600.00 | 16-1 | 16-8 | 17-3 | 17-9 | 18-4 | 18-10 | 19-4 | 19-10 | 20-4 | 20-10 |
| 625.00 | 17-6 | 18-1 | 18-8 | 19-4 | 19-11 | 20-5 | 21-0 | 21-7 | 22-1 | 22-7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 0.59 | 1918 | 0.47 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 0.14 | 2436 | 0.12 | 2783 |
| 30 | 0 | 0 | 0 | 0.277 | 0.16 | 2201 | 0.13 | 2631 |
| 40 | 0 | 0 | 0 | 0.277 | 0.18 | 1967 | 0.14 | 2474 |
| 50 | 0 | 0 | 0 | 0.277 | 0.2 | 1734 | 0.15 | 2314 |
| 60 | 0 | 0 | 0 | 0.277 | 0.23 | 1504 | 0.16 | 2150 |
| 70 | 0 | 0 | 0 | 0.277 | 0.27 | 1278 | 0.17 | 1983 |
| 80 | 0 | 0 | 0 | 0.277 | 0.33 | 1060 | 0.19 | 1813 |
| 90 | 0 | 0 | 0 | 0.277 | 0.4 | 855 | 0.21 | 1639 |
| 100 | 0 | 0 | 0 | 0.277 | 0.51 | 675 | 0.24 | 1463 |
| 110 | 0 | 0 | 0 | 0.277 | 0.55 | 626 | 0.27 | 1286 |
| 120 | 0 | 0 | 0 | 0.277 | 0.6 | 580 | 0.31 | 1108 |
| 130 | 0 | 0 | 0 | 0.277 | 0.65 | 537 | 0.37 | 934 |
| 167 | 0 | 0 | 0 | 0.277 | 0.87 | 399 | 0.78 | 447 |
| 212 | 0 | 0 | 0 | 0.277 | 1.2 | 289 | 1.08 | 319 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 2.15 | 2118 | 1.9 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 0.63 | 2210 | 0.55 | 2533 |
| 30 | 0 | 0 | 0 | 0.277 | 0.7 | 1986 | 0.58 | 2378 |
| 40 | 0 | 0 | 0 | 0.277 | 0.78 | 1767 | 0.62 | 2221 |
| 50 | 0 | 0 | 0 | 0.277 | 0.89 | 1555 | 0.67 | 2062 |
| 60 | 0 | 0 | 0 | 0.277 | 1.02 | 1354 | 0.73 | 1900 |
| 70 | 0 | 0 | 0 | 0.277 | 1.19 | 1169 | 0.8 | 1738 |
| 80 | 0 | 0 | 0 | 0.277 | 1.38 | 1004 | 0.88 | 1576 |
| 90 | 0 | 0 | 0 | 0.277 | 1.6 | 864 | 0.98 | 1416 |
| 100 | 0 | 0 | 0 | 0.277 | 1.85 | 750 | 1.1 | 1260 |
| 110 | 0 | 0 | 0 | 0.277 | 2.09 | 661 | 1.25 | 1112 |
| 120 | 0 | 0 | 0 | 0.277 | 2.2 | 629 | 1.42 | 976 |
| 130 | 0 | 0 | 0 | 0.277 | 2.31 | 599 | 1.62 | 856 |
| 167 | 0 | 0 | 0 | 0.277 | 2.75 | 505 | 2.48 | 558 |
| 212 | 0 | 0 | 0 | 0.277 | 3.29 | 422 | 3.14 | 441 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 4.53 | 2265 | 4.27 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 1.7 | 1831 | 1.47 | 2127 |
| 30 | 0 | 0 | 0 | 0.277 | 1.9 | 1640 | 1.58 | 1977 |
| 40 | 0 | 0 | 0 | 0.277 | 2.13 | 1462 | 1.71 | 1827 |
| 50 | 0 | 0 | 0 | 0.277 | 2.39 | 1302 | 1.86 | 1680 |
| 60 | 0 | 0 | 0 | 0.277 | 2.69 | 1161 | 2.03 | 1537 |
| 70 | 0 | 0 | 0 | 0.277 | 3 | 1039 | 2.23 | 1400 |
| 80 | 0 | 0 | 0 | 0.277 | 3.33 | 937 | 2.45 | 1271 |
| 90 | 0 | 0 | 0 | 0.277 | 3.66 | 851 | 2.7 | 1153 |
| 100 | 0 | 0 | 0 | 0.277 | 4 | 780 | 2.98 | 1046 |
| 110 | 0 | 0 | 0 | 0.277 | 4.33 | 721 | 3.27 | 953 |
| 120 | 0 | 0 | 0 | 0.277 | 4.65 | 671 | 3.58 | 872 |
| 130 | 0 | 0 | 0 | 0.277 | 4.85 | 643 | 3.89 | 803 |
| 167 | 0 | 0 | 0 | 0.277 | 5.44 | 574 | 5.01 | 622 |
| 212 | 0 | 0 | 0 | 0.277 | 6.14 | 509 | 6 | 521 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 7.79 | 2342 | 7.6 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 3.95 | 1403 | 3.38 | 1640 |
| 30 | 0 | 0 | 0 | 0.277 | 4.33 | 1281 | 3.65 | 1519 |
| 40 | 0 | 0 | 0 | 0.277 | 4.72 | 1174 | 3.95 | 1405 |
| 50 | 0 | 0 | 0 | 0.277 | 5.13 | 1081 | 4.27 | 1299 |
| 60 | 0 | 0 | 0 | 0.277 | 5.53 | 1002 | 4.6 | 1204 |
| 70 | 0 | 0 | 0 | 0.277 | 5.94 | 934 | 4.96 | 1118 |
| 80 | 0 | 0 | 0 | 0.277 | 6.34 | 875 | 5.32 | 1041 |
| 90 | 0 | 0 | 0 | 0.277 | 6.73 | 825 | 5.69 | 974 |
| 100 | 0 | 0 | 0 | 0.277 | 7.11 | 780 | 6.06 | 914 |
| 110 | 0 | 0 | 0 | 0.277 | 7.48 | 742 | 6.43 | 862 |
| 120 | 0 | 0 | 0 | 0.277 | 7.84 | 707 | 6.8 | 816 |
| 130 | 0 | 0 | 0 | 0.277 | 8.2 | 677 | 7.16 | 775 |
| 167 | 0 | 0 | 0 | 0.277 | 8.97 | 619 | 8.43 | 658 |
| 212 | 0 | 0 | 0 | 0.277 | 9.8 | 567 | 9.67 | 574 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.911 | 12.01 | 2375 | 11.89 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 7.76 | 1117 | 6.91 | 1254 |
| 30 | 0 | 0 | 0 | 0.277 | 8.22 | 1054 | 7.32 | 1183 |
| 40 | 0 | 0 | 0 | 0.277 | 8.68 | 998 | 7.75 | 1118 |
| 50 | 0 | 0 | 0 | 0.277 | 9.14 | 949 | 8.17 | 1060 |
| 60 | 0 | 0 | 0 | 0.277 | 9.58 | 905 | 8.6 | 1008 |
| 70 | 0 | 0 | 0 | 0.277 | 10.01 | 866 | 9.02 | 961 |
| 80 | 0 | 0 | 0 | 0.277 | 10.43 | 831 | 9.43 | 919 |
| 90 | 0 | 0 | 0 | 0.277 | 10.85 | 799 | 9.84 | 881 |
| 100 | 0 | 0 | 0 | 0.277 | 11.25 | 771 | 10.25 | 846 |
| 110 | 0 | 0 | 0 | 0.277 | 11.65 | 745 | 10.65 | 815 |
| 120 | 0 | 0 | 0 | 0.277 | 12.03 | 721 | 11.04 | 786 |
| 130 | 0 | 0 | 0 | 0.277 | 12.41 | 699 | 11.42 | 760 |
| 167 | 0 | 0 | 0 | 0.277 | 13.41 | 648 | 12.78 | 679 |
| 212 | 0 | 0 | 0 | 0.277 | 14.32 | 606 | 14.21 | 611 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-10 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-3 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 1-8 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 2-1 | 2-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 200.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 |
| 225.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-5 | 1-7 | 1-10 | 2-1 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 |
| 250.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-2 | 2-6 | 2-11 | 3-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-11 | 2-1 | 2-3 |
| 275.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 |
| 300.00 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 3-0 | 3-3 |
| 325.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-11 | 3-2 | 3-6 | 3-10 |
| 350.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-1 | 4-5 |
| 375.00 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 | 4-3 | 4-8 | 5-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 |
| 225.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 |
| 250.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 |
| 275.00 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-10 | 3-1 | 3-4 | 3-8 |
| 300.00 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 3-0 | 3-4 | 3-8 | 4-0 | 4-4 |
| 325.00 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-6 | 3-11 | 4-4 | 4-8 | 5-1 |
| 350.00 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 | 4-1 | 4-6 | 5-0 | 5-5 | 5-11 |
| 375.00 | 2-8 | 3-0 | 3-4 | 3-9 | 4-2 | 4-8 | 5-2 | 5-9 | 6-3 | 6-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 225.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 250.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 |
| 275.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 300.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 |
| 325.00 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 |
| 350.00 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 |
| 375.00 | 3-0 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 |
| 400.00 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-8 | 6-1 | 6-5 |
| 425.00 | 3-10 | 4-1 | 4-5 | 4-10 | 5-2 | 5-7 | 6-0 | 6-5 | 6-10 | 7-3 |
| 450.00 | 4-3 | 4-7 | 5-0 | 5-5 | 5-10 | 6-3 | 6-9 | 7-2 | 7-8 | 8-2 |
| 475.00 | 4-9 | 5-2 | 5-7 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-7 | 9-1 |
| 500.00 | 5-3 | 5-8 | 6-2 | 6-8 | 7-2 | 7-9 | 8-4 | 8-11 | 9-6 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 225.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 |
| 250.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 |
| 275.00 | 1-10 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 300.00 | 2-3 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 |
| 325.00 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 |
| 350.00 | 3-0 | 3-4 | 3-7 | 3-11 | 4-3 | 4-7 | 4-10 | 5-2 | 5-5 | 5-9 |
| 375.00 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 |
| 400.00 | 3-11 | 4-4 | 4-9 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-1 | 7-6 |
| 425.00 | 4-5 | 4-11 | 5-4 | 5-9 | 6-3 | 6-8 | 7-2 | 7-7 | 8-0 | 8-5 |
| 450.00 | 5-0 | 5-6 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 |
| 475.00 | 5-7 | 6-1 | 6-8 | 7-3 | 7-10 | 8-4 | 8-11 | 9-6 | 10-0 | 10-7 |
| 500.00 | 6-2 | 6-9 | 7-5 | 8-0 | 8-8 | 9-3 | 9-11 | 10-6 | 11-1 | 11-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 |
| 275.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 |
| 300.00 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 |
| 325.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 |
| 350.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-10 | 5-0 | 5-3 |
| 375.00 | 3-11 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 |
| 400.00 | 4-5 | 4-8 | 4-11 | 5-3 | 5-6 | 5-9 | 6-0 | 6-4 | 6-7 | 6-10 |
| 425.00 | 5-0 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 |
| 450.00 | 5-7 | 5-11 | 6-3 | 6-7 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-7 |
| 475.00 | 6-3 | 6-7 | 7-0 | 7-4 | 7-9 | 8-2 | 8-6 | 8-11 | 9-3 | 9-7 |
| 500.00 | 6-11 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-5 | 9-10 | 10-3 | 10-8 |
| 525.00 | 7-7 | 8-1 | 8-6 | 9-0 | 9-6 | 9-11 | 10-5 | 10-10 | 11-4 | 11-9 |
| 550.00 | 8-4 | 8-10 | 9-4 | 9-11 | 10-5 | 10-11 | 11-5 | 11-11 | 12-5 | 12-11 |
| 575.00 | 9-2 | 9-8 | 10-3 | 10-10 | 11-4 | 11-11 | 12-6 | 13-0 | 13-7 | 14-1 |
| 600.00 | 9-11 | 10-7 | 11-2 | 11-9 | 12-5 | 13-0 | 13-7 | 14-2 | 14-9 | 15-4 |
| 625.00 | 10-10 | 11-5 | 12-1 | 12-9 | 13-5 | 14-1 | 14-9 | 15-5 | 16-0 | 16-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 |
| 275.00 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 |
| 300.00 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-2 |
| 325.00 | 3-3 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 350.00 | 3-10 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 |
| 375.00 | 4-4 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-4 | 6-7 |
| 400.00 | 5-0 | 5-3 | 5-7 | 5-10 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 |
| 425.00 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 | 7-6 | 7-10 | 8-2 | 8-5 |
| 450.00 | 6-3 | 6-8 | 7-0 | 7-5 | 7-9 | 8-1 | 8-5 | 8-9 | 9-1 | 9-5 |
| 475.00 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 | 9-0 | 9-5 | 9-9 | 10-2 | 10-6 |
| 500.00 | 7-9 | 8-3 | 8-8 | 9-2 | 9-7 | 10-0 | 10-5 | 10-10 | 11-3 | 11-8 |
| 525.00 | 8-7 | 9-1 | 9-7 | 10-1 | 10-7 | 11-0 | 11-6 | 12-0 | 12-5 | 12-10 |
| 550.00 | 9-5 | 9-11 | 10-6 | 11-1 | 11-7 | 12-1 | 12-8 | 13-2 | 13-7 | 14-1 |
| 575.00 | 10-3 | 10-11 | 11-6 | 12-1 | 12-8 | 13-3 | 13-10 | 14-4 | 14-11 | 15-5 |
| 600.00 | 11-2 | 11-10 | 12-6 | 13-2 | 13-10 | 14-5 | 15-0 | 15-8 | 16-3 | 16-9 |
| 625.00 | 12-1 | 12-10 | 13-7 | 14-3 | 15-0 | 15-8 | 16-4 | 16-11 | 17-7 | 18-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 1.91 | 985 | 1.88 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 1.13 | 306 | 1.01 | 343 |
| 30 | 0 | 0 | 0 | 0.277 | 1.28 | 272 | 1.15 | 301 |
| 40 | 0 | 0 | 0 | 0.277 | 1.41 | 246 | 1.29 | 269 |
| 50 | 0 | 0 | 0 | 0.277 | 1.54 | 226 | 1.42 | 244 |
| 60 | 0 | 0 | 0 | 0.277 | 1.65 | 210 | 1.54 | 225 |
| 70 | 0 | 0 | 0 | 0.277 | 1.77 | 196 | 1.66 | 209 |
| 80 | 0 | 0 | 0 | 0.277 | 1.86 | 187 | 1.76 | 196 |
| 90 | 0 | 0 | 0 | 0.277 | 1.92 | 180 | 1.87 | 186 |
| 100 | 0 | 0 | 0 | 0.277 | 1.98 | 175 | 1.96 | 176 |
| 110 | 0 | 0 | 0 | 0.277 | 2.04 | 170 | 2.03 | 171 |
| 120 | 0 | 0 | 0 | 0.277 | 2.1 | 165 | 2.09 | 166 |
| 130 | 0 | 0 | 0 | 0.277 | 2.16 | 160 | 2.14 | 162 |
| 167 | 0 | 0 | 0 | 0.277 | 2.37 | 146 | 2.35 | 148 |
| 212 | 0 | 0 | 0 | 0.277 | 2.6 | 133 | 2.58 | 134 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 7.59 | 996 | 7.56 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 6.88 | 202 | 6.76 | 206 |
| 30 | 0 | 0 | 0 | 0.277 | 6.99 | 199 | 6.89 | 202 |
| 40 | 0 | 0 | 0 | 0.277 | 7.11 | 196 | 7 | 199 |
| 50 | 0 | 0 | 0 | 0.277 | 7.22 | 193 | 7.12 | 196 |
| 60 | 0 | 0 | 0 | 0.277 | 7.33 | 190 | 7.23 | 193 |
| 70 | 0 | 0 | 0 | 0.277 | 7.44 | 187 | 7.33 | 190 |
| 80 | 0 | 0 | 0 | 0.277 | 7.53 | 185 | 7.44 | 187 |
| 90 | 0 | 0 | 0 | 0.277 | 7.6 | 183 | 7.55 | 185 |
| 100 | 0 | 0 | 0 | 0.277 | 7.67 | 182 | 7.65 | 182 |
| 110 | 0 | 0 | 0 | 0.277 | 7.74 | 180 | 7.72 | 180 |
| 120 | 0 | 0 | 0 | 0.277 | 7.81 | 178 | 7.79 | 179 |
| 130 | 0 | 0 | 0 | 0.277 | 7.88 | 177 | 7.86 | 177 |
| 167 | 0 | 0 | 0 | 0.277 | 8.12 | 172 | 8.1 | 172 |
| 212 | 0 | 0 | 0 | 0.277 | 8.41 | 166 | 8.39 | 166 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 17.17 | 998 | 17.14 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 16.47 | 192 | 16.35 | 193 |
| 30 | 0 | 0 | 0 | 0.277 | 16.58 | 190 | 16.48 | 191 |
| 40 | 0 | 0 | 0 | 0.277 | 16.69 | 189 | 16.59 | 190 |
| 50 | 0 | 0 | 0 | 0.277 | 16.8 | 188 | 16.7 | 189 |
| 60 | 0 | 0 | 0 | 0.277 | 16.91 | 187 | 16.8 | 188 |
| 70 | 0 | 0 | 0 | 0.277 | 17.01 | 186 | 16.91 | 187 |
| 80 | 0 | 0 | 0 | 0.277 | 17.11 | 185 | 17.02 | 185 |
| 90 | 0 | 0 | 0 | 0.277 | 17.18 | 184 | 17.12 | 184 |
| 100 | 0 | 0 | 0 | 0.277 | 17.25 | 183 | 17.23 | 183 |
| 110 | 0 | 0 | 0 | 0.277 | 17.32 | 182 | 17.3 | 183 |
| 120 | 0 | 0 | 0 | 0.277 | 17.39 | 182 | 17.37 | 182 |
| 130 | 0 | 0 | 0 | 0.277 | 17.46 | 181 | 17.44 | 181 |
| 167 | 0 | 0 | 0 | 0.277 | 17.72 | 178 | 17.7 | 179 |
| 212 | 0 | 0 | 0 | 0.277 | 18.02 | 175 | 18 | 176 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 30.82 | 999 | 30.79 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 30.12 | 188 | 30.01 | 189 |
| 30 | 0 | 0 | 0 | 0.277 | 30.23 | 187 | 30.13 | 188 |
| 40 | 0 | 0 | 0 | 0.277 | 30.34 | 187 | 30.24 | 187 |
| 50 | 0 | 0 | 0 | 0.277 | 30.45 | 186 | 30.35 | 187 |
| 60 | 0 | 0 | 0 | 0.277 | 30.55 | 186 | 30.45 | 186 |
| 70 | 0 | 0 | 0 | 0.277 | 30.66 | 185 | 30.56 | 186 |
| 80 | 0 | 0 | 0 | 0.277 | 30.76 | 184 | 30.67 | 185 |
| 90 | 0 | 0 | 0 | 0.277 | 30.83 | 184 | 30.77 | 184 |
| 100 | 0 | 0 | 0 | 0.277 | 30.9 | 184 | 30.88 | 184 |
| 110 | 0 | 0 | 0 | 0.277 | 30.97 | 183 | 30.95 | 183 |
| 120 | 0 | 0 | 0 | 0.277 | 31.04 | 183 | 31.02 | 183 |
| 130 | 0 | 0 | 0 | 0.277 | 31.11 | 182 | 31.09 | 182 |
| 167 | 0 | 0 | 0 | 0.277 | 31.37 | 181 | 31.35 | 181 |
| 212 | 0 | 0 | 0 | 0.277 | 31.69 | 179 | 31.67 | 179 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 48.81 | 999 | 48.78 | 1000* |
| 20 | 0 | 0 | 0 | 0.277 | 48.12 | 187 | 48.01 | 187 |
| 30 | 0 | 0 | 0 | 0.277 | 48.23 | 186 | 48.13 | 187 |
| 40 | 0 | 0 | 0 | 0.277 | 48.34 | 186 | 48.24 | 186 |
| 50 | 0 | 0 | 0 | 0.277 | 48.44 | 185 | 48.35 | 186 |
| 60 | 0 | 0 | 0 | 0.277 | 48.55 | 185 | 48.45 | 185 |
| 70 | 0 | 0 | 0 | 0.277 | 48.66 | 185 | 48.56 | 185 |
| 80 | 0 | 0 | 0 | 0.277 | 48.75 | 184 | 48.66 | 185 |
| 90 | 0 | 0 | 0 | 0.277 | 48.83 | 184 | 48.77 | 184 |
| 100 | 0 | 0 | 0 | 0.277 | 48.9 | 184 | 48.87 | 184 |
| 110 | 0 | 0 | 0 | 0.277 | 48.97 | 184 | 48.95 | 184 |
| 120 | 0 | 0 | 0 | 0.277 | 49.04 | 183 | 49.02 | 183 |
| 130 | 0 | 0 | 0 | 0.277 | 49.11 | 183 | 49.09 | 183 |
| 167 | 0 | 0 | 0 | 0.277 | 49.37 | 182 | 49.35 | 182 |
| 212 | 0 | 0 | 0 | 0.277 | 49.69 | 181 | 49.67 | 181 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-0 |
| 125.00 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 |
| 150.00 | 2-3 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 |
| 175.00 | 3-1 | 3-6 | 3-11 | 4-4 | 4-9 | 5-1 | 5-5 | 5-9 | 6-0 | 6-3 |
| 200.00 | 4-0 | 4-7 | 5-2 | 5-8 | 6-2 | 6-8 | 7-1 | 7-6 | 7-10 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 |
| 100.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 125.00 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 |
| 150.00 | 2-7 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-7 |
| 175.00 | 3-6 | 3-11 | 4-4 | 4-8 | 5-1 | 5-5 | 5-8 | 5-11 | 6-1 | 6-3 |
| 200.00 | 4-6 | 5-1 | 5-8 | 6-2 | 6-8 | 7-1 | 7-5 | 7-8 | 7-11 | 8-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 |
| 125.00 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 |
| 150.00 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 |
| 175.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 200.00 | 6-9 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 |
| 225.00 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-8 | 9-9 |
| 250.00 | 10-7 | 10-9 | 10-11 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 1-11 |
| 125.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 |
| 150.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 |
| 175.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 |
| 200.00 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 |
| 225.00 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 |
| 250.00 | 10-9 | 10-11 | 11-1 | 11-3 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.102

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 |
| 175.00 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 |
| 200.00 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 |
| 225.00 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 |
| 250.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 |
| 275.00 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-5 | 14-6 | 14-6 |
| 300.00 | 16-4 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 | 17-1 | 17-3 | 17-4 |
| 325.00 | 19-2 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 |
| 350.00 | 22-3 | 22-6 | 22-7 | 22-9 | 22-11 | 23-1 | 23-2 | 23-4 | 23-6 | 23-7 |
| 375.00 | 25-7 | 25-10 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 | 26-10 | 27-0 | 27-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 |
| 175.00 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 |
| 200.00 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 |
| 225.00 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 |
| 250.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-10 | 11-11 | 12-0 | 12-0 |
| 275.00 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 |
| 300.00 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 |
| 325.00 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 |
| 350.00 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-2 | 23-4 | 23-5 | 23-6 | 23-7 |
| 375.00 | 25-9 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 | 26-10 | 26-11 | 27-0 | 27-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS



OH809.103

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 |
| 225.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 250.00 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 |
| 275.00 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 |
| 300.00 | 16-10 | 16-11 | 16-11 | 17-0 | 17-1 | 17-2 | 17-2 | 17-3 | 17-4 | 17-4 |
| 325.00 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 |
| 350.00 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 |
| 375.00 | 26-4 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 |
| 400.00 | 30-0 | 30-2 | 30-3 | 30-4 | 30-5 | 30-7 | 30-8 | 30-9 | 30-11 | 30-11 |
| 425.00 | 33-11 | 34-1 | 34-2 | 34-4 | 34-5 | 34-6 | 34-8 | 34-9 | 34-11 | 35-0 |
| 450.00 | 38-1 | 38-3 | 38-4 | 38-6 | 38-7 | 38-9 | 38-11 | 39-0 | 39-2 | 39-3 |
| 475.00 | 42-5 | 42-7 | 42-9 | 42-11 | 43-1 | 43-3 | 43-5 | 43-6 | 43-8 | 43-9 |
| 500.00 | 47-1 | 47-3 | 47-5 | 47-7 | 47-9 | 47-11 | 48-1 | 48-4 | 48-6 | 48-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 |
| 225.00 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 |
| 250.00 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 |
| 275.00 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 |
| 300.00 | 16-11 | 16-11 | 17-0 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 |
| 325.00 | 19-10 | 19-11 | 20-0 | 20-1 | 20-1 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 |
| 350.00 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 |
| 375.00 | 26-5 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-2 |
| 400.00 | 30-1 | 30-3 | 30-4 | 30-5 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 |
| 425.00 | 34-0 | 34-2 | 34-3 | 34-5 | 34-6 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 |
| 450.00 | 38-2 | 38-4 | 38-6 | 38-7 | 38-9 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 |
| 475.00 | 42-7 | 42-9 | 42-11 | 43-1 | 43-3 | 43-5 | 43-6 | 43-7 | 43-9 | 43-10 |
| 500.00 | 47-3 | 47-5 | 47-7 | 47-9 | 47-11 | 48-1 | 48-3 | 48-5 | 48-6 | 48-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-1 | 12-1 | 12-1 | 12-1 |
| 275.00 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 |
| 300.00 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-6 |
| 325.00 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-6 | 20-6 |
| 350.00 | 23-5 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 | 23-8 | 23-9 | 23-10 | 23-10 |
| 375.00 | 26-10 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 | 27-3 | 27-4 | 27-5 |
| 400.00 | 30-7 | 30-8 | 30-9 | 30-10 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 | 31-2 |
| 425.00 | 34-7 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-0 | 35-1 | 35-2 | 35-3 |
| 450.00 | 38-10 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 | 39-5 | 39-6 | 39-7 |
| 475.00 | 43-3 | 43-5 | 43-6 | 43-7 | 43-8 | 43-9 | 43-10 | 44-0 | 44-1 | 44-1 |
| 500.00 | 48-0 | 48-2 | 48-3 | 48-4 | 48-5 | 48-7 | 48-8 | 48-9 | 48-10 | 48-11 |
| 525.00 | 53-0 | 53-2 | 53-3 | 53-4 | 53-6 | 53-7 | 53-9 | 53-10 | 53-11 | 54-0 |
| 550.00 | 58-3 | 58-5 | 58-6 | 58-8 | 58-9 | 58-11 | 59-0 | 59-2 | 59-4 | 59-5 |
| 575.00 | 63-9 | 63-11 | 64-1 | 64-2 | 64-4 | 64-6 | 64-7 | 64-9 | 64-11 | 65-0 |
| 600.00 | 69-6 | 69-8 | 69-10 | 70-0 | 70-2 | 70-4 | 70-5 | 70-7 | 70-9 | 70-10 |
| 625.00 | 75-6 | 75-9 | 75-11 | 76-1 | 76-3 | 76-5 | 76-7 | 76-9 | 76-11 | 77-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-1 | 12-1 | 12-1 | 12-1 | 12-2 |
| 275.00 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 |
| 300.00 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 |
| 325.00 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-5 | 20-5 | 20-6 | 20-6 | 20-6 |
| 350.00 | 23-5 | 23-6 | 23-6 | 23-7 | 23-8 | 23-8 | 23-9 | 23-9 | 23-10 | 23-10 |
| 375.00 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 |
| 400.00 | 30-8 | 30-9 | 30-10 | 30-10 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 | 31-2 |
| 425.00 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-0 | 35-1 | 35-2 | 35-2 | 35-3 |
| 450.00 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 | 39-5 | 39-5 | 39-6 | 39-7 |
| 475.00 | 43-5 | 43-6 | 43-7 | 43-8 | 43-9 | 43-10 | 43-11 | 44-0 | 44-1 | 44-2 |
| 500.00 | 48-1 | 48-3 | 48-4 | 48-5 | 48-7 | 48-8 | 48-9 | 48-10 | 48-11 | 49-0 |
| 525.00 | 53-1 | 53-3 | 53-4 | 53-6 | 53-7 | 53-9 | 53-10 | 53-11 | 54-0 | 54-1 |
| 550.00 | 58-4 | 58-6 | 58-8 | 58-9 | 58-11 | 59-0 | 59-2 | 59-3 | 59-4 | 59-5 |
| 575.00 | 63-11 | 64-0 | 64-2 | 64-4 | 64-6 | 64-7 | 64-9 | 64-10 | 64-11 | 65-0 |
| 600.00 | 69-8 | 69-10 | 70-0 | 70-2 | 70-3 | 70-5 | 70-7 | 70-8 | 70-10 | 70-11 |
| 625.00 | 75-8 | 75-10 | 76-0 | 76-3 | 76-5 | 76-7 | 76-9 | 76-10 | 76-11 | 77-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 1.3 | 1446 | 1.25 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 0.29 | 1214 | 0.26 | 1345 |
| 30 | 0 | 0 | 0 | 0.277 | 0.35 | 999 | 0.3 | 1173 |
| 40 | 0 | 0 | 0 | 0.277 | 0.43 | 801 | 0.35 | 1002 |
| 50 | 0 | 0 | 0 | 0.277 | 0.55 | 630 | 0.41 | 838 |
| 60 | 0 | 0 | 0 | 0.277 | 0.69 | 498 | 0.51 | 686 |
| 70 | 0 | 0 | 0 | 0.277 | 0.85 | 405 | 0.62 | 555 |
| 80 | 0 | 0 | 0 | 0.277 | 1.01 | 342 | 0.76 | 454 |
| 90 | 0 | 0 | 0 | 0.277 | 1.14 | 303 | 0.91 | 379 |
| 100 | 0 | 0 | 0 | 0.277 | 1.22 | 284 | 1.06 | 326 |
| 110 | 0 | 0 | 0 | 0.277 | 1.3 | 267 | 1.21 | 287 |
| 120 | 0 | 0 | 0 | 0.277 | 1.37 | 253 | 1.33 | 260 |
| 130 | 0 | 0 | 0 | 0.277 | 1.44 | 240 | 1.41 | 246 |
| 167 | 0 | 0 | 0 | 0.277 | 1.71 | 203 | 1.67 | 207 |
| 212 | 0 | 0 | 0 | 0.277 | 2 | 174 | 1.96 | 177 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 5.03 | 1497 | 5.02 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 3.59 | 386 | 3.38 | 410 |
| 30 | 0 | 0 | 0 | 0.277 | 3.79 | 366 | 3.58 | 387 |
| 40 | 0 | 0 | 0 | 0.277 | 3.98 | 348 | 3.77 | 368 |
| 50 | 0 | 0 | 0 | 0.277 | 4.17 | 333 | 3.96 | 350 |
| 60 | 0 | 0 | 0 | 0.277 | 4.35 | 319 | 4.14 | 335 |
| 70 | 0 | 0 | 0 | 0.277 | 4.52 | 307 | 4.32 | 321 |
| 80 | 0 | 0 | 0 | 0.277 | 4.69 | 296 | 4.49 | 309 |
| 90 | 0 | 0 | 0 | 0.277 | 4.86 | 286 | 4.65 | 298 |
| 100 | 0 | 0 | 0 | 0.277 | 4.97 | 280 | 4.81 | 288 |
| 110 | 0 | 0 | 0 | 0.277 | 5.06 | 274 | 4.97 | 279 |
| 120 | 0 | 0 | 0 | 0.277 | 5.16 | 269 | 5.12 | 271 |
| 130 | 0 | 0 | 0 | 0.277 | 5.26 | 264 | 5.22 | 266 |
| 167 | 0 | 0 | 0 | 0.277 | 5.6 | 248 | 5.57 | 250 |
| 212 | 0 | 0 | 0 | 0.277 | 5.99 | 232 | 5.96 | 233 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 11.34 | 1500 | 11.34 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 9.97 | 314 | 9.79 | 320 |
| 30 | 0 | 0 | 0 | 0.277 | 10.15 | 308 | 9.96 | 314 |
| 40 | 0 | 0 | 0 | 0.277 | 10.32 | 303 | 10.14 | 309 |
| 50 | 0 | 0 | 0 | 0.277 | 10.5 | 298 | 10.31 | 304 |
| 60 | 0 | 0 | 0 | 0.277 | 10.67 | 294 | 10.48 | 299 |
| 70 | 0 | 0 | 0 | 0.277 | 10.83 | 289 | 10.64 | 294 |
| 80 | 0 | 0 | 0 | 0.277 | 11 | 285 | 10.81 | 290 |
| 90 | 0 | 0 | 0 | 0.277 | 11.16 | 281 | 10.97 | 286 |
| 100 | 0 | 0 | 0 | 0.277 | 11.28 | 278 | 11.13 | 282 |
| 110 | 0 | 0 | 0 | 0.277 | 11.38 | 275 | 11.29 | 278 |
| 120 | 0 | 0 | 0 | 0.277 | 11.48 | 273 | 11.44 | 274 |
| 130 | 0 | 0 | 0 | 0.277 | 11.58 | 271 | 11.55 | 271 |
| 167 | 0 | 0 | 0 | 0.277 | 11.95 | 262 | 11.92 | 263 |
| 212 | 0 | 0 | 0 | 0.277 | 12.39 | 253 | 12.36 | 254 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 20.25 | 1500 | 20.25 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 18.91 | 296 | 18.73 | 298 |
| 30 | 0 | 0 | 0 | 0.277 | 19.08 | 293 | 18.9 | 296 |
| 40 | 0 | 0 | 0 | 0.277 | 19.25 | 291 | 19.07 | 293 |
| 50 | 0 | 0 | 0 | 0.277 | 19.41 | 288 | 19.23 | 291 |
| 60 | 0 | 0 | 0 | 0.277 | 19.58 | 286 | 19.4 | 288 |
| 70 | 0 | 0 | 0 | 0.277 | 19.74 | 283 | 19.56 | 286 |
| 80 | 0 | 0 | 0 | 0.277 | 19.91 | 281 | 19.72 | 284 |
| 90 | 0 | 0 | 0 | 0.277 | 20.07 | 279 | 19.88 | 281 |
| 100 | 0 | 0 | 0 | 0.277 | 20.19 | 277 | 20.04 | 279 |
| 110 | 0 | 0 | 0 | 0.277 | 20.29 | 276 | 20.2 | 277 |
| 120 | 0 | 0 | 0 | 0.277 | 20.39 | 274 | 20.36 | 275 |
| 130 | 0 | 0 | 0 | 0.277 | 20.5 | 273 | 20.47 | 273 |
| 167 | 0 | 0 | 0 | 0.277 | 20.88 | 268 | 20.85 | 269 |
| 212 | 0 | 0 | 0 | 0.277 | 21.33 | 263 | 21.31 | 263 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 31.83 | 1500 | 31.83 | 1500* |
| 20 | 0 | 0 | 0 | 0.277 | 30.5 | 288 | 30.33 | 290 |
| 30 | 0 | 0 | 0 | 0.277 | 30.67 | 287 | 30.49 | 288 |
| 40 | 0 | 0 | 0 | 0.277 | 30.83 | 285 | 30.65 | 287 |
| 50 | 0 | 0 | 0 | 0.277 | 31 | 284 | 30.82 | 285 |
| 60 | 0 | 0 | 0 | 0.277 | 31.16 | 282 | 30.98 | 284 |
| 70 | 0 | 0 | 0 | 0.277 | 31.32 | 281 | 31.14 | 282 |
| 80 | 0 | 0 | 0 | 0.277 | 31.49 | 279 | 31.3 | 281 |
| 90 | 0 | 0 | 0 | 0.277 | 31.65 | 278 | 31.46 | 280 |
| 100 | 0 | 0 | 0 | 0.277 | 31.76 | 277 | 31.62 | 278 |
| 110 | 0 | 0 | 0 | 0.277 | 31.87 | 276 | 31.78 | 277 |
| 120 | 0 | 0 | 0 | 0.277 | 31.98 | 275 | 31.94 | 275 |
| 130 | 0 | 0 | 0 | 0.277 | 32.08 | 274 | 32.05 | 274 |
| 167 | 0 | 0 | 0 | 0.277 | 32.47 | 271 | 32.44 | 271 |
| 212 | 0 | 0 | 0 | 0.277 | 32.93 | 267 | 32.91 | 268 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 |
| 175.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-7 | 1-11 | 2-4 | 2-10 | 3-3 | 3-8 |
| 200.00 | 1-0 | 1-2 | 1-5 | 1-8 | 2-0 | 2-6 | 3-1 | 3-8 | 4-3 | 4-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 |
| 125.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-9 | 1-11 | 2-0 |
| 150.00 | 0-8 | 0-9 | 1-0 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-9 | 2-11 |
| 175.00 | 0-10 | 1-1 | 1-4 | 1-8 | 2-2 | 2-7 | 3-1 | 3-6 | 3-9 | 4-0 |
| 200.00 | 1-2 | 1-5 | 1-9 | 2-2 | 2-9 | 3-5 | 4-1 | 4-7 | 4-11 | 5-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 |
| 175.00 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 |
| 200.00 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 225.00 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 |
| 250.00 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 |
| 125.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 |
| 175.00 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 |
| 200.00 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 |
| 225.00 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-3 | 6-5 |
| 250.00 | 5-7 | 5-11 | 6-3 | 6-6 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 |
| 175.00 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 |
| 200.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 |
| 225.00 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 250.00 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 |
| 275.00 | 8-3 | 8-4 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 |
| 300.00 | 9-9 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-3 |
| 325.00 | 11-6 | 11-8 | 11-11 | 12-1 | 12-4 | 12-6 | 12-8 | 12-11 | 13-1 | 13-3 |
| 350.00 | 13-4 | 13-7 | 13-10 | 14-0 | 14-3 | 14-6 | 14-9 | 14-11 | 15-2 | 15-4 |
| 375.00 | 15-4 | 15-7 | 15-10 | 16-1 | 16-5 | 16-8 | 16-11 | 17-2 | 17-5 | 17-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 |
| 175.00 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-10 |
| 200.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 |
| 225.00 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 250.00 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 |
| 275.00 | 8-5 | 8-6 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 | 9-6 | 9-7 |
| 300.00 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 |
| 325.00 | 11-8 | 11-11 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-3 | 13-4 |
| 350.00 | 13-7 | 13-10 | 14-1 | 14-4 | 14-6 | 14-9 | 15-0 | 15-2 | 15-4 | 15-6 |
| 375.00 | 15-7 | 15-10 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 | 17-5 | 17-8 | 17-10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 |
| 225.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 |
| 250.00 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 |
| 275.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 |
| 300.00 | 10-6 | 10-7 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 |
| 325.00 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 |
| 350.00 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 |
| 375.00 | 16-5 | 16-7 | 16-9 | 16-11 | 17-0 | 17-2 | 17-4 | 17-6 | 17-7 | 17-9 |
| 400.00 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 | 19-11 | 20-0 | 20-2 |
| 425.00 | 21-2 | 21-4 | 21-6 | 21-9 | 21-11 | 22-1 | 22-3 | 22-5 | 22-8 | 22-10 |
| 450.00 | 23-9 | 23-11 | 24-2 | 24-4 | 24-7 | 24-9 | 25-0 | 25-2 | 25-5 | 25-7 |
| 475.00 | 26-5 | 26-8 | 26-11 | 27-2 | 27-5 | 27-7 | 27-10 | 28-1 | 28-4 | 28-6 |
| 500.00 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 | 31-1 | 31-4 | 31-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 |
| 225.00 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 |
| 250.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 |
| 275.00 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 |
| 300.00 | 10-7 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 |
| 325.00 | 12-6 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 | 13-2 | 13-3 | 13-4 | 13-5 |
| 350.00 | 14-6 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 | 15-6 |
| 375.00 | 16-7 | 16-9 | 16-11 | 17-1 | 17-2 | 17-4 | 17-6 | 17-8 | 17-9 | 17-10 |
| 400.00 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-2 | 20-3 |
| 425.00 | 21-4 | 21-7 | 21-9 | 21-11 | 22-1 | 22-4 | 22-6 | 22-8 | 22-10 | 22-11 |
| 450.00 | 23-11 | 24-2 | 24-5 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-7 | 25-8 |
| 475.00 | 26-8 | 26-11 | 27-2 | 27-5 | 27-8 | 27-11 | 28-1 | 28-4 | 28-6 | 28-8 |
| 500.00 | 29-7 | 29-10 | 30-1 | 30-5 | 30-8 | 30-11 | 31-2 | 31-5 | 31-7 | 31-9 |

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| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 |
| 275.00 | 9-2 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 |
| 300.00 | 10-11 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-5 |
| 325.00 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 |
| 350.00 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 |
| 375.00 | 17-0 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 |
| 400.00 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-11 | 20-0 | 20-1 | 20-2 | 20-4 |
| 425.00 | 21-11 | 22-0 | 22-1 | 22-3 | 22-4 | 22-6 | 22-7 | 22-8 | 22-10 | 22-11 |
| 450.00 | 24-7 | 24-8 | 24-10 | 24-11 | 25-1 | 25-2 | 25-4 | 25-5 | 25-7 | 25-9 |
| 475.00 | 27-4 | 27-6 | 27-8 | 27-10 | 27-11 | 28-1 | 28-3 | 28-5 | 28-6 | 28-8 |
| 500.00 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 | 31-6 | 31-7 | 31-9 |
| 525.00 | 33-5 | 33-8 | 33-10 | 34-0 | 34-2 | 34-4 | 34-6 | 34-8 | 34-11 | 35-1 |
| 550.00 | 36-9 | 36-11 | 37-2 | 37-4 | 37-6 | 37-9 | 37-11 | 38-1 | 38-4 | 38-6 |
| 575.00 | 40-2 | 40-5 | 40-7 | 40-10 | 41-0 | 41-3 | 41-6 | 41-8 | 41-11 | 42-1 |
| 600.00 | 43-9 | 44-0 | 44-3 | 44-6 | 44-9 | 44-11 | 45-2 | 45-5 | 45-8 | 45-10 |
| 625.00 | 47-6 | 47-9 | 48-0 | 48-3 | 48-7 | 48-10 | 49-1 | 49-4 | 49-7 | 49-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 |
| 275.00 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 |
| 300.00 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 |
| 325.00 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 | 13-4 | 13-5 | 13-5 |
| 350.00 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-6 | 15-7 |
| 375.00 | 17-1 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 |
| 400.00 | 19-6 | 19-7 | 19-8 | 19-10 | 19-11 | 20-0 | 20-1 | 20-3 | 20-3 | 20-4 |
| 425.00 | 22-0 | 22-2 | 22-3 | 22-4 | 22-6 | 22-7 | 22-9 | 22-10 | 22-11 | 23-0 |
| 450.00 | 24-8 | 24-10 | 24-11 | 25-1 | 25-3 | 25-4 | 25-6 | 25-7 | 25-8 | 25-9 |
| 475.00 | 27-6 | 27-8 | 27-10 | 28-0 | 28-1 | 28-3 | 28-5 | 28-7 | 28-8 | 28-9 |
| 500.00 | 30-6 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 | 31-6 | 31-8 | 31-9 | 31-10 |
| 525.00 | 33-8 | 33-10 | 34-0 | 34-2 | 34-4 | 34-7 | 34-9 | 34-11 | 35-0 | 35-2 |
| 550.00 | 36-11 | 37-2 | 37-4 | 37-7 | 37-9 | 37-11 | 38-2 | 38-4 | 38-6 | 38-7 |
| 575.00 | 40-5 | 40-7 | 40-10 | 41-1 | 41-3 | 41-6 | 41-9 | 41-11 | 42-1 | 42-3 |
| 600.00 | 44-0 | 44-3 | 44-6 | 44-9 | 45-0 | 45-3 | 45-5 | 45-8 | 45-10 | 46-0 |
| 625.00 | 47-9 | 48-1 | 48-4 | 48-7 | 48-10 | 49-1 | 49-4 | 49-7 | 49-9 | 49-11 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 1.04 | 1807 | 0.94 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 0.18 | 1905 | 0.16 | 2129 |
| 30 | 0 | 0 | 0 | 0.277 | 0.21 | 1673 | 0.18 | 1964 |
| 40 | 0 | 0 | 0 | 0.277 | 0.24 | 1444 | 0.19 | 1796 |
| 50 | 0 | 0 | 0 | 0.277 | 0.28 | 1219 | 0.21 | 1625 |
| 60 | 0 | 0 | 0 | 0.277 | 0.34 | 1004 | 0.24 | 1452 |
| 70 | 0 | 0 | 0 | 0.277 | 0.43 | 805 | 0.27 | 1277 |
| 80 | 0 | 0 | 0 | 0.277 | 0.55 | 633 | 0.31 | 1102 |
| 90 | 0 | 0 | 0 | 0.277 | 0.69 | 501 | 0.37 | 931 |
| 100 | 0 | 0 | 0 | 0.277 | 0.77 | 447 | 0.45 | 768 |
| 110 | 0 | 0 | 0 | 0.277 | 0.84 | 413 | 0.56 | 623 |
| 120 | 0 | 0 | 0 | 0.277 | 0.91 | 382 | 0.69 | 504 |
| 130 | 0 | 0 | 0 | 0.277 | 0.98 | 354 | 0.83 | 415 |
| 167 | 0 | 0 | 0 | 0.277 | 1.26 | 275 | 1.19 | 292 |
| 212 | 0 | 0 | 0 | 0.277 | 1.59 | 218 | 1.52 | 228 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 3.77 | 1996 | 3.76 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 1.47 | 942 | 1.26 | 1099 |
| 30 | 0 | 0 | 0 | 0.277 | 1.7 | 813 | 1.43 | 968 |
| 40 | 0 | 0 | 0 | 0.277 | 1.95 | 709 | 1.63 | 851 |
| 50 | 0 | 0 | 0 | 0.277 | 2.21 | 627 | 1.84 | 751 |
| 60 | 0 | 0 | 0 | 0.277 | 2.46 | 563 | 2.07 | 668 |
| 70 | 0 | 0 | 0 | 0.277 | 2.71 | 512 | 2.31 | 600 |
| 80 | 0 | 0 | 0 | 0.277 | 2.95 | 470 | 2.55 | 544 |
| 90 | 0 | 0 | 0 | 0.277 | 3.17 | 437 | 2.78 | 499 |
| 100 | 0 | 0 | 0 | 0.277 | 3.39 | 409 | 3 | 462 |
| 110 | 0 | 0 | 0 | 0.277 | 3.55 | 391 | 3.22 | 431 |
| 120 | 0 | 0 | 0 | 0.277 | 3.66 | 379 | 3.43 | 405 |
| 130 | 0 | 0 | 0 | 0.277 | 3.78 | 367 | 3.63 | 382 |
| 167 | 0 | 0 | 0 | 0.277 | 4.19 | 331 | 4.14 | 335 |
| 212 | 0 | 0 | 0 | 0.277 | 4.67 | 297 | 4.62 | 301 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 8.48 | 2000 | 8.48 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 6.17 | 506 | 5.76 | 542 |
| 30 | 0 | 0 | 0 | 0.277 | 6.43 | 485 | 6.03 | 518 |
| 40 | 0 | 0 | 0 | 0.277 | 6.69 | 467 | 6.29 | 497 |
| 50 | 0 | 0 | 0 | 0.277 | 6.94 | 450 | 6.54 | 478 |
| 60 | 0 | 0 | 0 | 0.277 | 7.18 | 435 | 6.78 | 460 |
| 70 | 0 | 0 | 0 | 0.277 | 7.42 | 421 | 7.02 | 445 |
| 80 | 0 | 0 | 0 | 0.277 | 7.65 | 408 | 7.25 | 431 |
| 90 | 0 | 0 | 0 | 0.277 | 7.87 | 397 | 7.48 | 418 |
| 100 | 0 | 0 | 0 | 0.277 | 8.09 | 386 | 7.7 | 406 |
| 110 | 0 | 0 | 0 | 0.277 | 8.23 | 380 | 7.92 | 394 |
| 120 | 0 | 0 | 0 | 0.277 | 8.36 | 374 | 8.13 | 384 |
| 130 | 0 | 0 | 0 | 0.277 | 8.49 | 368 | 8.34 | 375 |
| 167 | 0 | 0 | 0 | 0.277 | 8.96 | 349 | 8.91 | 351 |
| 212 | 0 | 0 | 0 | 0.277 | 9.51 | 329 | 9.46 | 331 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 15.12 | 2000 | 15.12 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 12.89 | 432 | 12.51 | 445 |
| 30 | 0 | 0 | 0 | 0.277 | 13.13 | 424 | 12.75 | 436 |
| 40 | 0 | 0 | 0 | 0.277 | 13.37 | 416 | 12.98 | 428 |
| 50 | 0 | 0 | 0 | 0.277 | 13.6 | 409 | 13.22 | 421 |
| 60 | 0 | 0 | 0 | 0.277 | 13.84 | 402 | 13.45 | 414 |
| 70 | 0 | 0 | 0 | 0.277 | 14.06 | 396 | 13.68 | 407 |
| 80 | 0 | 0 | 0 | 0.277 | 14.29 | 390 | 13.9 | 400 |
| 90 | 0 | 0 | 0 | 0.277 | 14.51 | 384 | 14.12 | 394 |
| 100 | 0 | 0 | 0 | 0.277 | 14.72 | 378 | 14.34 | 388 |
| 110 | 0 | 0 | 0 | 0.277 | 14.86 | 375 | 14.55 | 383 |
| 120 | 0 | 0 | 0 | 0.277 | 15 | 372 | 14.77 | 377 |
| 130 | 0 | 0 | 0 | 0.277 | 15.13 | 368 | 14.98 | 372 |
| 167 | 0 | 0 | 0 | 0.277 | 15.63 | 357 | 15.57 | 358 |
| 212 | 0 | 0 | 0 | 0.277 | 16.21 | 344 | 16.16 | 345 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 23.71 | 2000 | 23.71 | 2000* |
| 20 | 0 | 0 | 0 | 0.277 | 21.51 | 405 | 21.14 | 412 |
| 30 | 0 | 0 | 0 | 0.277 | 21.75 | 401 | 21.37 | 408 |
| 40 | 0 | 0 | 0 | 0.277 | 21.98 | 397 | 21.6 | 404 |
| 50 | 0 | 0 | 0 | 0.277 | 22.2 | 393 | 21.82 | 400 |
| 60 | 0 | 0 | 0 | 0.277 | 22.43 | 389 | 22.05 | 396 |
| 70 | 0 | 0 | 0 | 0.277 | 22.65 | 385 | 22.27 | 392 |
| 80 | 0 | 0 | 0 | 0.277 | 22.87 | 382 | 22.49 | 388 |
| 90 | 0 | 0 | 0 | 0.277 | 23.09 | 378 | 22.71 | 384 |
| 100 | 0 | 0 | 0 | 0.277 | 23.3 | 375 | 22.92 | 381 |
| 110 | 0 | 0 | 0 | 0.277 | 23.44 | 373 | 23.14 | 377 |
| 120 | 0 | 0 | 0 | 0.277 | 23.58 | 370 | 23.35 | 374 |
| 130 | 0 | 0 | 0 | 0.277 | 23.71 | 368 | 23.56 | 371 |
| 167 | 0 | 0 | 0 | 0.277 | 24.22 | 361 | 24.17 | 362 |
| 212 | 0 | 0 | 0 | 0.277 | 24.82 | 352 | 24.77 | 353 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-10 | 2-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-1 | 1-3 | 1-4 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 1-0 | 1-3 | 1-7 | 1-9 | 1-11 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-1 | 1-4 | 1-8 | 2-1 | 2-4 | 2-7 |
| 200.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-9 | 3-1 | 3-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 |
| 175.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 |
| 200.00 | 1-3 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 |
| 225.00 | 1-7 | 1-10 | 2-1 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 |
| 250.00 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-7 | 4-0 | 4-4 | 4-8 | 5-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 175.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 200.00 | 1-6 | 1-8 | 1-11 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-7 |
| 225.00 | 1-10 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 | 3-9 | 4-0 | 4-4 | 4-6 |
| 250.00 | 2-4 | 2-8 | 3-1 | 3-5 | 3-10 | 4-3 | 4-7 | 5-0 | 5-4 | 5-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.118

Stringing Sag Table Using Initial Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 |
| 175.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 |
| 200.00 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 |
| 225.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 |
| 250.00 | 4-0 | 4-2 | 4-4 | 4-6 | 4-9 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 |
| 275.00 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-6 | 6-8 |
| 300.00 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 |
| 325.00 | 6-9 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 | 8-6 | 8-9 | 9-1 | 9-4 |
| 350.00 | 7-10 | 8-2 | 8-7 | 8-11 | 9-3 | 9-7 | 9-11 | 10-2 | 10-6 | 10-9 |
| 375.00 | 9-0 | 9-5 | 9-10 | 10-3 | 10-7 | 11-0 | 11-4 | 11-8 | 12-1 | 12-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 |
| 175.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200.00 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 225.00 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 |
| 250.00 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 |
| 275.00 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-10 | 6-11 |
| 300.00 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-3 |
| 325.00 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 9-0 | 9-3 | 9-6 | 9-8 |
| 350.00 | 8-5 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-9 | 11-0 | 11-3 |
| 375.00 | 9-8 | 10-1 | 10-5 | 10-10 | 11-3 | 11-7 | 11-11 | 12-4 | 12-8 | 12-10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 |
| 225.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 |
| 250.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 275.00 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 300.00 | 7-0 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 |
| 325.00 | 8-3 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-7 |
| 350.00 | 9-7 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 |
| 375.00 | 11-0 | 11-2 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-9 |
| 400.00 | 12-6 | 12-9 | 13-0 | 13-3 | 13-5 | 13-8 | 13-11 | 14-1 | 14-4 | 14-7 |
| 425.00 | 14-1 | 14-5 | 14-8 | 14-11 | 15-2 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 |
| 450.00 | 15-10 | 16-2 | 16-5 | 16-9 | 17-0 | 17-4 | 17-7 | 17-11 | 18-2 | 18-5 |
| 475.00 | 17-8 | 18-0 | 18-4 | 18-8 | 19-0 | 19-4 | 19-7 | 19-11 | 20-3 | 20-6 |
| 500.00 | 19-7 | 19-11 | 20-4 | 20-8 | 21-0 | 21-5 | 21-9 | 22-1 | 22-5 | 22-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 |
| 225.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 |
| 250.00 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 275.00 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 |
| 300.00 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 |
| 325.00 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 |
| 350.00 | 9-10 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-4 |
| 375.00 | 11-4 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 | 13-1 |
| 400.00 | 12-11 | 13-2 | 13-4 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 | 14-9 | 14-10 |
| 425.00 | 14-7 | 14-10 | 15-1 | 15-4 | 15-7 | 15-11 | 16-2 | 16-5 | 16-7 | 16-9 |
| 450.00 | 16-4 | 16-8 | 16-11 | 17-3 | 17-6 | 17-10 | 18-1 | 18-4 | 18-8 | 18-10 |
| 475.00 | 18-2 | 18-6 | 18-10 | 19-2 | 19-6 | 19-10 | 20-2 | 20-6 | 20-9 | 21-0 |
| 500.00 | 20-2 | 20-6 | 20-11 | 21-3 | 21-8 | 22-0 | 22-4 | 22-8 | 23-0 | 23-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 |
| 275.00 | 6-5 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 |
| 300.00 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 |
| 325.00 | 8-11 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 |
| 350.00 | 10-4 | 10-6 | 10-7 | 10-8 | 10-9 | 10-11 | 11-0 | 11-1 | 11-3 | 11-4 |
| 375.00 | 11-11 | 12-0 | 12-2 | 12-3 | 12-5 | 12-6 | 12-8 | 12-9 | 12-11 | 13-0 |
| 400.00 | 13-6 | 13-8 | 13-10 | 13-11 | 14-1 | 14-3 | 14-5 | 14-6 | 14-8 | 14-10 |
| 425.00 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 | 16-8 |
| 450.00 | 17-1 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-5 | 18-7 | 18-9 |
| 475.00 | 19-1 | 19-3 | 19-6 | 19-8 | 19-11 | 20-1 | 20-3 | 20-6 | 20-8 | 20-10 |
| 500.00 | 21-2 | 21-4 | 21-7 | 21-10 | 22-1 | 22-3 | 22-6 | 22-8 | 22-11 | 23-2 |
| 525.00 | 23-4 | 23-7 | 23-10 | 24-1 | 24-4 | 24-7 | 24-10 | 25-0 | 25-3 | 25-6 |
| 550.00 | 25-7 | 25-10 | 26-2 | 26-5 | 26-8 | 27-0 | 27-3 | 27-6 | 27-9 | 28-0 |
| 575.00 | 28-0 | 28-3 | 28-7 | 28-11 | 29-2 | 29-6 | 29-9 | 30-1 | 30-4 | 30-8 |
| 600.00 | 30-6 | 30-10 | 31-2 | 31-6 | 31-9 | 32-1 | 32-5 | 32-9 | 33-1 | 33-4 |
| 625.00 | 33-1 | 33-5 | 33-10 | 34-2 | 34-6 | 34-10 | 35-2 | 35-6 | 35-10 | 36-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500

| Temp F > | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 |
| 275.00 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 |
| 300.00 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 |
| 325.00 | 9-1 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 |
| 350.00 | 10-6 | 10-8 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 |
| 375.00 | 12-1 | 12-3 | 12-4 | 12-6 | 12-7 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 |
| 400.00 | 13-9 | 13-11 | 14-1 | 14-2 | 14-4 | 14-6 | 14-7 | 14-9 | 14-11 | 15-0 |
| 425.00 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 | 16-6 | 16-8 | 16-10 | 16-11 |
| 450.00 | 17-5 | 17-7 | 17-9 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 |
| 475.00 | 19-5 | 19-7 | 19-10 | 20-0 | 20-3 | 20-5 | 20-8 | 20-10 | 21-0 | 21-2 |
| 500.00 | 21-6 | 21-9 | 22-0 | 22-2 | 22-5 | 22-8 | 22-10 | 23-1 | 23-4 | 23-5 |
| 525.00 | 23-9 | 24-0 | 24-3 | 24-6 | 24-9 | 25-0 | 25-3 | 25-6 | 25-8 | 25-10 |
| 550.00 | 26-1 | 26-4 | 26-7 | 26-11 | 27-2 | 27-5 | 27-8 | 27-11 | 28-2 | 28-5 |
| 575.00 | 28-6 | 28-9 | 29-1 | 29-5 | 29-8 | 30-0 | 30-3 | 30-7 | 30-10 | 31-0 |
| 600.00 | 31-0 | 31-4 | 31-8 | 32-0 | 32-4 | 32-8 | 33-0 | 33-3 | 33-7 | 33-10 |
| 625.00 | 33-8 | 34-0 | 34-5 | 34-9 | 35-1 | 35-5 | 35-10 | 36-2 | 36-6 | 36-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 0.91 | 2069 | 0.78 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 0.15 | 2311 | 0.13 | 2627 |
| 30 | 0 | 0 | 0 | 0.277 | 0.17 | 2076 | 0.14 | 2471 |
| 40 | 0 | 0 | 0 | 0.277 | 0.19 | 1843 | 0.15 | 2312 |
| 50 | 0 | 0 | 0 | 0.277 | 0.21 | 1611 | 0.16 | 2149 |
| 60 | 0 | 0 | 0 | 0.277 | 0.25 | 1383 | 0.17 | 1982 |
| 70 | 0 | 0 | 0 | 0.277 | 0.3 | 1160 | 0.19 | 1813 |
| 80 | 0 | 0 | 0 | 0.277 | 0.37 | 948 | 0.21 | 1640 |
| 90 | 0 | 0 | 0 | 0.277 | 0.46 | 755 | 0.24 | 1464 |
| 100 | 0 | 0 | 0 | 0.277 | 0.56 | 613 | 0.27 | 1288 |
| 110 | 0 | 0 | 0 | 0.277 | 0.61 | 568 | 0.31 | 1111 |
| 120 | 0 | 0 | 0 | 0.277 | 0.66 | 525 | 0.37 | 937 |
| 130 | 0 | 0 | 0 | 0.277 | 0.71 | 485 | 0.45 | 772 |
| 167 | 0 | 0 | 0 | 0.277 | 0.96 | 361 | 0.87 | 399 |
| 212 | 0 | 0 | 0 | 0.277 | 1.3 | 267 | 1.19 | 291 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 3.2 | 2350 | 3.14 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 0.83 | 1661 | 0.73 | 1896 |
| 30 | 0 | 0 | 0 | 0.277 | 0.95 | 1454 | 0.8 | 1736 |
| 40 | 0 | 0 | 0 | 0.277 | 1.1 | 1261 | 0.88 | 1576 |
| 50 | 0 | 0 | 0 | 0.277 | 1.28 | 1085 | 0.98 | 1418 |
| 60 | 0 | 0 | 0 | 0.277 | 1.49 | 932 | 1.1 | 1265 |
| 70 | 0 | 0 | 0 | 0.277 | 1.72 | 805 | 1.24 | 1118 |
| 80 | 0 | 0 | 0 | 0.277 | 1.97 | 702 | 1.41 | 983 |
| 90 | 0 | 0 | 0 | 0.277 | 2.23 | 622 | 1.61 | 863 |
| 100 | 0 | 0 | 0 | 0.277 | 2.48 | 559 | 1.82 | 760 |
| 110 | 0 | 0 | 0 | 0.277 | 2.69 | 514 | 2.05 | 674 |
| 120 | 0 | 0 | 0 | 0.277 | 2.81 | 492 | 2.29 | 604 |
| 130 | 0 | 0 | 0 | 0.277 | 2.94 | 472 | 2.53 | 548 |
| 167 | 0 | 0 | 0 | 0.277 | 3.38 | 410 | 3.29 | 421 |
| 212 | 0 | 0 | 0 | 0.277 | 3.9 | 355 | 3.81 | 364 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 7.06 | 2400 | 7.06 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 3.82 | 816 | 3.25 | 960 |
| 30 | 0 | 0 | 0 | 0.277 | 4.15 | 751 | 3.55 | 879 |
| 40 | 0 | 0 | 0 | 0.277 | 4.48 | 696 | 3.85 | 810 |
| 50 | 0 | 0 | 0 | 0.277 | 4.8 | 650 | 4.16 | 750 |
| 60 | 0 | 0 | 0 | 0.277 | 5.11 | 611 | 4.46 | 699 |
| 70 | 0 | 0 | 0 | 0.277 | 5.4 | 577 | 4.76 | 655 |
| 80 | 0 | 0 | 0 | 0.277 | 5.69 | 548 | 5.05 | 617 |
| 90 | 0 | 0 | 0 | 0.277 | 5.97 | 523 | 5.34 | 584 |
| 100 | 0 | 0 | 0 | 0.277 | 6.24 | 500 | 5.62 | 555 |
| 110 | 0 | 0 | 0 | 0.277 | 6.49 | 481 | 5.89 | 530 |
| 120 | 0 | 0 | 0 | 0.277 | 6.64 | 470 | 6.15 | 507 |
| 130 | 0 | 0 | 0 | 0.277 | 6.79 | 460 | 6.41 | 487 |
| 167 | 0 | 0 | 0 | 0.277 | 7.33 | 426 | 7.25 | 431 |
| 212 | 0 | 0 | 0 | 0.277 | 7.95 | 393 | 7.87 | 397 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 12.58 | 2400 | 12.58 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 9.44 | 588 | 8.79 | 631 |
| 30 | 0 | 0 | 0 | 0.277 | 9.76 | 569 | 9.1 | 610 |
| 40 | 0 | 0 | 0 | 0.277 | 10.06 | 552 | 9.41 | 590 |
| 50 | 0 | 0 | 0 | 0.277 | 10.36 | 536 | 9.71 | 572 |
| 60 | 0 | 0 | 0 | 0.277 | 10.65 | 522 | 10.01 | 555 |
| 70 | 0 | 0 | 0 | 0.277 | 10.93 | 508 | 10.3 | 540 |
| 80 | 0 | 0 | 0 | 0.277 | 11.21 | 496 | 10.58 | 525 |
| 90 | 0 | 0 | 0 | 0.277 | 11.48 | 484 | 10.86 | 512 |
| 100 | 0 | 0 | 0 | 0.277 | 11.75 | 473 | 11.13 | 499 |
| 110 | 0 | 0 | 0 | 0.277 | 11.97 | 465 | 11.39 | 488 |
| 120 | 0 | 0 | 0 | 0.277 | 12.13 | 458 | 11.66 | 477 |
| 130 | 0 | 0 | 0 | 0.277 | 12.29 | 453 | 11.91 | 467 |
| 167 | 0 | 0 | 0 | 0.277 | 12.86 | 432 | 12.78 | 435 |
| 212 | 0 | 0 | 0 | 0.277 | 13.54 | 411 | 13.46 | 414 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.504 | 19.7 | 2400 | 19.7 | 2400* |
| 20 | 0 | 0 | 0 | 0.277 | 16.65 | 522 | 16.02 | 542 |
| 30 | 0 | 0 | 0 | 0.277 | 16.94 | 513 | 16.32 | 533 |
| 40 | 0 | 0 | 0 | 0.277 | 17.23 | 505 | 16.6 | 524 |
| 50 | 0 | 0 | 0 | 0.277 | 17.51 | 497 | 16.89 | 515 |
| 60 | 0 | 0 | 0 | 0.277 | 17.79 | 489 | 17.17 | 507 |
| 70 | 0 | 0 | 0 | 0.277 | 18.06 | 482 | 17.44 | 499 |
| 80 | 0 | 0 | 0 | 0.277 | 18.34 | 475 | 17.71 | 491 |
| 90 | 0 | 0 | 0 | 0.277 | 18.6 | 468 | 17.98 | 484 |
| 100 | 0 | 0 | 0 | 0.277 | 18.87 | 461 | 18.25 | 477 |
| 110 | 0 | 0 | 0 | 0.277 | 19.07 | 457 | 18.51 | 470 |
| 120 | 0 | 0 | 0 | 0.277 | 19.23 | 453 | 18.77 | 464 |
| 130 | 0 | 0 | 0 | 0.277 | 19.4 | 449 | 19.03 | 458 |
| 167 | 0 | 0 | 0 | 0.277 | 19.99 | 436 | 19.91 | 438 |
| 212 | 0 | 0 | 0 | 0.277 | 20.7 | 421 | 20.62 | 423 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 0-11 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-4 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 1-10 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-3 | 2-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-2 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-4 | 2-7 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-6 | 2-10 | 3-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 |
| 175.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-8 |
| 225.00 | 1-1 | 1-2 | 1-5 | 1-7 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 |
| 250.00 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 | 3-1 | 3-6 | 3-11 | 4-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

OH809.126

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 175.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 200.00 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 |
| 225.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 250.00 | 2-3 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 |
| 275.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 |
| 300.00 | 3-3 | 3-7 | 3-10 | 4-2 | 4-6 | 4-9 | 5-1 | 5-4 | 5-7 | 5-11 |
| 325.00 | 3-10 | 4-2 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 |
| 350.00 | 4-5 | 4-10 | 5-3 | 5-8 | 6-1 | 6-6 | 6-11 | 7-3 | 7-8 | 8-0 |
| 375.00 | 5-1 | 5-6 | 6-0 | 6-6 | 7-0 | 7-5 | 7-11 | 8-4 | 8-9 | 9-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 |
| 200.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 |
| 225.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 250.00 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 |
| 275.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 |
| 300.00 | 3-10 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 |
| 325.00 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 |
| 350.00 | 5-2 | 5-8 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-2 | 8-6 | 8-10 |
| 375.00 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-5 | 8-11 | 9-4 | 9-9 | 10-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 |
| 225.00 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 250.00 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 |
| 275.00 | 4-2 | 4-4 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 |
| 300.00 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 |
| 325.00 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 |
| 350.00 | 6-9 | 7-0 | 7-2 | 7-5 | 7-8 | 7-11 | 8-1 | 8-4 | 8-6 | 8-9 |
| 375.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 | 10-0 |
| 400.00 | 8-9 | 9-1 | 9-5 | 9-9 | 10-0 | 10-4 | 10-7 | 10-10 | 11-2 | 11-5 |
| 425.00 | 9-11 | 10-3 | 10-8 | 11-0 | 11-4 | 11-7 | 11-11 | 12-3 | 12-7 | 12-10 |
| 450.00 | 11-2 | 11-6 | 11-11 | 12-4 | 12-8 | 13-0 | 13-5 | 13-9 | 14-1 | 14-5 |
| 475.00 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-11 | 15-4 | 15-8 | 16-1 |
| 500.00 | 13-9 | 14-3 | 14-9 | 15-2 | 15-8 | 16-1 | 16-6 | 17-0 | 17-5 | 17-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 |
| 225.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-9 |
| 250.00 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 |
| 275.00 | 4-6 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 |
| 300.00 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 |
| 325.00 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 |
| 350.00 | 7-3 | 7-6 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 9-0 | 9-2 |
| 375.00 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 | 10-6 |
| 400.00 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 | 11-9 | 12-0 |
| 425.00 | 10-8 | 11-0 | 11-4 | 11-8 | 12-0 | 12-4 | 12-8 | 13-0 | 13-3 | 13-6 |
| 450.00 | 11-11 | 12-4 | 12-9 | 13-1 | 13-6 | 13-10 | 14-2 | 14-6 | 14-11 | 15-2 |
| 475.00 | 13-4 | 13-9 | 14-2 | 14-7 | 15-0 | 15-5 | 15-10 | 16-2 | 16-7 | 16-11 |
| 500.00 | 14-9 | 15-3 | 15-9 | 16-2 | 16-8 | 17-1 | 17-6 | 17-11 | 18-4 | 18-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 |
| 275.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 300.00 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 |
| 325.00 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 |
| 350.00 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 |
| 375.00 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-5 |
| 400.00 | 10-3 | 10-5 | 10-7 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 |
| 425.00 | 11-7 | 11-9 | 12-0 | 12-2 | 12-5 | 12-7 | 12-10 | 13-0 | 13-2 | 13-4 |
| 450.00 | 13-0 | 13-3 | 13-5 | 13-8 | 13-11 | 14-1 | 14-4 | 14-7 | 14-9 | 15-0 |
| 475.00 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-8 |
| 500.00 | 16-0 | 16-4 | 16-7 | 16-11 | 17-2 | 17-5 | 17-9 | 18-0 | 18-3 | 18-6 |
| 525.00 | 17-8 | 18-0 | 18-4 | 18-7 | 18-11 | 19-3 | 19-6 | 19-10 | 20-1 | 20-5 |
| 550.00 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-1 | 22-5 |
| 575.00 | 21-2 | 21-7 | 22-0 | 22-4 | 22-9 | 23-1 | 23-5 | 23-10 | 24-2 | 24-6 |
| 600.00 | 23-1 | 23-6 | 23-11 | 24-4 | 24-9 | 25-2 | 25-6 | 25-11 | 26-4 | 26-8 |
| 625.00 | 25-1 | 25-6 | 26-0 | 26-5 | 26-10 | 27-3 | 27-8 | 28-2 | 28-7 | 28-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 |
| 275.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 |
| 300.00 | 6-0 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 325.00 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 |
| 350.00 | 8-2 | 8-4 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 |
| 375.00 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-5 | 10-7 | 10-9 |
| 400.00 | 10-8 | 10-10 | 11-0 | 11-2 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-2 |
| 425.00 | 12-0 | 12-3 | 12-5 | 12-8 | 12-10 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 |
| 450.00 | 13-6 | 13-9 | 13-11 | 14-2 | 14-5 | 14-8 | 14-10 | 15-1 | 15-3 | 15-5 |
| 475.00 | 15-0 | 15-3 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-9 | 17-0 | 17-2 |
| 500.00 | 16-8 | 16-11 | 17-3 | 17-6 | 17-9 | 18-1 | 18-4 | 18-7 | 18-10 | 19-1 |
| 525.00 | 18-4 | 18-8 | 19-0 | 19-4 | 19-7 | 19-11 | 20-3 | 20-6 | 20-10 | 21-0 |
| 550.00 | 20-2 | 20-6 | 20-10 | 21-2 | 21-6 | 21-10 | 22-2 | 22-6 | 22-10 | 23-1 |
| 575.00 | 22-0 | 22-5 | 22-10 | 23-2 | 23-6 | 23-11 | 24-3 | 24-7 | 25-0 | 25-3 |
| 600.00 | 24-0 | 24-5 | 24-10 | 25-3 | 25-8 | 26-0 | 26-5 | 26-10 | 27-2 | 27-6 |
| 625.00 | 26-0 | 26-6 | 26-11 | 27-5 | 27-10 | 28-3 | 28-8 | 29-1 | 29-6 | 29-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2400 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 336.4 - 26/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION
- 1000 LB TENSION ---------- 810.3
- 1500 LB TENSION ---------- 810.11
- 2000 LB TENSION ---------- 810.19
- 2500 LB TENSION ---------- 810.27
- 3000 LB TENSION ---------- 810.35

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 810.43
- 1500 LB TENSION ---------- 810.51
- 2000 LB TENSION ---------- 810.59
- 2500 LB TENSION ---------- 810.67
- 3000 LB TENSION ---------- 810.75

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 810.83
- 1500 LB TENSION ---------- 810.88
- 2000 LB TENSION ---------- 810.96
- 2500 LB TENSION ---------- 810.104
- 3000 LB TENSION ---------- 810.112

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 810.120
- 1500 LB TENSION ---------- 810.128
- 2000 LB TENSION ---------- 810.136
- 2500 LB TENSION ---------- 810.144
- 3000 LB TENSION ---------- 810.152

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 810.160
- 1500 LB TENSION ---------- 810.168
- 2000 LB TENSION ---------- 810.176
- 2500 LB TENSION ---------- 810.184
- 3000 LB TENSION ---------- 810.192

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 810.200
- 1500 LB TENSION ---------- 810.208
- 2000 LB TENSION ---------- 810.216
- 2500 LB TENSION ---------- 810.224
- 3000 LB TENSION ---------- 810.232


TABLE OF CONTENTS CONTINUED ON NEXT PAGE

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised [X] | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

336.4 - 26/7 ACSR/AW TABLE OF CONTENTS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 336.4 - 26/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 810.240
1500 LB TENSION ---------- 810.248
2000 LB TENSION ---------- 810.256
2500 LB TENSION ---------- 810.264
3000 LB TENSION ---------- 810.272

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 810.280
1500 LB TENSION ---------- 810.288
2000 LB TENSION ---------- 810.296
2500 LB TENSION ---------- 810.304
3000 LB TENSION ---------- 810.312

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 810.320
1500 LB TENSION ---------- 810.328
2000 LB TENSION ---------- 810.336
2500 LB TENSION ---------- 810.344
3000 LB TENSION ---------- 810.352


TABLE OF CONTENTS

**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 0.84 | 970 | 0.81 | 1000* |
| 25 | 0 | 0 | 0 | 0.44 | 0.7 | 784 | 0.66 | 830 |
| 30 | 0 | 0 | 0 | 0.44 | 0.78 | 706 | 0.73 | 753 |
| 40 | 0 | 0 | 0 | 0.44 | 0.94 | 588 | 0.87 | 630 |
| 50 | 0 | 0 | 0 | 0.44 | 1.09 | 505 | 1.02 | 540 |
| 60 | 0 | 0 | 0 | 0.44 | 1.23 | 446 | 1.16 | 474 |
| 70 | 0 | 0 | 0 | 0.44 | 1.37 | 402 | 1.29 | 425 |
| 80 | 0 | 0 | 0 | 0.44 | 1.5 | 368 | 1.42 | 387 |
| 90 | 0 | 0 | 0 | 0.44 | 1.57 | 351 | 1.54 | 357 |
| 100 | 0 | 0 | 0 | 0.44 | 1.64 | 335 | 1.64 | 335 |
| 110 | 0 | 0 | 0 | 0.44 | 1.71 | 322 | 1.71 | 322 |
| 120 | 0 | 0 | 0 | 0.44 | 1.78 | 310 | 1.78 | 310 |
| 130 | 0 | 0 | 0 | 0.44 | 1.84 | 299 | 1.84 | 299 |
| 167 | 0 | 0 | 0 | 0.44 | 2.07 | 266 | 2.07 | 266 |
| 212 | 0 | 0 | 0 | 0.44 | 2.33 | 236 | 2.33 | 236 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 3.35 | 974 | 3.26 | 1000* |
| 25 | 0 | 0 | 0 | 0.44 | 3.16 | 698 | 3.03 | 727 |
| 30 | 0 | 0 | 0 | 0.44 | 3.26 | 675 | 3.14 | 702 |
| 40 | 0 | 0 | 0 | 0.44 | 3.48 | 634 | 3.34 | 659 |
| 50 | 0 | 0 | 0 | 0.44 | 3.68 | 599 | 3.54 | 622 |
| 60 | 0 | 0 | 0 | 0.44 | 3.88 | 569 | 3.73 | 590 |
| 70 | 0 | 0 | 0 | 0.44 | 4.06 | 542 | 3.92 | 562 |
| 80 | 0 | 0 | 0 | 0.44 | 4.25 | 519 | 4.1 | 537 |
| 90 | 0 | 0 | 0 | 0.44 | 4.42 | 499 | 4.27 | 516 |
| 100 | 0 | 0 | 0 | 0.44 | 4.54 | 486 | 4.44 | 496 |
| 110 | 0 | 0 | 0 | 0.44 | 4.64 | 475 | 4.61 | 478 |
| 120 | 0 | 0 | 0 | 0.44 | 4.75 | 465 | 4.75 | 465 |
| 130 | 0 | 0 | 0 | 0.44 | 4.85 | 455 | 4.85 | 455 |
| 167 | 0 | 0 | 0 | 0.44 | 5.21 | 424 | 5.21 | 424 |
| 212 | 0 | 0 | 0 | 0.44 | 5.62 | 393 | 5.62 | 393 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.3

TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 7.46 | 984 | 7.34 | 1000* |
| 25 | 0 | 0 | 0 | 0.44 | 7.25 | 684 | 7.1 | 699 |
| 30 | 0 | 0 | 0 | 0.44 | 7.37 | 673 | 7.21 | 688 |
| 40 | 0 | 0 | 0 | 0.44 | 7.6 | 653 | 7.43 | 667 |
| 50 | 0 | 0 | 0 | 0.44 | 7.82 | 634 | 7.65 | 649 |
| 60 | 0 | 0 | 0 | 0.44 | 8.04 | 617 | 7.87 | 631 |
| 70 | 0 | 0 | 0 | 0.44 | 8.26 | 601 | 8.08 | 615 |
| 80 | 0 | 0 | 0 | 0.44 | 8.46 | 587 | 8.28 | 600 |
| 90 | 0 | 0 | 0 | 0.44 | 8.67 | 573 | 8.48 | 585 |
| 100 | 0 | 0 | 0 | 0.44 | 8.86 | 561 | 8.68 | 572 |
| 110 | 0 | 0 | 0 | 0.44 | 8.98 | 553 | 8.87 | 560 |
| 120 | 0 | 0 | 0 | 0.44 | 9.1 | 546 | 9.06 | 548 |
| 130 | 0 | 0 | 0 | 0.44 | 9.23 | 538 | 9.23 | 538 |
| 167 | 0 | 0 | 0 | 0.44 | 9.67 | 514 | 9.67 | 514 |
| 212 | 0 | 0 | 0 | 0.44 | 10.19 | 488 | 10.19 | 488 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 13.21 | 990 | 13.08 | 1000* |
| 25 | 0 | 0 | 0 | 0.44 | 13 | 680 | 12.83 | 689 |
| 30 | 0 | 0 | 0 | 0.44 | 13.12 | 674 | 12.94 | 683 |
| 40 | 0 | 0 | 0 | 0.44 | 13.36 | 662 | 13.17 | 671 |
| 50 | 0 | 0 | 0 | 0.44 | 13.59 | 651 | 13.4 | 660 |
| 60 | 0 | 0 | 0 | 0.44 | 13.82 | 640 | 13.62 | 649 |
| 70 | 0 | 0 | 0 | 0.44 | 14.04 | 630 | 13.85 | 639 |
| 80 | 0 | 0 | 0 | 0.44 | 14.27 | 620 | 14.06 | 629 |
| 90 | 0 | 0 | 0 | 0.44 | 14.49 | 611 | 14.28 | 619 |
| 100 | 0 | 0 | 0 | 0.44 | 14.7 | 602 | 14.49 | 610 |
| 110 | 0 | 0 | 0 | 0.44 | 14.86 | 596 | 14.7 | 602 |
| 120 | 0 | 0 | 0 | 0.44 | 15 | 590 | 14.91 | 594 |
| 130 | 0 | 0 | 0 | 0.44 | 15.13 | 585 | 15.11 | 586 |
| 167 | 0 | 0 | 0 | 0.44 | 15.63 | 567 | 15.63 | 567 |
| 212 | 0 | 0 | 0 | 0.44 | 16.21 | 546 | 16.21 | 546 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 20.63 | 993 | 20.49 | 1000* |
| 25 | 0 | 0 | 0 | 0.44 | 20.41 | 678 | 20.23 | 684 |
| 30 | 0 | 0 | 0 | 0.44 | 20.53 | 674 | 20.35 | 680 |
| 40 | 0 | 0 | 0 | 0.44 | 20.77 | 667 | 20.58 | 673 |
| 50 | 0 | 0 | 0 | 0.44 | 21.01 | 659 | 20.81 | 665 |
| 60 | 0 | 0 | 0 | 0.44 | 21.25 | 652 | 21.04 | 658 |
| 70 | 0 | 0 | 0 | 0.44 | 21.48 | 645 | 21.27 | 651 |
| 80 | 0 | 0 | 0 | 0.44 | 21.71 | 638 | 21.49 | 644 |
| 90 | 0 | 0 | 0 | 0.44 | 21.94 | 632 | 21.72 | 638 |
| 100 | 0 | 0 | 0 | 0.44 | 22.16 | 625 | 21.94 | 632 |
| 110 | 0 | 0 | 0 | 0.44 | 22.35 | 620 | 22.16 | 625 |
| 120 | 0 | 0 | 0 | 0.44 | 22.49 | 616 | 22.38 | 619 |
| 130 | 0 | 0 | 0 | 0.44 | 22.64 | 612 | 22.59 | 614 |
| 167 | 0 | 0 | 0 | 0.44 | 23.17 | 599 | 23.17 | 599 |
| 212 | 0 | 0 | 0 | 0.44 | 23.79 | 583 | 23.79 | 583 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 125.00 | 0-11 | 1-2 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-8 |
| 150.00 | 1-4 | 1-8 | 2-0 | 2-4 | 2-7 | 2-11 | 3-2 | 3-6 | 3-8 | 3-10 |
| 175.00 | 1-10 | 2-3 | 2-8 | 3-1 | 3-7 | 4-0 | 4-4 | 4-9 | 5-0 | 5-3 |
| 200.00 | 2-5 | 2-11 | 3-6 | 4-1 | 4-8 | 5-2 | 5-8 | 6-2 | 6-7 | 6-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 100.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 |
| 125.00 | 1-0 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 |
| 150.00 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-4 | 3-6 | 3-8 | 3-10 |
| 175.00 | 1-11 | 2-5 | 2-10 | 3-4 | 3-9 | 4-2 | 4-7 | 4-10 | 5-0 | 5-3 |
| 200.00 | 2-6 | 3-1 | 3-9 | 4-4 | 4-11 | 5-6 | 6-0 | 6-3 | 6-7 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.6

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 125.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 150.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 |
| 175.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 |
| 200.00 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 |
| 225.00 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 |
| 250.00 | 4-7 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 |
| 150.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-7 |
| 175.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-6 | 3-7 |
| 200.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 |
| 225.00 | 3-10 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 | 5-10 |
| 250.00 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-1 | 7-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 |
| 175.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 |
| 200.00 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 225.00 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 |
| 250.00 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 |
| 275.00 | 5-10 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-5 |
| 300.00 | 7-0 | 7-3 | 7-5 | 7-8 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-10 |
| 325.00 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 9-11 | 10-2 | 10-5 |
| 350.00 | 9-6 | 9-10 | 10-1 | 10-5 | 10-9 | 11-0 | 11-3 | 11-7 | 11-10 | 12-1 |
| 375.00 | 10-11 | 11-3 | 11-7 | 12-0 | 12-4 | 12-8 | 12-11 | 13-3 | 13-7 | 13-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 |
| 175.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 |
| 200.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 225.00 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 |
| 250.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 |
| 275.00 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 |
| 300.00 | 7-2 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-10 | 9-0 |
| 325.00 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-7 |
| 350.00 | 9-9 | 10-0 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 | 11-10 | 12-1 | 12-3 |
| 375.00 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-10 | 14-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.8

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 |
| 225.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 |
| 250.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 |
| 275.00 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 |
| 300.00 | 7-2 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 |
| 325.00 | 8-5 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-8 |
| 350.00 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 |
| 375.00 | 11-2 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 |
| 400.00 | 12-9 | 12-11 | 13-2 | 13-5 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 | 14-8 |
| 425.00 | 14-4 | 14-7 | 14-10 | 15-2 | 15-5 | 15-8 | 15-11 | 16-1 | 16-4 | 16-7 |
| 450.00 | 16-1 | 16-5 | 16-8 | 17-0 | 17-3 | 17-6 | 17-10 | 18-1 | 18-4 | 18-7 |
| 475.00 | 17-11 | 18-3 | 18-7 | 18-11 | 19-3 | 19-6 | 19-10 | 20-2 | 20-5 | 20-9 |
| 500.00 | 19-10 | 20-3 | 20-7 | 20-11 | 21-4 | 21-8 | 22-0 | 22-4 | 22-8 | 23-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 |
| 225.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 |
| 250.00 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 275.00 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 |
| 300.00 | 7-3 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 |
| 325.00 | 8-6 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 |
| 350.00 | 9-10 | 10-0 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-4 |
| 375.00 | 11-4 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 |
| 400.00 | 12-11 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 | 14-8 | 14-10 |
| 425.00 | 14-7 | 14-10 | 15-1 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-9 |
| 450.00 | 16-4 | 16-7 | 16-11 | 17-2 | 17-6 | 17-9 | 18-1 | 18-4 | 18-7 | 18-10 |
| 475.00 | 18-2 | 18-6 | 18-10 | 19-2 | 19-6 | 19-10 | 20-2 | 20-5 | 20-9 | 21-0 |
| 500.00 | 20-2 | 20-6 | 20-11 | 21-3 | 21-7 | 22-0 | 22-4 | 22-8 | 23-0 | 23-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS



OH810.9

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 |
| 275.00 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 |
| 300.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 325.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 |
| 350.00 | 9-10 | 10-0 | 10-1 | 10-2 | 10-4 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 |
| 375.00 | 11-4 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 |
| 400.00 | 12-10 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 |
| 425.00 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 |
| 450.00 | 16-3 | 16-6 | 16-8 | 16-10 | 17-0 | 17-3 | 17-5 | 17-7 | 17-9 | 17-11 |
| 475.00 | 18-2 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 | 19-5 | 19-7 | 19-10 | 20-0 |
| 500.00 | 20-1 | 20-4 | 20-7 | 20-10 | 21-0 | 21-3 | 21-6 | 21-9 | 21-11 | 22-2 |
| 525.00 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-5 |
| 550.00 | 24-4 | 24-8 | 24-11 | 25-2 | 25-6 | 25-9 | 26-0 | 26-4 | 26-7 | 26-10 |
| 575.00 | 26-7 | 26-11 | 27-3 | 27-7 | 27-10 | 28-2 | 28-5 | 28-9 | 29-0 | 29-4 |
| 600.00 | 29-0 | 29-4 | 29-8 | 30-0 | 30-4 | 30-8 | 31-0 | 31-4 | 31-8 | 31-11 |
| 625.00 | 31-6 | 31-10 | 32-2 | 32-7 | 32-11 | 33-3 | 33-8 | 34-0 | 34-4 | 34-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 |
| 275.00 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 |
| 300.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-0 |
| 325.00 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 |
| 350.00 | 9-11 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 | 10-9 | 10-10 | 10-11 |
| 375.00 | 11-5 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 | 12-7 |
| 400.00 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 |
| 425.00 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 |
| 450.00 | 16-5 | 16-7 | 16-10 | 17-0 | 17-2 | 17-5 | 17-7 | 17-9 | 17-11 | 18-1 |
| 475.00 | 18-4 | 18-6 | 18-9 | 18-11 | 19-2 | 19-5 | 19-7 | 19-10 | 20-0 | 20-2 |
| 500.00 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 | 21-9 | 21-11 | 22-2 | 22-4 |
| 525.00 | 22-4 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-5 | 24-8 |
| 550.00 | 24-7 | 24-10 | 25-2 | 25-5 | 25-9 | 26-0 | 26-3 | 26-7 | 26-10 | 27-1 |
| 575.00 | 26-10 | 27-2 | 27-6 | 27-10 | 28-1 | 28-5 | 28-9 | 29-0 | 29-4 | 29-7 |
| 600.00 | 29-3 | 29-7 | 29-11 | 30-3 | 30-8 | 31-0 | 31-4 | 31-7 | 31-11 | 32-3 |
| 625.00 | 31-9 | 32-1 | 32-6 | 32-10 | 33-3 | 33-7 | 34-0 | 34-4 | 34-8 | 35-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS



OH810.10

TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 0.57 | 1431 | 0.54 | 1500* |
| 25 | 0 | 0 | 0 | 0.44 | 0.42 | 1303 | 0.39 | 1397 |
| 30 | 0 | 0 | 0 | 0.44 | 0.47 | 1164 | 0.43 | 1276 |
| 40 | 0 | 0 | 0 | 0.44 | 0.6 | 924 | 0.52 | 1050 |
| 50 | 0 | 0 | 0 | 0.44 | 0.74 | 741 | 0.64 | 857 |
| 60 | 0 | 0 | 0 | 0.44 | 0.9 | 612 | 0.78 | 707 |
| 70 | 0 | 0 | 0 | 0.44 | 1.05 | 522 | 0.92 | 595 |
| 80 | 0 | 0 | 0 | 0.44 | 1.2 | 458 | 1.07 | 515 |
| 90 | 0 | 0 | 0 | 0.44 | 1.29 | 427 | 1.21 | 455 |
| 100 | 0 | 0 | 0 | 0.44 | 1.36 | 404 | 1.34 | 411 |
| 110 | 0 | 0 | 0 | 0.44 | 1.44 | 382 | 1.44 | 382 |
| 120 | 0 | 0 | 0 | 0.44 | 1.51 | 364 | 1.51 | 364 |
| 130 | 0 | 0 | 0 | 0.44 | 1.59 | 347 | 1.59 | 347 |
| 167 | 0 | 0 | 0 | 0.44 | 1.84 | 300 | 1.84 | 300 |
| 212 | 0 | 0 | 0 | 0.44 | 2.11 | 261 | 2.11 | 261 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 2.3 | 1414 | 2.17 | 1500* |
| 25 | 0 | 0 | 0 | 0.44 | 1.98 | 1110 | 1.8 | 1224 |
| 30 | 0 | 0 | 0 | 0.44 | 2.11 | 1045 | 1.91 | 1154 |
| 40 | 0 | 0 | 0 | 0.44 | 2.36 | 934 | 2.13 | 1032 |
| 50 | 0 | 0 | 0 | 0.44 | 2.6 | 846 | 2.36 | 932 |
| 60 | 0 | 0 | 0 | 0.44 | 2.84 | 775 | 2.59 | 850 |
| 70 | 0 | 0 | 0 | 0.44 | 3.07 | 718 | 2.81 | 782 |
| 80 | 0 | 0 | 0 | 0.44 | 3.29 | 670 | 3.03 | 726 |
| 90 | 0 | 0 | 0 | 0.44 | 3.5 | 630 | 3.24 | 679 |
| 100 | 0 | 0 | 0 | 0.44 | 3.66 | 601 | 3.45 | 639 |
| 110 | 0 | 0 | 0 | 0.44 | 3.78 | 583 | 3.64 | 605 |
| 120 | 0 | 0 | 0 | 0.44 | 3.89 | 566 | 3.83 | 575 |
| 130 | 0 | 0 | 0 | 0.44 | 4.01 | 550 | 4.01 | 550 |
| 167 | 0 | 0 | 0 | 0.44 | 4.41 | 500 | 4.41 | 500 |
| 212 | 0 | 0 | 0 | 0.44 | 4.87 | 453 | 4.87 | 453 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 5.11 | 1435 | 4.89 | 1500* |
| 25 | 0 | 0 | 0 | 0.44 | 4.71 | 1051 | 4.4 | 1126 |
| 30 | 0 | 0 | 0 | 0.44 | 4.87 | 1018 | 4.55 | 1089 |
| 40 | 0 | 0 | 0 | 0.44 | 5.17 | 959 | 4.84 | 1024 |
| 50 | 0 | 0 | 0 | 0.44 | 5.46 | 907 | 5.12 | 967 |
| 60 | 0 | 0 | 0 | 0.44 | 5.75 | 863 | 5.4 | 918 |
| 70 | 0 | 0 | 0 | 0.44 | 6.02 | 824 | 5.67 | 874 |
| 80 | 0 | 0 | 0 | 0.44 | 6.29 | 789 | 5.94 | 835 |
| 90 | 0 | 0 | 0 | 0.44 | 6.55 | 758 | 6.19 | 800 |
| 100 | 0 | 0 | 0 | 0.44 | 6.8 | 730 | 6.45 | 769 |
| 110 | 0 | 0 | 0 | 0.44 | 7 | 709 | 6.69 | 741 |
| 120 | 0 | 0 | 0 | 0.44 | 7.14 | 695 | 6.93 | 716 |
| 130 | 0 | 0 | 0 | 0.44 | 7.28 | 681 | 7.16 | 693 |
| 167 | 0 | 0 | 0 | 0.44 | 7.8 | 636 | 7.8 | 636 |
| 212 | 0 | 0 | 0 | 0.44 | 8.4 | 591 | 8.4 | 591 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 8.98 | 1453 | 8.7 | 1500* |
| 25 | 0 | 0 | 0 | 0.44 | 8.55 | 1031 | 8.16 | 1080 |
| 30 | 0 | 0 | 0 | 0.44 | 8.71 | 1012 | 8.32 | 1059 |
| 40 | 0 | 0 | 0 | 0.44 | 9.04 | 975 | 8.64 | 1020 |
| 50 | 0 | 0 | 0 | 0.44 | 9.36 | 942 | 8.96 | 985 |
| 60 | 0 | 0 | 0 | 0.44 | 9.67 | 912 | 9.26 | 952 |
| 70 | 0 | 0 | 0 | 0.44 | 9.97 | 884 | 9.56 | 923 |
| 80 | 0 | 0 | 0 | 0.44 | 10.27 | 859 | 9.85 | 895 |
| 90 | 0 | 0 | 0 | 0.44 | 10.56 | 836 | 10.14 | 870 |
| 100 | 0 | 0 | 0 | 0.44 | 10.84 | 814 | 10.42 | 847 |
| 110 | 0 | 0 | 0 | 0.44 | 11.12 | 794 | 10.7 | 825 |
| 120 | 0 | 0 | 0 | 0.44 | 11.32 | 780 | 10.97 | 805 |
| 130 | 0 | 0 | 0 | 0.44 | 11.49 | 769 | 11.24 | 786 |
| 167 | 0 | 0 | 0 | 0.44 | 12.09 | 731 | 12.08 | 731 |
| 212 | 0 | 0 | 0 | 0.44 | 12.79 | 691 | 12.79 | 691 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 13.93 | 1465 | 13.61 | 1500* |
| 25 | 0 | 0 | 0 | 0.44 | 13.47 | 1023 | 13.05 | 1057 |
| 30 | 0 | 0 | 0 | 0.44 | 13.65 | 1011 | 13.22 | 1043 |
| 40 | 0 | 0 | 0 | 0.44 | 13.99 | 986 | 13.55 | 1018 |
| 50 | 0 | 0 | 0 | 0.44 | 14.32 | 963 | 13.88 | 994 |
| 60 | 0 | 0 | 0 | 0.44 | 14.65 | 942 | 14.2 | 972 |
| 70 | 0 | 0 | 0 | 0.44 | 14.97 | 922 | 14.51 | 951 |
| 80 | 0 | 0 | 0 | 0.44 | 15.29 | 903 | 14.83 | 931 |
| 90 | 0 | 0 | 0 | 0.44 | 15.6 | 885 | 15.13 | 912 |
| 100 | 0 | 0 | 0 | 0.44 | 15.91 | 868 | 15.43 | 894 |
| 110 | 0 | 0 | 0 | 0.44 | 16.21 | 852 | 15.73 | 877 |
| 120 | 0 | 0 | 0 | 0.44 | 16.49 | 838 | 16.03 | 862 |
| 130 | 0 | 0 | 0 | 0.44 | 16.67 | 829 | 16.32 | 846 |
| 167 | 0 | 0 | 0 | 0.44 | 17.33 | 797 | 17.33 | 797 |
| 212 | 0 | 0 | 0 | 0.44 | 18.12 | 763 | 18.11 | 763 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-5 |
| 125.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-5 | 1-8 | 1-11 | 2-1 | 2-3 |
| 150.00 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 | 3-0 | 3-3 |
| 175.00 | 1-1 | 1-4 | 1-7 | 2-0 | 2-5 | 2-10 | 3-3 | 3-8 | 4-1 | 4-5 |
| 200.00 | 1-5 | 1-9 | 2-1 | 2-7 | 3-1 | 3-8 | 4-3 | 4-10 | 5-4 | 5-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 125.00 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-11 | 2-0 | 2-2 | 2-3 |
| 150.00 | 0-10 | 1-1 | 1-4 | 1-8 | 2-0 | 2-4 | 2-8 | 2-11 | 3-1 | 3-3 |
| 175.00 | 1-2 | 1-5 | 1-10 | 2-3 | 2-9 | 3-3 | 3-8 | 3-11 | 4-2 | 4-5 |
| 200.00 | 1-6 | 1-11 | 2-5 | 3-0 | 3-7 | 4-3 | 4-10 | 5-2 | 5-5 | 5-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 |
| 175.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 |
| 200.00 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 |
| 225.00 | 2-2 | 2-5 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 |
| 250.00 | 2-8 | 3-0 | 3-4 | 3-8 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 175.00 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 |
| 200.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 | 3-9 |
| 225.00 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 4-9 |
| 250.00 | 2-11 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 | 5-9 | 5-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.15

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 175.00 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 200.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 |
| 225.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 |
| 250.00 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 |
| 275.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 |
| 300.00 | 4-3 | 4-7 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 |
| 325.00 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-3 | 7-7 | 7-10 |
| 350.00 | 5-9 | 6-2 | 6-7 | 7-0 | 7-4 | 7-9 | 8-1 | 8-5 | 8-9 | 9-1 |
| 375.00 | 6-8 | 7-1 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-8 | 10-1 | 10-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 |
| 175.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 |
| 225.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 |
| 250.00 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-10 |
| 275.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 |
| 300.00 | 4-7 | 4-10 | 5-2 | 5-6 | 5-9 | 6-0 | 6-3 | 6-7 | 6-10 | 7-0 |
| 325.00 | 5-4 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 |
| 350.00 | 6-2 | 6-8 | 7-0 | 7-5 | 7-10 | 8-2 | 8-7 | 8-11 | 9-3 | 9-6 |
| 375.00 | 7-1 | 7-7 | 8-1 | 8-6 | 9-0 | 9-5 | 9-10 | 10-3 | 10-7 | 10-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.16

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 |
| 225.00 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 |
| 250.00 | 3-1 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 |
| 275.00 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 |
| 300.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-5 | 5-6 | 5-8 | 5-10 | 6-0 |
| 325.00 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 |
| 350.00 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-2 |
| 375.00 | 7-0 | 7-4 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 |
| 400.00 | 8-0 | 8-4 | 8-8 | 8-11 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-8 |
| 425.00 | 9-0 | 9-5 | 9-9 | 10-1 | 10-5 | 10-10 | 11-2 | 11-5 | 11-9 | 12-1 |
| 450.00 | 10-2 | 10-6 | 10-11 | 11-4 | 11-9 | 12-1 | 12-6 | 12-10 | 13-2 | 13-7 |
| 475.00 | 11-3 | 11-9 | 12-2 | 12-8 | 13-1 | 13-6 | 13-11 | 14-4 | 14-8 | 15-1 |
| 500.00 | 12-6 | 13-0 | 13-6 | 14-0 | 14-6 | 14-11 | 15-5 | 15-10 | 16-4 | 16-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 225.00 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 250.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 |
| 275.00 | 4-0 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 |
| 300.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 |
| 325.00 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 |
| 350.00 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-4 | 8-6 |
| 375.00 | 7-4 | 7-8 | 7-11 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 |
| 400.00 | 8-5 | 8-9 | 9-0 | 9-4 | 9-8 | 10-0 | 10-3 | 10-7 | 10-10 | 11-1 |
| 425.00 | 9-6 | 9-10 | 10-2 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 | 12-7 |
| 450.00 | 10-7 | 11-0 | 11-5 | 11-10 | 12-3 | 12-8 | 13-0 | 13-4 | 13-9 | 14-1 |
| 475.00 | 11-10 | 12-4 | 12-9 | 13-2 | 13-8 | 14-1 | 14-6 | 14-11 | 15-4 | 15-8 |
| 500.00 | 13-1 | 13-7 | 14-2 | 14-8 | 15-1 | 15-7 | 16-1 | 16-6 | 16-11 | 17-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS



OH810.17

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-11 |
| 275.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 300.00 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-7 | 5-8 |
| 325.00 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-8 |
| 350.00 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-8 |
| 375.00 | 7-3 | 7-5 | 7-7 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 |
| 400.00 | 8-3 | 8-5 | 8-8 | 8-11 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-1 |
| 425.00 | 9-4 | 9-7 | 9-9 | 10-0 | 10-3 | 10-6 | 10-8 | 10-11 | 11-2 | 11-4 |
| 450.00 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-9 |
| 475.00 | 11-7 | 11-11 | 12-3 | 12-6 | 12-10 | 13-1 | 13-5 | 13-8 | 13-11 | 14-2 |
| 500.00 | 12-11 | 13-3 | 13-7 | 13-11 | 14-2 | 14-6 | 14-10 | 15-2 | 15-5 | 15-9 |
| 525.00 | 14-2 | 14-7 | 14-11 | 15-4 | 15-8 | 16-0 | 16-4 | 16-8 | 17-0 | 17-4 |
| 550.00 | 15-7 | 16-0 | 16-5 | 16-10 | 17-2 | 17-7 | 17-11 | 18-4 | 18-8 | 19-0 |
| 575.00 | 17-0 | 17-6 | 17-11 | 18-4 | 18-9 | 19-2 | 19-7 | 20-0 | 20-5 | 20-10 |
| 600.00 | 18-7 | 19-0 | 19-6 | 20-0 | 20-5 | 20-11 | 21-4 | 21-10 | 22-3 | 22-8 |
| 625.00 | 20-2 | 20-8 | 21-2 | 21-8 | 22-2 | 22-8 | 23-2 | 23-8 | 24-2 | 24-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 275.00 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 |
| 300.00 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 |
| 325.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 |
| 350.00 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 |
| 375.00 | 7-6 | 7-8 | 7-10 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 |
| 400.00 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-4 |
| 425.00 | 9-7 | 9-10 | 10-1 | 10-4 | 10-7 | 10-10 | 11-1 | 11-3 | 11-6 | 11-8 |
| 450.00 | 10-9 | 11-1 | 11-4 | 11-7 | 11-10 | 12-1 | 12-5 | 12-8 | 12-11 | 13-1 |
| 475.00 | 12-0 | 12-4 | 12-7 | 12-11 | 13-3 | 13-6 | 13-10 | 14-1 | 14-4 | 14-7 |
| 500.00 | 13-4 | 13-8 | 14-0 | 14-4 | 14-8 | 15-0 | 15-3 | 15-7 | 15-11 | 16-2 |
| 525.00 | 14-8 | 15-1 | 15-5 | 15-10 | 16-2 | 16-6 | 16-10 | 17-2 | 17-6 | 17-10 |
| 550.00 | 16-1 | 16-6 | 16-11 | 17-4 | 17-9 | 18-1 | 18-6 | 18-11 | 19-3 | 19-7 |
| 575.00 | 17-7 | 18-1 | 18-6 | 18-11 | 19-5 | 19-10 | 20-3 | 20-8 | 21-1 | 21-5 |
| 600.00 | 19-2 | 19-8 | 20-2 | 20-8 | 21-1 | 21-7 | 22-0 | 22-6 | 22-11 | 23-4 |
| 625.00 | 20-10 | 21-4 | 21-10 | 22-5 | 22-11 | 23-5 | 23-11 | 24-5 | 24-10 | 25-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 0.44 | 1868 | 0.41 | 2000* |
| 25 | 0 | 0 | 0 | 0.44 | 0.31 | 1784 | 0.28 | 1939 |
| 30 | 0 | 0 | 0 | 0.44 | 0.34 | 1623 | 0.3 | 1808 |
| 40 | 0 | 0 | 0 | 0.44 | 0.42 | 1319 | 0.36 | 1549 |
| 50 | 0 | 0 | 0 | 0.44 | 0.52 | 1051 | 0.42 | 1300 |
| 60 | 0 | 0 | 0 | 0.44 | 0.66 | 835 | 0.51 | 1070 |
| 70 | 0 | 0 | 0 | 0.44 | 0.81 | 678 | 0.63 | 873 |
| 80 | 0 | 0 | 0 | 0.44 | 0.97 | 568 | 0.77 | 718 |
| 90 | 0 | 0 | 0 | 0.44 | 1.06 | 518 | 0.91 | 603 |
| 100 | 0 | 0 | 0 | 0.44 | 1.14 | 484 | 1.06 | 520 |
| 110 | 0 | 0 | 0 | 0.44 | 1.21 | 454 | 1.2 | 459 |
| 120 | 0 | 0 | 0 | 0.44 | 1.29 | 426 | 1.29 | 426 |
| 130 | 0 | 0 | 0 | 0.44 | 1.37 | 403 | 1.37 | 403 |
| 167 | 0 | 0 | 0 | 0.44 | 1.63 | 337 | 1.63 | 337 |
| 212 | 0 | 0 | 0 | 0.44 | 1.93 | 285 | 1.93 | 285 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 1.78 | 1831 | 1.63 | 2000* |
| 25 | 0 | 0 | 0 | 0.44 | 1.4 | 1568 | 1.23 | 1793 |
| 30 | 0 | 0 | 0 | 0.44 | 1.51 | 1458 | 1.3 | 1688 |
| 40 | 0 | 0 | 0 | 0.44 | 1.74 | 1266 | 1.48 | 1491 |
| 50 | 0 | 0 | 0 | 0.44 | 1.98 | 1110 | 1.67 | 1316 |
| 60 | 0 | 0 | 0 | 0.44 | 2.23 | 986 | 1.89 | 1167 |
| 70 | 0 | 0 | 0 | 0.44 | 2.48 | 888 | 2.11 | 1042 |
| 80 | 0 | 0 | 0 | 0.44 | 2.72 | 809 | 2.34 | 940 |
| 90 | 0 | 0 | 0 | 0.44 | 2.96 | 745 | 2.57 | 856 |
| 100 | 0 | 0 | 0 | 0.44 | 3.14 | 700 | 2.8 | 787 |
| 110 | 0 | 0 | 0 | 0.44 | 3.26 | 675 | 3.02 | 730 |
| 120 | 0 | 0 | 0 | 0.44 | 3.38 | 651 | 3.23 | 682 |
| 130 | 0 | 0 | 0 | 0.44 | 3.5 | 629 | 3.43 | 641 |
| 167 | 0 | 0 | 0 | 0.44 | 3.93 | 561 | 3.92 | 562 |
| 212 | 0 | 0 | 0 | 0.44 | 4.42 | 499 | 4.42 | 499 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 3.96 | 1850 | 3.66 | 2000* |
| 25 | 0 | 0 | 0 | 0.44 | 3.41 | 1452 | 3.01 | 1647 |
| 30 | 0 | 0 | 0 | 0.44 | 3.57 | 1386 | 3.15 | 1574 |
| 40 | 0 | 0 | 0 | 0.44 | 3.9 | 1269 | 3.43 | 1443 |
| 50 | 0 | 0 | 0 | 0.44 | 4.23 | 1172 | 3.73 | 1329 |
| 60 | 0 | 0 | 0 | 0.44 | 4.55 | 1090 | 4.03 | 1230 |
| 70 | 0 | 0 | 0 | 0.44 | 4.86 | 1020 | 4.33 | 1145 |
| 80 | 0 | 0 | 0 | 0.44 | 5.16 | 961 | 4.62 | 1072 |
| 90 | 0 | 0 | 0 | 0.44 | 5.45 | 909 | 4.91 | 1009 |
| 100 | 0 | 0 | 0 | 0.44 | 5.73 | 864 | 5.2 | 954 |
| 110 | 0 | 0 | 0 | 0.44 | 5.98 | 829 | 5.48 | 905 |
| 120 | 0 | 0 | 0 | 0.44 | 6.14 | 808 | 5.75 | 863 |
| 130 | 0 | 0 | 0 | 0.44 | 6.29 | 789 | 6.01 | 825 |
| 167 | 0 | 0 | 0 | 0.44 | 6.84 | 725 | 6.83 | 726 |
| 212 | 0 | 0 | 0 | 0.44 | 7.48 | 663 | 7.47 | 664 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 6.94 | 1879 | 6.52 | 2000* |
| 25 | 0 | 0 | 0 | 0.44 | 6.28 | 1402 | 5.7 | 1545 |
| 30 | 0 | 0 | 0 | 0.44 | 6.48 | 1360 | 5.88 | 1498 |
| 40 | 0 | 0 | 0 | 0.44 | 6.86 | 1284 | 6.24 | 1412 |
| 50 | 0 | 0 | 0 | 0.44 | 7.23 | 1218 | 6.59 | 1336 |
| 60 | 0 | 0 | 0 | 0.44 | 7.6 | 1160 | 6.95 | 1268 |
| 70 | 0 | 0 | 0 | 0.44 | 7.95 | 1108 | 7.29 | 1208 |
| 80 | 0 | 0 | 0 | 0.44 | 8.3 | 1062 | 7.64 | 1154 |
| 90 | 0 | 0 | 0 | 0.44 | 8.64 | 1021 | 7.97 | 1106 |
| 100 | 0 | 0 | 0 | 0.44 | 8.96 | 984 | 8.3 | 1062 |
| 110 | 0 | 0 | 0 | 0.44 | 9.29 | 950 | 8.62 | 1023 |
| 120 | 0 | 0 | 0 | 0.44 | 9.56 | 923 | 8.94 | 987 |
| 130 | 0 | 0 | 0 | 0.44 | 9.74 | 906 | 9.25 | 954 |
| 167 | 0 | 0 | 0 | 0.44 | 10.39 | 849 | 10.33 | 854 |
| 212 | 0 | 0 | 0 | 0.44 | 11.16 | 791 | 11.15 | 792 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 10.7 | 1904 | 10.19 | 2000* |
| 25 | 0 | 0 | 0 | 0.44 | 9.99 | 1379 | 9.28 | 1484 |
| 30 | 0 | 0 | 0 | 0.44 | 10.2 | 1351 | 9.48 | 1452 |
| 40 | 0 | 0 | 0 | 0.44 | 10.61 | 1298 | 9.88 | 1394 |
| 50 | 0 | 0 | 0 | 0.44 | 11.02 | 1251 | 10.27 | 1341 |
| 60 | 0 | 0 | 0 | 0.44 | 11.41 | 1208 | 10.66 | 1292 |
| 70 | 0 | 0 | 0 | 0.44 | 11.8 | 1168 | 11.04 | 1248 |
| 80 | 0 | 0 | 0 | 0.44 | 12.18 | 1132 | 11.42 | 1207 |
| 90 | 0 | 0 | 0 | 0.44 | 12.55 | 1099 | 11.78 | 1169 |
| 100 | 0 | 0 | 0 | 0.44 | 12.91 | 1068 | 12.15 | 1135 |
| 110 | 0 | 0 | 0 | 0.44 | 13.26 | 1040 | 12.5 | 1103 |
| 120 | 0 | 0 | 0 | 0.44 | 13.61 | 1013 | 12.85 | 1073 |
| 130 | 0 | 0 | 0 | 0.44 | 13.88 | 994 | 13.19 | 1045 |
| 167 | 0 | 0 | 0 | 0.44 | 14.62 | 944 | 14.41 | 957 |
| 212 | 0 | 0 | 0 | 0.44 | 15.5 | 891 | 15.47 | 892 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 |
| 150.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-8 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-4 | 2-10 | 3-3 | 3-8 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-8 | 2-1 | 2-6 | 3-1 | 3-8 | 4-3 | 4-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-7 | 0-8 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-9 | 1-11 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-2 | 2-5 | 2-7 | 2-9 |
| 175.00 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-6 | 3-0 | 3-3 | 3-6 | 3-9 |
| 200.00 | 1-2 | 1-4 | 1-8 | 2-1 | 2-8 | 3-3 | 3-11 | 4-3 | 4-7 | 4-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 |
| 175.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 |
| 200.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-0 |
| 225.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-5 | 2-8 | 3-0 | 3-3 | 3-6 | 3-10 |
| 250.00 | 1-10 | 2-0 | 2-4 | 2-7 | 2-11 | 3-4 | 3-8 | 4-0 | 4-4 | 4-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 |
| 200.00 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-3 |
| 225.00 | 1-8 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-2 |
| 250.00 | 2-0 | 2-4 | 2-9 | 3-1 | 3-6 | 3-11 | 4-3 | 4-7 | 4-11 | 5-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS



OH810.23

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 200.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 |
| 225.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 250.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-10 |
| 275.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 |
| 300.00 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-11 | 5-2 | 5-6 |
| 325.00 | 3-4 | 3-8 | 4-0 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 |
| 350.00 | 3-11 | 4-3 | 4-8 | 5-1 | 5-6 | 5-11 | 6-4 | 6-8 | 7-1 | 7-5 |
| 375.00 | 4-6 | 4-11 | 5-4 | 5-10 | 6-4 | 6-9 | 7-3 | 7-8 | 8-1 | 8-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 175.00 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 200.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 |
| 225.00 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 |
| 250.00 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 |
| 275.00 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 |
| 300.00 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 |
| 325.00 | 3-10 | 4-2 | 4-7 | 5-0 | 5-4 | 5-8 | 6-1 | 6-5 | 6-9 | 7-0 |
| 350.00 | 4-5 | 4-10 | 5-4 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-10 | 8-2 |
| 375.00 | 5-1 | 5-7 | 6-1 | 6-7 | 7-1 | 7-7 | 8-1 | 8-6 | 9-0 | 9-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.24

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 |
| 250.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 |
| 275.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 |
| 300.00 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 |
| 325.00 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-6 | 5-8 |
| 350.00 | 4-3 | 4-6 | 4-9 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 |
| 375.00 | 4-10 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-7 |
| 400.00 | 5-6 | 5-11 | 6-3 | 6-7 | 6-11 | 7-4 | 7-8 | 8-0 | 8-4 | 8-7 |
| 425.00 | 6-3 | 6-8 | 7-0 | 7-5 | 7-10 | 8-3 | 8-7 | 9-0 | 9-4 | 9-9 |
| 450.00 | 7-0 | 7-5 | 7-11 | 8-4 | 8-10 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 |
| 475.00 | 7-9 | 8-3 | 8-10 | 9-4 | 9-10 | 10-3 | 10-9 | 11-3 | 11-8 | 12-2 |
| 500.00 | 8-8 | 9-2 | 9-9 | 10-4 | 10-10 | 11-5 | 11-11 | 12-6 | 13-0 | 13-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 |
| 250.00 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 |
| 275.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 |
| 300.00 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-3 |
| 325.00 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 |
| 350.00 | 4-8 | 5-0 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 |
| 375.00 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 |
| 400.00 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 | 8-4 | 8-8 | 9-0 | 9-3 |
| 425.00 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 | 10-6 |
| 450.00 | 7-8 | 8-2 | 8-8 | 9-2 | 9-7 | 10-1 | 10-6 | 10-11 | 11-4 | 11-9 |
| 475.00 | 8-7 | 9-2 | 9-8 | 10-2 | 10-9 | 11-3 | 11-8 | 12-2 | 12-8 | 13-1 |
| 500.00 | 9-6 | 10-1 | 10-9 | 11-4 | 11-10 | 12-5 | 13-0 | 13-6 | 14-0 | 14-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 275.00 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 |
| 300.00 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 |
| 325.00 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 |
| 350.00 | 4-5 | 4-8 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 375.00 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 |
| 400.00 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-6 | 7-9 | 8-0 |
| 425.00 | 6-7 | 6-10 | 7-2 | 7-5 | 7-8 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 |
| 450.00 | 7-4 | 7-8 | 8-0 | 8-4 | 8-8 | 8-11 | 9-3 | 9-7 | 9-10 | 10-1 |
| 475.00 | 8-2 | 8-7 | 8-11 | 9-3 | 9-7 | 10-0 | 10-4 | 10-8 | 11-0 | 11-3 |
| 500.00 | 9-1 | 9-6 | 9-11 | 10-3 | 10-8 | 11-1 | 11-5 | 11-9 | 12-2 | 12-6 |
| 525.00 | 10-0 | 10-5 | 10-11 | 11-4 | 11-9 | 12-2 | 12-7 | 13-0 | 13-5 | 13-9 |
| 550.00 | 11-0 | 11-6 | 11-11 | 12-5 | 12-11 | 13-4 | 13-10 | 14-3 | 14-8 | 15-2 |
| 575.00 | 12-0 | 12-6 | 13-1 | 13-7 | 14-1 | 14-7 | 15-1 | 15-7 | 16-1 | 16-6 |
| 600.00 | 13-1 | 13-8 | 14-3 | 14-10 | 15-4 | 15-11 | 16-5 | 17-0 | 17-6 | 18-0 |
| 625.00 | 14-2 | 14-10 | 15-5 | 16-1 | 16-8 | 17-3 | 17-10 | 18-5 | 19-0 | 19-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 |
| 275.00 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 |
| 300.00 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 |
| 325.00 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 |
| 350.00 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 |
| 375.00 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 |
| 400.00 | 6-3 | 6-6 | 6-9 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 | 8-6 |
| 425.00 | 7-1 | 7-4 | 7-8 | 7-11 | 8-3 | 8-6 | 8-10 | 9-1 | 9-4 | 9-7 |
| 450.00 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-9 |
| 475.00 | 8-10 | 9-2 | 9-7 | 9-11 | 10-4 | 10-8 | 11-0 | 11-4 | 11-8 | 12-0 |
| 500.00 | 9-9 | 10-2 | 10-7 | 11-0 | 11-5 | 11-10 | 12-2 | 12-7 | 12-11 | 13-3 |
| 525.00 | 10-9 | 11-3 | 11-8 | 12-2 | 12-7 | 13-0 | 13-5 | 13-10 | 14-3 | 14-8 |
| 550.00 | 11-10 | 12-4 | 12-10 | 13-4 | 13-10 | 14-3 | 14-9 | 15-2 | 15-7 | 16-1 |
| 575.00 | 12-11 | 13-6 | 14-0 | 14-7 | 15-1 | 15-7 | 16-1 | 16-7 | 17-1 | 17-7 |
| 600.00 | 14-1 | 14-8 | 15-3 | 15-10 | 16-5 | 17-0 | 17-6 | 18-1 | 18-7 | 19-1 |
| 625.00 | 15-3 | 15-11 | 16-7 | 17-3 | 17-10 | 18-5 | 19-0 | 19-7 | 20-2 | 20-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 0.36 | 2256 | 0.33 | 2500* |
| 25 | 0 | 0 | 0 | 0.44 | 0.25 | 2197 | 0.22 | 2461 |
| 30 | 0 | 0 | 0 | 0.44 | 0.27 | 2028 | 0.24 | 2330 |
| 40 | 0 | 0 | 0 | 0.44 | 0.32 | 1699 | 0.27 | 2067 |
| 50 | 0 | 0 | 0 | 0.44 | 0.4 | 1388 | 0.31 | 1803 |
| 60 | 0 | 0 | 0 | 0.44 | 0.5 | 1110 | 0.36 | 1543 |
| 70 | 0 | 0 | 0 | 0.44 | 0.62 | 881 | 0.43 | 1292 |
| 80 | 0 | 0 | 0 | 0.44 | 0.77 | 710 | 0.52 | 1062 |
| 90 | 0 | 0 | 0 | 0.44 | 0.87 | 636 | 0.64 | 866 |
| 100 | 0 | 0 | 0 | 0.44 | 0.93 | 589 | 0.77 | 712 |
| 110 | 0 | 0 | 0 | 0.44 | 1.01 | 547 | 0.92 | 598 |
| 120 | 0 | 0 | 0 | 0.44 | 1.08 | 509 | 1.07 | 516 |
| 130 | 0 | 0 | 0 | 0.44 | 1.16 | 476 | 1.15 | 478 |
| 167 | 0 | 0 | 0 | 0.44 | 1.43 | 384 | 1.43 | 385 |
| 212 | 0 | 0 | 0 | 0.44 | 1.75 | 315 | 1.75 | 315 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 1.46 | 2230 | 1.3 | 2500* |
| 25 | 0 | 0 | 0 | 0.44 | 1.09 | 2021 | 0.93 | 2355 |
| 30 | 0 | 0 | 0 | 0.44 | 1.17 | 1883 | 0.98 | 2237 |
| 40 | 0 | 0 | 0 | 0.44 | 1.35 | 1628 | 1.1 | 2004 |
| 50 | 0 | 0 | 0 | 0.44 | 1.56 | 1408 | 1.24 | 1781 |
| 60 | 0 | 0 | 0 | 0.44 | 1.8 | 1225 | 1.4 | 1575 |
| 70 | 0 | 0 | 0 | 0.44 | 2.04 | 1077 | 1.58 | 1389 |
| 80 | 0 | 0 | 0 | 0.44 | 2.29 | 960 | 1.79 | 1228 |
| 90 | 0 | 0 | 0 | 0.44 | 2.54 | 867 | 2.02 | 1092 |
| 100 | 0 | 0 | 0 | 0.44 | 2.74 | 805 | 2.25 | 980 |
| 110 | 0 | 0 | 0 | 0.44 | 2.86 | 771 | 2.48 | 889 |
| 120 | 0 | 0 | 0 | 0.44 | 2.97 | 740 | 2.71 | 814 |
| 130 | 0 | 0 | 0 | 0.44 | 3.09 | 712 | 2.93 | 752 |
| 167 | 0 | 0 | 0 | 0.44 | 3.53 | 623 | 3.52 | 626 |
| 212 | 0 | 0 | 0 | 0.44 | 4.05 | 545 | 4.04 | 546 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 3.26 | 2246 | 2.93 | 2500* |
| 25 | 0 | 0 | 0 | 0.44 | 2.63 | 1881 | 2.23 | 2218 |
| 30 | 0 | 0 | 0 | 0.44 | 2.78 | 1781 | 2.34 | 2119 |
| 40 | 0 | 0 | 0 | 0.44 | 3.09 | 1603 | 2.56 | 1931 |
| 50 | 0 | 0 | 0 | 0.44 | 3.41 | 1452 | 2.82 | 1759 |
| 60 | 0 | 0 | 0 | 0.44 | 3.74 | 1325 | 3.09 | 1604 |
| 70 | 0 | 0 | 0 | 0.44 | 4.06 | 1219 | 3.37 | 1468 |
| 80 | 0 | 0 | 0 | 0.44 | 4.39 | 1129 | 3.67 | 1350 |
| 90 | 0 | 0 | 0 | 0.44 | 4.7 | 1054 | 3.97 | 1248 |
| 100 | 0 | 0 | 0 | 0.44 | 5.01 | 989 | 4.27 | 1160 |
| 110 | 0 | 0 | 0 | 0.44 | 5.28 | 939 | 4.57 | 1085 |
| 120 | 0 | 0 | 0 | 0.44 | 5.44 | 912 | 4.86 | 1019 |
| 130 | 0 | 0 | 0 | 0.44 | 5.59 | 886 | 5.15 | 963 |
| 167 | 0 | 0 | 0 | 0.44 | 6.17 | 804 | 6.14 | 808 |
| 212 | 0 | 0 | 0 | 0.44 | 6.84 | 725 | 6.81 | 728 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 5.72 | 2279 | 5.21 | 2500* |
| 25 | 0 | 0 | 0 | 0.44 | 4.9 | 1798 | 4.22 | 2086 |
| 30 | 0 | 0 | 0 | 0.44 | 5.09 | 1729 | 4.38 | 2010 |
| 40 | 0 | 0 | 0 | 0.44 | 5.49 | 1604 | 4.71 | 1868 |
| 50 | 0 | 0 | 0 | 0.44 | 5.89 | 1496 | 5.06 | 1741 |
| 60 | 0 | 0 | 0 | 0.44 | 6.28 | 1403 | 5.41 | 1626 |
| 70 | 0 | 0 | 0 | 0.44 | 6.66 | 1322 | 5.77 | 1525 |
| 80 | 0 | 0 | 0 | 0.44 | 7.04 | 1251 | 6.14 | 1436 |
| 90 | 0 | 0 | 0 | 0.44 | 7.41 | 1189 | 6.5 | 1356 |
| 100 | 0 | 0 | 0 | 0.44 | 7.77 | 1134 | 6.85 | 1286 |
| 110 | 0 | 0 | 0 | 0.44 | 8.12 | 1085 | 7.2 | 1223 |
| 120 | 0 | 0 | 0 | 0.44 | 8.44 | 1045 | 7.55 | 1167 |
| 130 | 0 | 0 | 0 | 0.44 | 8.63 | 1022 | 7.89 | 1117 |
| 167 | 0 | 0 | 0 | 0.44 | 9.31 | 947 | 9.08 | 971 |
| 212 | 0 | 0 | 0 | 0.44 | 10.12 | 872 | 10.08 | 875 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 8.8 | 2314 | 8.15 | 2500* |
| 25 | 0 | 0 | 0 | 0.44 | 7.85 | 1753 | 6.94 | 1983 |
| 30 | 0 | 0 | 0 | 0.44 | 8.08 | 1703 | 7.14 | 1927 |
| 40 | 0 | 0 | 0 | 0.44 | 8.53 | 1613 | 7.55 | 1822 |
| 50 | 0 | 0 | 0 | 0.44 | 8.98 | 1533 | 7.97 | 1727 |
| 60 | 0 | 0 | 0 | 0.44 | 9.42 | 1462 | 8.38 | 1642 |
| 70 | 0 | 0 | 0 | 0.44 | 9.85 | 1398 | 8.8 | 1565 |
| 80 | 0 | 0 | 0 | 0.44 | 10.27 | 1341 | 9.21 | 1495 |
| 90 | 0 | 0 | 0 | 0.44 | 10.68 | 1289 | 9.61 | 1433 |
| 100 | 0 | 0 | 0 | 0.44 | 11.09 | 1243 | 10.01 | 1375 |
| 110 | 0 | 0 | 0 | 0.44 | 11.48 | 1200 | 10.41 | 1323 |
| 120 | 0 | 0 | 0 | 0.44 | 11.87 | 1161 | 10.8 | 1276 |
| 130 | 0 | 0 | 0 | 0.44 | 12.2 | 1130 | 11.18 | 1233 |
| 167 | 0 | 0 | 0 | 0.44 | 12.98 | 1062 | 12.53 | 1100 |
| 212 | 0 | 0 | 0 | 0.44 | 13.91 | 991 | 13.86 | 995 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-4 | 2-10 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 2-1 | 2-7 | 3-1 | 3-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 1-0 | 1-3 | 1-4 | 1-6 | 1-7 |
| 150.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 1-11 | 2-1 | 2-3 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-3 | 1-6 | 1-11 | 2-4 | 2-8 | 2-10 | 3-1 |
| 200.00 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-6 | 3-1 | 3-6 | 3-9 | 4-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.30

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 |
| 150.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-7 | 1-9 | 1-11 |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 |
| 225.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 |
| 250.00 | 1-5 | 1-6 | 1-9 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 175.00 | 0-9 | 0-11 | 1-0 | 1-2 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-2 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 2-10 |
| 225.00 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-7 |
| 250.00 | 1-7 | 1-10 | 2-1 | 2-5 | 2-10 | 3-2 | 3-7 | 4-0 | 4-3 | 4-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.31

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 175.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 |
| 200.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 225.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 250.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 |
| 275.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 |
| 300.00 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-3 | 4-7 |
| 325.00 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 |
| 350.00 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 | 5-0 | 5-5 | 5-10 | 6-3 |
| 375.00 | 3-4 | 3-8 | 4-0 | 4-5 | 4-10 | 5-3 | 5-9 | 6-2 | 6-8 | 7-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 |
| 200.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 |
| 225.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 |
| 250.00 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 |
| 275.00 | 2-1 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 |
| 300.00 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 |
| 325.00 | 2-11 | 3-3 | 3-8 | 4-0 | 4-5 | 4-9 | 5-2 | 5-6 | 5-11 | 6-2 |
| 350.00 | 3-5 | 3-9 | 4-2 | 4-8 | 5-1 | 5-6 | 6-0 | 6-5 | 6-10 | 7-2 |
| 375.00 | 3-11 | 4-4 | 4-10 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-10 | 8-3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
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| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 |
| 225.00 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 |
| 250.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 |
| 275.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 |
| 300.00 | 2-3 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 |
| 325.00 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 |
| 350.00 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-5 | 4-8 | 5-0 | 5-3 | 5-6 |
| 375.00 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-0 | 6-4 |
| 400.00 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-2 | 6-6 | 6-10 | 7-2 |
| 425.00 | 4-7 | 4-11 | 5-4 | 5-9 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-2 |
| 450.00 | 5-2 | 5-7 | 6-0 | 6-5 | 6-10 | 7-4 | 7-9 | 8-3 | 8-8 | 9-1 |
| 475.00 | 5-9 | 6-2 | 6-8 | 7-2 | 7-8 | 8-2 | 8-8 | 9-2 | 9-8 | 10-2 |
| 500.00 | 6-4 | 6-10 | 7-4 | 7-11 | 8-6 | 9-0 | 9-7 | 10-2 | 10-9 | 11-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 225.00 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 |
| 250.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 |
| 275.00 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 300.00 | 2-8 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-2 | 4-4 | 4-7 |
| 325.00 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 |
| 350.00 | 3-7 | 3-11 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-3 |
| 375.00 | 4-2 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 |
| 400.00 | 4-8 | 5-1 | 5-6 | 5-11 | 6-3 | 6-8 | 7-1 | 7-5 | 7-9 | 8-1 |
| 425.00 | 5-4 | 5-9 | 6-2 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 | 9-2 |
| 450.00 | 5-11 | 6-5 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-5 | 9-10 | 10-3 |
| 475.00 | 6-8 | 7-2 | 7-9 | 8-4 | 8-10 | 9-5 | 9-11 | 10-5 | 11-0 | 11-5 |
| 500.00 | 7-4 | 8-0 | 8-7 | 9-2 | 9-10 | 10-5 | 11-0 | 11-7 | 12-2 | 12-8 |

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| C | | | | | | F | | | | | |
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| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 |
| 275.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 |
| 300.00 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 |
| 325.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 |
| 350.00 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 |
| 375.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 |
| 400.00 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 |
| 425.00 | 4-10 | 5-2 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-3 | 7-6 |
| 450.00 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-9 | 8-1 | 8-5 |
| 475.00 | 6-1 | 6-5 | 6-10 | 7-2 | 7-7 | 7-11 | 8-4 | 8-8 | 9-0 | 9-5 |
| 500.00 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 | 9-2 | 9-7 | 10-0 | 10-5 |
| 525.00 | 7-5 | 7-10 | 8-4 | 8-9 | 9-3 | 9-8 | 10-2 | 10-7 | 11-0 | 11-6 |
| 550.00 | 8-2 | 8-8 | 9-2 | 9-8 | 10-2 | 10-8 | 11-2 | 11-8 | 12-1 | 12-7 |
| 575.00 | 8-11 | 9-5 | 10-0 | 10-6 | 11-1 | 11-8 | 12-2 | 12-9 | 13-3 | 13-9 |
| 600.00 | 9-8 | 10-3 | 10-11 | 11-6 | 12-1 | 12-8 | 13-3 | 13-10 | 14-5 | 15-0 |
| 625.00 | 10-6 | 11-2 | 11-10 | 12-5 | 13-1 | 13-9 | 14-5 | 15-0 | 15-8 | 16-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 275.00 | 2-4 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 |
| 300.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-2 |
| 325.00 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 |
| 350.00 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 |
| 375.00 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-3 | 6-5 |
| 400.00 | 4-11 | 5-2 | 5-6 | 5-9 | 6-0 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 425.00 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-1 | 7-5 | 7-9 | 8-0 | 8-4 |
| 450.00 | 6-2 | 6-7 | 6-11 | 7-3 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 |
| 475.00 | 6-11 | 7-4 | 7-8 | 8-1 | 8-6 | 8-11 | 9-3 | 9-8 | 10-0 | 10-4 |
| 500.00 | 7-7 | 8-1 | 8-6 | 9-0 | 9-5 | 9-10 | 10-3 | 10-8 | 11-1 | 11-6 |
| 525.00 | 8-5 | 8-11 | 9-5 | 9-11 | 10-5 | 10-10 | 11-4 | 11-9 | 12-3 | 12-8 |
| 550.00 | 9-3 | 9-9 | 10-4 | 10-10 | 11-5 | 11-11 | 12-5 | 12-11 | 13-5 | 13-11 |
| 575.00 | 10-1 | 10-8 | 11-3 | 11-11 | 12-6 | 13-0 | 13-7 | 14-2 | 14-8 | 15-2 |
| 600.00 | 11-0 | 11-8 | 12-3 | 12-11 | 13-7 | 14-2 | 14-10 | 15-5 | 16-0 | 16-6 |
| 625.00 | 11-11 | 12-8 | 13-4 | 14-0 | 14-9 | 15-5 | 16-1 | 16-8 | 17-4 | 17-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 0.31 | 2621 | 0.27 | 3000* |
| 25 | 0 | 0 | 0 | 0.44 | 0.21 | 2576 | 0.18 | 2973 |
| 30 | 0 | 0 | 0 | 0.44 | 0.23 | 2404 | 0.19 | 2845 |
| 40 | 0 | 0 | 0 | 0.44 | 0.27 | 2064 | 0.21 | 2586 |
| 50 | 0 | 0 | 0 | 0.44 | 0.32 | 1733 | 0.24 | 2324 |
| 60 | 0 | 0 | 0 | 0.44 | 0.39 | 1420 | 0.27 | 2059 |
| 70 | 0 | 0 | 0 | 0.44 | 0.48 | 1138 | 0.31 | 1793 |
| 80 | 0 | 0 | 0 | 0.44 | 0.61 | 903 | 0.36 | 1531 |
| 90 | 0 | 0 | 0 | 0.44 | 0.7 | 786 | 0.43 | 1280 |
| 100 | 0 | 0 | 0 | 0.44 | 0.76 | 726 | 0.52 | 1050 |
| 110 | 0 | 0 | 0 | 0.44 | 0.82 | 670 | 0.64 | 855 |
| 120 | 0 | 0 | 0 | 0.44 | 0.89 | 620 | 0.78 | 703 |
| 130 | 0 | 0 | 0 | 0.44 | 0.96 | 574 | 0.93 | 592 |
| 167 | 0 | 0 | 0 | 0.44 | 1.23 | 446 | 1.22 | 451 |
| 212 | 0 | 0 | 0 | 0.44 | 1.56 | 352 | 1.55 | 355 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 1.25 | 2613 | 1.09 | 3000* |
| 25 | 0 | 0 | 0 | 0.44 | 0.9 | 2448 | 0.76 | 2898 |
| 30 | 0 | 0 | 0 | 0.44 | 0.96 | 2295 | 0.79 | 2776 |
| 40 | 0 | 0 | 0 | 0.44 | 1.1 | 2002 | 0.87 | 2532 |
| 50 | 0 | 0 | 0 | 0.44 | 1.27 | 1734 | 0.96 | 2291 |
| 60 | 0 | 0 | 0 | 0.44 | 1.47 | 1498 | 1.07 | 2054 |
| 70 | 0 | 0 | 0 | 0.44 | 1.69 | 1299 | 1.2 | 1828 |
| 80 | 0 | 0 | 0 | 0.44 | 1.94 | 1137 | 1.36 | 1616 |
| 90 | 0 | 0 | 0 | 0.44 | 2.19 | 1007 | 1.54 | 1424 |
| 100 | 0 | 0 | 0 | 0.44 | 2.38 | 924 | 1.75 | 1257 |
| 110 | 0 | 0 | 0 | 0.44 | 2.5 | 881 | 1.97 | 1116 |
| 120 | 0 | 0 | 0 | 0.44 | 2.61 | 842 | 2.2 | 999 |
| 130 | 0 | 0 | 0 | 0.44 | 2.73 | 806 | 2.43 | 904 |
| 167 | 0 | 0 | 0 | 0.44 | 3.17 | 694 | 3.14 | 701 |
| 212 | 0 | 0 | 0 | 0.44 | 3.7 | 595 | 3.68 | 599 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 2.79 | 2630 | 2.44 | 3000* |
| 25 | 0 | 0 | 0 | 0.44 | 2.14 | 2316 | 1.78 | 2787 |
| 30 | 0 | 0 | 0 | 0.44 | 2.26 | 2191 | 1.85 | 2676 |
| 40 | 0 | 0 | 0 | 0.44 | 2.53 | 1959 | 2.01 | 2458 |
| 50 | 0 | 0 | 0 | 0.44 | 2.82 | 1756 | 2.2 | 2248 |
| 60 | 0 | 0 | 0 | 0.44 | 3.13 | 1582 | 2.42 | 2050 |
| 70 | 0 | 0 | 0 | 0.44 | 3.45 | 1434 | 2.65 | 1866 |
| 80 | 0 | 0 | 0 | 0.44 | 3.78 | 1310 | 2.91 | 1699 |
| 90 | 0 | 0 | 0 | 0.44 | 4.11 | 1206 | 3.19 | 1551 |
| 100 | 0 | 0 | 0 | 0.44 | 4.43 | 1119 | 3.49 | 1421 |
| 110 | 0 | 0 | 0 | 0.44 | 4.71 | 1052 | 3.79 | 1308 |
| 120 | 0 | 0 | 0 | 0.44 | 4.87 | 1018 | 4.09 | 1212 |
| 130 | 0 | 0 | 0 | 0.44 | 5.03 | 986 | 4.39 | 1129 |
| 167 | 0 | 0 | 0 | 0.44 | 5.61 | 884 | 5.46 | 908 |
| 212 | 0 | 0 | 0 | 0.44 | 6.3 | 787 | 6.25 | 793 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 4.89 | 2664 | 4.34 | 3000* |
| 25 | 0 | 0 | 0 | 0.44 | 3.97 | 2215 | 3.31 | 2661 |
| 30 | 0 | 0 | 0 | 0.44 | 4.16 | 2118 | 3.43 | 2565 |
| 40 | 0 | 0 | 0 | 0.44 | 4.53 | 1942 | 3.7 | 2379 |
| 50 | 0 | 0 | 0 | 0.44 | 4.92 | 1789 | 3.99 | 2206 |
| 60 | 0 | 0 | 0 | 0.44 | 5.32 | 1656 | 4.3 | 2045 |
| 70 | 0 | 0 | 0 | 0.44 | 5.71 | 1541 | 4.64 | 1899 |
| 80 | 0 | 0 | 0 | 0.44 | 6.11 | 1442 | 4.98 | 1767 |
| 90 | 0 | 0 | 0 | 0.44 | 6.5 | 1356 | 5.34 | 1649 |
| 100 | 0 | 0 | 0 | 0.44 | 6.88 | 1281 | 5.7 | 1545 |
| 110 | 0 | 0 | 0 | 0.44 | 7.25 | 1215 | 6.06 | 1453 |
| 120 | 0 | 0 | 0 | 0.44 | 7.59 | 1161 | 6.43 | 1371 |
| 130 | 0 | 0 | 0 | 0.44 | 7.78 | 1132 | 6.78 | 1298 |
| 167 | 0 | 0 | 0 | 0.44 | 8.48 | 1039 | 8.06 | 1093 |
| 212 | 0 | 0 | 0 | 0.44 | 9.32 | 946 | 9.25 | 953 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.651 | 7.53 | 2704 | 6.79 | 3000* |
| 25 | 0 | 0 | 0 | 0.44 | 6.41 | 2148 | 5.42 | 2540 |
| 30 | 0 | 0 | 0 | 0.44 | 6.63 | 2074 | 5.59 | 2460 |
| 40 | 0 | 0 | 0 | 0.44 | 7.09 | 1940 | 5.96 | 2309 |
| 50 | 0 | 0 | 0 | 0.44 | 7.55 | 1822 | 6.34 | 2169 |
| 60 | 0 | 0 | 0 | 0.44 | 8.01 | 1718 | 6.74 | 2041 |
| 70 | 0 | 0 | 0 | 0.44 | 8.47 | 1626 | 7.15 | 1925 |
| 80 | 0 | 0 | 0 | 0.44 | 8.91 | 1545 | 7.56 | 1820 |
| 90 | 0 | 0 | 0 | 0.44 | 9.35 | 1472 | 7.98 | 1725 |
| 100 | 0 | 0 | 0 | 0.44 | 9.79 | 1407 | 8.4 | 1639 |
| 110 | 0 | 0 | 0 | 0.44 | 10.21 | 1349 | 8.81 | 1562 |
| 120 | 0 | 0 | 0 | 0.44 | 10.62 | 1297 | 9.23 | 1492 |
| 130 | 0 | 0 | 0 | 0.44 | 11 | 1253 | 9.63 | 1429 |
| 167 | 0 | 0 | 0 | 0.44 | 11.8 | 1168 | 11.09 | 1242 |
| 212 | 0 | 0 | 0 | 0.44 | 12.77 | 1080 | 12.68 | 1087 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 |
| 200.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-9 | 2-1 | 2-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-1 | 1-4 | 1-7 | 1-8 | 1-10 |
| 175.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-2 | 2-4 | 2-6 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-7 | 1-11 | 2-5 | 2-10 | 3-0 | 3-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.38

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 |
| 200.00 | 0-9 | 0-10 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-7 | 1-9 | 2-0 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-3 | 2-6 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-9 | 3-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-7 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-5 |
| 175.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-4 | 1-6 | 1-8 | 1-10 | 1-11 |
| 200.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-6 |
| 225.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-2 | 2-5 | 2-9 | 3-0 | 3-2 |
| 250.00 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 | 3-0 | 3-5 | 3-9 | 3-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.39

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 175.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 |
| 225.00 | 1-0 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 |
| 250.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 |
| 275.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 |
| 300.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 |
| 325.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 |
| 350.00 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 4-0 | 4-4 | 4-9 | 5-2 |
| 375.00 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-2 | 4-7 | 5-0 | 5-5 | 5-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 175.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-1 |
| 225.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 |
| 250.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 |
| 275.00 | 1-8 | 1-11 | 2-1 | 2-4 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-0 |
| 300.00 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 |
| 325.00 | 2-4 | 2-8 | 3-0 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 |
| 350.00 | 2-9 | 3-1 | 3-5 | 3-10 | 4-3 | 4-8 | 5-2 | 5-7 | 6-0 | 6-5 |
| 375.00 | 3-2 | 3-6 | 3-11 | 4-5 | 4-11 | 5-5 | 5-11 | 6-5 | 6-11 | 7-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.40

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 |
| 250.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 |
| 275.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 300.00 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-5 |
| 325.00 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 |
| 350.00 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-8 |
| 375.00 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-8 | 5-0 | 5-4 |
| 400.00 | 3-2 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 6-1 |
| 425.00 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 | 5-8 | 6-0 | 6-5 | 6-10 |
| 450.00 | 4-0 | 4-4 | 4-8 | 5-1 | 5-5 | 5-10 | 6-4 | 6-9 | 7-3 | 7-8 |
| 475.00 | 4-6 | 4-10 | 5-3 | 5-8 | 6-1 | 6-6 | 7-0 | 7-6 | 8-0 | 8-7 |
| 500.00 | 5-0 | 5-4 | 5-9 | 6-3 | 6-9 | 7-3 | 7-9 | 8-4 | 8-11 | 9-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 |
| 225.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 250.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 |
| 275.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-5 |
| 300.00 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 |
| 325.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 |
| 350.00 | 2-11 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 |
| 375.00 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-9 | 6-1 | 6-4 |
| 400.00 | 3-10 | 4-2 | 4-6 | 4-11 | 5-4 | 5-9 | 6-1 | 6-6 | 6-11 | 7-3 |
| 425.00 | 4-3 | 4-8 | 5-1 | 5-7 | 6-0 | 6-5 | 6-11 | 7-4 | 7-9 | 8-2 |
| 450.00 | 4-10 | 5-3 | 5-9 | 6-3 | 6-9 | 7-3 | 7-9 | 8-3 | 8-8 | 9-2 |
| 475.00 | 5-4 | 5-10 | 6-5 | 6-11 | 7-6 | 8-1 | 8-7 | 9-2 | 9-8 | 10-3 |
| 500.00 | 5-11 | 6-6 | 7-1 | 7-8 | 8-4 | 8-11 | 9-7 | 10-2 | 10-9 | 11-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 |
| 275.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 300.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 |
| 325.00 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 |
| 350.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 |
| 375.00 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 |
| 400.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-8 |
| 425.00 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-2 | 5-6 | 5-9 | 6-1 | 6-4 |
| 450.00 | 4-3 | 4-6 | 4-10 | 5-2 | 5-6 | 5-9 | 6-2 | 6-6 | 6-10 | 7-2 |
| 475.00 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-10 | 7-2 | 7-7 | 7-11 |
| 500.00 | 5-3 | 5-7 | 6-0 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 |
| 525.00 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-11 | 8-4 | 8-10 | 9-3 | 9-9 |
| 550.00 | 6-4 | 6-9 | 7-3 | 7-8 | 8-2 | 8-8 | 9-2 | 9-8 | 10-2 | 10-8 |
| 575.00 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-5 | 10-0 | 10-7 | 11-1 | 11-8 |
| 600.00 | 7-7 | 8-1 | 8-7 | 9-2 | 9-8 | 10-4 | 10-11 | 11-6 | 12-1 | 12-8 |
| 625.00 | 8-2 | 8-9 | 9-4 | 9-11 | 10-6 | 11-2 | 11-10 | 12-6 | 13-1 | 13-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 |
| 275.00 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-1 |
| 300.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-8 |
| 325.00 | 2-7 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 |
| 350.00 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 | 4-10 | 5-0 |
| 375.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 |
| 400.00 | 3-11 | 4-3 | 4-6 | 4-10 | 5-2 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 |
| 425.00 | 4-6 | 4-10 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-4 |
| 450.00 | 5-0 | 5-4 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 | 8-3 |
| 475.00 | 5-7 | 6-0 | 6-5 | 6-10 | 7-3 | 7-8 | 8-1 | 8-5 | 8-10 | 9-3 |
| 500.00 | 6-2 | 6-8 | 7-1 | 7-7 | 8-0 | 8-6 | 8-11 | 9-4 | 9-9 | 10-2 |
| 525.00 | 6-10 | 7-4 | 7-10 | 8-4 | 8-10 | 9-4 | 9-10 | 10-4 | 10-9 | 11-3 |
| 550.00 | 7-6 | 8-0 | 8-7 | 9-2 | 9-8 | 10-3 | 10-9 | 11-4 | 11-10 | 12-4 |
| 575.00 | 8-2 | 8-9 | 9-5 | 10-0 | 10-7 | 11-2 | 11-9 | 12-4 | 12-11 | 13-6 |
| 600.00 | 8-11 | 9-7 | 10-3 | 10-11 | 11-6 | 12-2 | 12-10 | 13-6 | 14-1 | 14-8 |
| 625.00 | 9-8 | 10-4 | 11-1 | 11-10 | 12-6 | 13-3 | 13-11 | 14-7 | 15-4 | 15-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 1.85 | 1000 | 1.85 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.63 | 339 | 1.57 | 352 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.95 | 282 | 1.91 | 288 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.05 | 269 | 2.01 | 275 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.14 | 257 | 2.10 | 263 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.23 | 247 | 2.19 | 252 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.31 | 239 | 2.27 | 243 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.36 | 233 | 2.35 | 234 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.41 | 228 | 2.41 | 228 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.47 | 224 | 2.47 | 224 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.52 | 219 | 2.52 | 219 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.57 | 215 | 2.57 | 215 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.62 | 211 | 2.62 | 211 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.80 | 197 | 2.80 | 197 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.00 | 184 | 3.00 | 184 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 7.42 | 1000 | 7.42 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.19 | 308 | 7.13 | 310 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.53 | 294 | 7.48 | 296 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.63 | 290 | 7.59 | 292 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.74 | 286 | 7.69 | 288 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.84 | 282 | 7.79 | 284 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.94 | 279 | 7.89 | 281 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.01 | 276 | 7.99 | 277 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.08 | 274 | 8.08 | 274 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.15 | 272 | 8.14 | 272 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.21 | 270 | 8.21 | 270 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.27 | 268 | 8.27 | 268 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.34 | 266 | 8.34 | 266 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.57 | 259 | 8.57 | 259 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.85 | 251 | 8.85 | 251 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 16.80 | 1000 | 16.80 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.58 | 302 | 16.51 | 303 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.92 | 296 | 16.87 | 297 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.02 | 295 | 16.98 | 295 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.13 | 293 | 17.08 | 294 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.24 | 291 | 17.19 | 292 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.34 | 289 | 17.29 | 290 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.42 | 288 | 17.39 | 288 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.49 | 287 | 17.49 | 287 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.56 | 286 | 17.56 | 286 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.63 | 285 | 17.63 | 285 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.70 | 284 | 17.70 | 284 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.77 | 282 | 17.77 | 282 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 18.02 | 279 | 18.02 | 279 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 18.32 | 274 | 18.32 | 274 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 30.18 | 1000 | 30.18 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.95 | 300 | 29.89 | 301 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.29 | 297 | 30.25 | 298 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.40 | 296 | 30.35 | 297 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.50 | 295 | 30.46 | 296 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.61 | 294 | 30.56 | 295 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.72 | 293 | 30.66 | 294 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.80 | 292 | 30.77 | 293 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.88 | 292 | 30.87 | 292 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.95 | 291 | 30.95 | 291 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.02 | 291 | 31.02 | 291 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.09 | 290 | 31.09 | 290 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.16 | 289 | 31.16 | 289 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.42 | 287 | 31.42 | 287 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.73 | 284 | 31.73 | 284 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 47.79 | 1000 | 47.79 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 47.56 | 300 | 47.50 | 300 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 47.90 | 298 | 47.86 | 298 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.01 | 297 | 47.96 | 297 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.12 | 296 | 48.07 | 297 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.23 | 296 | 48.17 | 296 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.33 | 295 | 48.28 | 295 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.42 | 295 | 48.38 | 295 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.49 | 294 | 48.49 | 294 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.56 | 294 | 48.56 | 294 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.64 | 293 | 48.63 | 293 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.71 | 293 | 48.71 | 293 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.78 | 293 | 48.78 | 293 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 49.04 | 291 | 49.04 | 291 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 49.36 | 289 | 49.36 | 289 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
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| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 |
| 125.00 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 150.00 | 4-1 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-4 | 5-5 | 5-7 | 5-8 |
| 175.00 | 5-7 | 5-10 | 6-2 | 6-5 | 6-8 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 |
| 200.00 | 7-3 | 7-8 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-8 | 9-11 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 |
| 125.00 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 150.00 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 |
| 175.00 | 5-8 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 |
| 200.00 | 7-5 | 7-10 | 8-2 | 8-7 | 8-11 | 9-3 | 9-6 | 9-8 | 9-11 | 10-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.46

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 |
| 125.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 |
| 150.00 | 4-2 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 175.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 |
| 200.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 225.00 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-5 |
| 250.00 | 11-7 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 | 12-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-10 | 1-11 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 |
| 125.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-2 |
| 150.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 |
| 175.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 |
| 200.00 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 225.00 | 9-5 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 |
| 250.00 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 | 12-9 | 12-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.47

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 |
| 175.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 6-0 |
| 200.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-9 | 7-10 |
| 225.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 |
| 250.00 | 11-8 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 |
| 275.00 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 |
| 300.00 | 16-9 | 16-10 | 17-0 | 17-1 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-8 |
| 325.00 | 19-8 | 19-10 | 19-11 | 20-1 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 | 20-9 |
| 350.00 | 22-10 | 23-0 | 23-2 | 23-3 | 23-5 | 23-7 | 23-9 | 23-10 | 23-11 | 24-0 |
| 375.00 | 26-3 | 26-5 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 | 27-5 | 27-6 | 27-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 |
| 175.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 |
| 200.00 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-10 |
| 225.00 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 |
| 250.00 | 11-8 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 |
| 275.00 | 14-1 | 14-2 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-8 | 14-9 | 14-10 |
| 300.00 | 16-10 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 |
| 325.00 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-8 | 20-9 |
| 350.00 | 22-11 | 23-1 | 23-2 | 23-4 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 |
| 375.00 | 26-4 | 26-6 | 26-8 | 26-10 | 27-0 | 27-2 | 27-4 | 27-5 | 27-6 | 27-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.48

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-9 |
| 225.00 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 |
| 250.00 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-1 |
| 275.00 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 |
| 300.00 | 16-11 | 16-11 | 17-0 | 17-1 | 17-2 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 |
| 325.00 | 19-10 | 19-11 | 20-0 | 20-1 | 20-1 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 |
| 350.00 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-8 |
| 375.00 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-3 |
| 400.00 | 30-2 | 30-3 | 30-4 | 30-5 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 |
| 425.00 | 34-1 | 34-2 | 34-4 | 34-5 | 34-6 | 34-8 | 34-9 | 34-11 | 35-0 | 35-1 |
| 450.00 | 38-3 | 38-4 | 38-6 | 38-7 | 38-9 | 38-11 | 39-0 | 39-2 | 39-3 | 39-4 |
| 475.00 | 42-8 | 42-9 | 42-11 | 43-1 | 43-3 | 43-5 | 43-6 | 43-8 | 43-9 | 43-11 |
| 500.00 | 47-3 | 47-5 | 47-7 | 47-9 | 47-11 | 48-1 | 48-3 | 48-5 | 48-7 | 48-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 | 7-9 |
| 225.00 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 |
| 250.00 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-1 |
| 275.00 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 |
| 300.00 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 |
| 325.00 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-5 | 20-5 |
| 350.00 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 | 23-8 |
| 375.00 | 26-6 | 26-7 | 26-8 | 26-9 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 |
| 400.00 | 30-2 | 30-3 | 30-5 | 30-6 | 30-7 | 30-9 | 30-10 | 30-11 | 30-11 | 31-0 |
| 425.00 | 34-1 | 34-3 | 34-4 | 34-6 | 34-7 | 34-9 | 34-10 | 34-11 | 35-0 | 35-1 |
| 450.00 | 38-3 | 38-5 | 38-7 | 38-8 | 38-10 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 |
| 475.00 | 42-8 | 42-10 | 43-0 | 43-2 | 43-4 | 43-5 | 43-7 | 43-8 | 43-9 | 43-11 |
| 500.00 | 47-4 | 47-6 | 47-8 | 47-10 | 48-0 | 48-2 | 48-4 | 48-5 | 48-7 | 48-8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-0 | 12-1 |
| 275.00 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 |
| 300.00 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 |
| 325.00 | 20-0 | 20-1 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 |
| 350.00 | 23-3 | 23-4 | 23-4 | 23-5 | 23-6 | 23-6 | 23-7 | 23-7 | 23-8 | 23-8 |
| 375.00 | 26-9 | 26-9 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 |
| 400.00 | 30-5 | 30-6 | 30-7 | 30-8 | 30-8 | 30-9 | 30-10 | 30-11 | 30-11 | 31-0 |
| 425.00 | 34-5 | 34-6 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-0 |
| 450.00 | 38-7 | 38-8 | 38-9 | 38-10 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 |
| 475.00 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 43-7 | 43-8 | 43-9 | 43-10 |
| 500.00 | 47-9 | 47-10 | 48-0 | 48-1 | 48-2 | 48-3 | 48-5 | 48-6 | 48-7 | 48-8 |
| 525.00 | 52-9 | 52-10 | 52-11 | 53-1 | 53-2 | 53-4 | 53-5 | 53-6 | 53-7 | 53-8 |
| 550.00 | 57-11 | 58-1 | 58-2 | 58-4 | 58-5 | 58-7 | 58-8 | 58-10 | 58-11 | 59-0 |
| 575.00 | 63-5 | 63-6 | 63-8 | 63-10 | 63-11 | 64-1 | 64-3 | 64-5 | 64-6 | 64-7 |
| 600.00 | 69-1 | 69-3 | 69-5 | 69-7 | 69-9 | 69-11 | 70-1 | 70-2 | 70-4 | 70-5 |
| 625.00 | 75-1 | 75-3 | 75-5 | 75-7 | 75-9 | 75-11 | 76-1 | 76-3 | 76-5 | 76-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-0 | 12-1 |
| 275.00 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 |
| 300.00 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-4 |
| 325.00 | 20-1 | 20-1 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 |
| 350.00 | 23-3 | 23-4 | 23-5 | 23-5 | 23-6 | 23-6 | 23-7 | 23-7 | 23-8 | 23-8 |
| 375.00 | 26-9 | 26-10 | 26-10 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 | 27-3 |
| 400.00 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-10 | 30-11 | 30-11 | 31-0 |
| 425.00 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 | 34-10 | 34-11 | 35-0 | 35-0 |
| 450.00 | 38-7 | 38-9 | 38-10 | 38-11 | 39-0 | 39-1 | 39-2 | 39-2 | 39-3 | 39-4 |
| 475.00 | 43-1 | 43-2 | 43-3 | 43-5 | 43-6 | 43-7 | 43-8 | 43-9 | 43-9 | 43-10 |
| 500.00 | 47-10 | 47-11 | 48-0 | 48-1 | 48-3 | 48-4 | 48-5 | 48-6 | 48-7 | 48-8 |
| 525.00 | 52-9 | 52-11 | 53-0 | 53-1 | 53-3 | 53-4 | 53-5 | 53-6 | 53-7 | 53-8 |
| 550.00 | 58-0 | 58-1 | 58-3 | 58-4 | 58-6 | 58-8 | 58-9 | 58-10 | 58-11 | 59-0 |
| 575.00 | 63-5 | 63-7 | 63-9 | 63-11 | 64-0 | 64-2 | 64-3 | 64-5 | 64-6 | 64-7 |
| 600.00 | 69-2 | 69-4 | 69-6 | 69-8 | 69-10 | 70-0 | 70-1 | 70-2 | 70-4 | 70-5 |
| 625.00 | 75-2 | 75-4 | 75-6 | 75-8 | 75-10 | 76-0 | 76-2 | 76-3 | 76-5 | 76-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 1.23 | 1500 | 1.23 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.78 | 703 | 0.72 | 761 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.24 | 445 | 1.15 | 478 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.37 | 401 | 1.29 | 428 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.50 | 367 | 1.41 | 390 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.62 | 340 | 1.53 | 359 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.73 | 319 | 1.65 | 335 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.79 | 307 | 1.75 | 314 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.86 | 296 | 1.86 | 297 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.92 | 286 | 1.92 | 286 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.99 | 277 | 1.99 | 277 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.05 | 269 | 2.05 | 269 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.11 | 262 | 2.11 | 262 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.32 | 238 | 2.32 | 238 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.55 | 216 | 2.55 | 216 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 4.93 | 1500 | 4.93 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.44 | 496 | 4.36 | 506 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.94 | 447 | 4.84 | 456 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.09 | 433 | 4.99 | 442 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.24 | 421 | 5.14 | 429 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.39 | 409 | 5.29 | 417 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.53 | 399 | 5.43 | 407 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.67 | 389 | 5.57 | 397 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.76 | 383 | 5.70 | 387 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.85 | 378 | 5.83 | 378 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.93 | 372 | 5.93 | 372 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.02 | 367 | 6.02 | 367 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.10 | 362 | 6.10 | 362 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.41 | 345 | 6.41 | 345 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.76 | 327 | 6.76 | 327 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 11.12 | 1500 | 11.12 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 10.64 | 468 | 10.55 | 471 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.13 | 447 | 11.03 | 451 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.29 | 441 | 11.19 | 445 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.45 | 435 | 11.34 | 439 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.61 | 429 | 11.50 | 433 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.76 | 424 | 11.65 | 428 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.91 | 418 | 11.79 | 422 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.03 | 414 | 11.94 | 417 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.12 | 411 | 12.09 | 412 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.22 | 408 | 12.22 | 408 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.32 | 405 | 12.32 | 405 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.41 | 402 | 12.41 | 402 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.76 | 391 | 12.76 | 391 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.17 | 379 | 13.17 | 379 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 19.86 | 1500 | 19.86 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.38 | 458 | 19.29 | 460 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.87 | 447 | 19.77 | 449 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.03 | 444 | 19.93 | 446 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.19 | 440 | 20.08 | 443 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.35 | 437 | 20.24 | 439 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.51 | 434 | 20.39 | 436 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.67 | 430 | 20.55 | 433 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.80 | 428 | 20.70 | 430 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.90 | 426 | 20.85 | 427 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.00 | 424 | 21.00 | 424 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.10 | 422 | 21.10 | 422 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.20 | 420 | 21.20 | 420 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.57 | 413 | 21.57 | 413 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 22.01 | 405 | 22.01 | 405 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 31.21 | 1500 | 31.21 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.73 | 454 | 30.64 | 456 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.22 | 447 | 31.12 | 449 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.38 | 445 | 31.28 | 446 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.54 | 443 | 31.44 | 444 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.71 | 441 | 31.59 | 442 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.87 | 439 | 31.75 | 440 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 32.02 | 436 | 31.90 | 438 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 32.16 | 435 | 32.06 | 436 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 32.26 | 433 | 32.21 | 434 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 32.37 | 432 | 32.36 | 432 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 32.47 | 431 | 32.47 | 431 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 32.58 | 429 | 32.58 | 429 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 32.96 | 424 | 32.96 | 424 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 33.42 | 419 | 33.42 | 419 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-1 |
| 100.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-7 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-1 |
| 150.00 | 2-3 | 2-7 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 | 4-6 |
| 175.00 | 3-1 | 3-6 | 3-11 | 4-4 | 4-8 | 5-1 | 5-4 | 5-8 | 5-11 | 6-1 |
| 200.00 | 4-0 | 4-7 | 5-2 | 5-8 | 6-2 | 6-7 | 7-0 | 7-5 | 7-8 | 7-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 |
| 100.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-8 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 |
| 150.00 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 3-11 | 4-0 | 4-2 | 4-4 | 4-6 |
| 175.00 | 3-4 | 3-9 | 4-2 | 4-7 | 5-0 | 5-4 | 5-6 | 5-8 | 5-11 | 6-1 |
| 200.00 | 4-4 | 4-11 | 5-6 | 6-0 | 6-6 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.54

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 |
| 125.00 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 150.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 |
| 175.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-6 | 4-6 |
| 200.00 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 |
| 225.00 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-6 |
| 250.00 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 |
| 125.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 |
| 150.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 175.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 |
| 200.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 |
| 225.00 | 6-1 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 |
| 250.00 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 |
| 175.00 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 |
| 200.00 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 225.00 | 6-1 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 |
| 250.00 | 7-7 | 7-8 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 | 8-3 | 8-5 | 8-6 |
| 275.00 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 |
| 300.00 | 10-11 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 | 12-3 |
| 325.00 | 12-9 | 12-11 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 |
| 350.00 | 14-10 | 15-0 | 15-3 | 15-5 | 15-8 | 15-10 | 16-1 | 16-3 | 16-6 | 16-8 |
| 375.00 | 17-0 | 17-3 | 17-6 | 17-9 | 18-0 | 18-3 | 18-5 | 18-8 | 18-11 | 19-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 |
| 175.00 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 |
| 200.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-5 |
| 225.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 |
| 250.00 | 7-7 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 |
| 275.00 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 |
| 300.00 | 11-0 | 11-2 | 11-4 | 11-5 | 11-7 | 11-9 | 11-11 | 12-0 | 12-1 | 12-3 |
| 325.00 | 12-11 | 13-1 | 13-3 | 13-5 | 13-8 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 |
| 350.00 | 14-11 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 | 16-3 | 16-5 | 16-6 | 16-8 |
| 375.00 | 17-2 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-10 | 19-0 | 19-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS



OH810.56

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 |
| 225.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 |
| 250.00 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-2 | 8-2 |
| 275.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 |
| 300.00 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 |
| 325.00 | 12-11 | 13-0 | 13-2 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 |
| 350.00 | 15-0 | 15-2 | 15-3 | 15-4 | 15-6 | 15-7 | 15-9 | 15-10 | 15-11 | 16-1 |
| 375.00 | 17-3 | 17-4 | 17-6 | 17-8 | 17-9 | 17-11 | 18-1 | 18-2 | 18-4 | 18-5 |
| 400.00 | 19-7 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-8 | 20-10 | 21-0 |
| 425.00 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 23-0 | 23-2 | 23-5 | 23-7 | 23-9 |
| 450.00 | 24-10 | 25-1 | 25-3 | 25-5 | 25-8 | 25-10 | 26-0 | 26-3 | 26-5 | 26-7 |
| 475.00 | 27-8 | 27-11 | 28-2 | 28-4 | 28-7 | 28-10 | 29-0 | 29-3 | 29-5 | 29-8 |
| 500.00 | 30-8 | 30-11 | 31-2 | 31-5 | 31-8 | 31-11 | 32-2 | 32-5 | 32-8 | 32-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 |
| 225.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 |
| 250.00 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 |
| 275.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 |
| 300.00 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 |
| 325.00 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 | 13-9 | 13-10 |
| 350.00 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-1 |
| 375.00 | 17-4 | 17-5 | 17-7 | 17-9 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-5 |
| 400.00 | 19-9 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 20-11 | 21-0 |
| 425.00 | 22-3 | 22-5 | 22-7 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-7 | 23-9 |
| 450.00 | 25-0 | 25-2 | 25-5 | 25-7 | 25-9 | 26-0 | 26-2 | 26-4 | 26-6 | 26-7 |
| 475.00 | 27-10 | 28-1 | 28-3 | 28-6 | 28-9 | 29-0 | 29-2 | 29-4 | 29-6 | 29-8 |
| 500.00 | 30-10 | 31-1 | 31-4 | 31-7 | 31-10 | 32-1 | 32-4 | 32-7 | 32-9 | 32-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 |
| 275.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 |
| 300.00 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 |
| 325.00 | 13-1 | 13-1 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 |
| 350.00 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 |
| 375.00 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 |
| 400.00 | 19-9 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-5 | 20-6 | 20-7 | 20-8 |
| 425.00 | 22-4 | 22-5 | 22-7 | 22-8 | 22-10 | 22-11 | 23-0 | 23-2 | 23-3 | 23-4 |
| 450.00 | 25-1 | 25-2 | 25-4 | 25-5 | 25-7 | 25-8 | 25-10 | 25-11 | 26-1 | 26-2 |
| 475.00 | 27-11 | 28-1 | 28-3 | 28-4 | 28-6 | 28-8 | 28-9 | 28-11 | 29-1 | 29-2 |
| 500.00 | 31-0 | 31-1 | 31-3 | 31-5 | 31-7 | 31-9 | 31-11 | 32-1 | 32-3 | 32-4 |
| 525.00 | 34-2 | 34-4 | 34-6 | 34-8 | 34-10 | 35-0 | 35-2 | 35-4 | 35-6 | 35-8 |
| 550.00 | 37-6 | 37-8 | 37-11 | 38-1 | 38-3 | 38-5 | 38-8 | 38-10 | 39-0 | 39-2 |
| 575.00 | 41-0 | 41-3 | 41-5 | 41-8 | 41-10 | 42-1 | 42-3 | 42-6 | 42-8 | 42-11 |
| 600.00 | 44-8 | 44-11 | 45-2 | 45-4 | 45-7 | 45-10 | 46-1 | 46-3 | 46-6 | 46-9 |
| 625.00 | 48-6 | 48-9 | 49-0 | 49-3 | 49-6 | 49-9 | 50-0 | 50-3 | 50-6 | 50-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 |
| 275.00 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 300.00 | 11-2 | 11-2 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 |
| 325.00 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 |
| 350.00 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-9 | 15-10 |
| 375.00 | 17-5 | 17-6 | 17-7 | 17-8 | 17-10 | 17-11 | 18-0 | 18-1 | 18-1 | 18-2 |
| 400.00 | 19-10 | 19-11 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-7 | 20-7 | 20-8 |
| 425.00 | 22-5 | 22-6 | 22-8 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 |
| 450.00 | 25-2 | 25-3 | 25-5 | 25-6 | 25-8 | 25-9 | 25-11 | 26-0 | 26-1 | 26-2 |
| 475.00 | 28-0 | 28-2 | 28-4 | 28-5 | 28-7 | 28-9 | 28-11 | 29-0 | 29-1 | 29-2 |
| 500.00 | 31-1 | 31-3 | 31-5 | 31-7 | 31-8 | 31-10 | 32-0 | 32-2 | 32-3 | 32-4 |
| 525.00 | 34-3 | 34-5 | 34-7 | 34-10 | 35-0 | 35-2 | 35-4 | 35-6 | 35-7 | 35-8 |
| 550.00 | 37-7 | 37-10 | 38-0 | 38-3 | 38-5 | 38-7 | 38-10 | 39-0 | 39-1 | 39-3 |
| 575.00 | 41-2 | 41-4 | 41-7 | 41-9 | 42-0 | 42-3 | 42-5 | 42-7 | 42-9 | 42-11 |
| 600.00 | 44-10 | 45-1 | 45-4 | 45-6 | 45-9 | 46-0 | 46-3 | 46-5 | 46-7 | 46-9 |
| 625.00 | 48-8 | 48-11 | 49-2 | 49-5 | 49-8 | 49-11 | 50-2 | 50-5 | 50-7 | 50-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.475 | 0.92 | 2000 | 0.92 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.4 | 1387 | 0.37 | 1484 |
| 30 | 0 | 0 | 0 | 0.44 | 0.78 | 709 | 0.66 | 835 |
| 40 | 0 | 0 | 0 | 0.44 | 0.93 | 590 | 0.8 | 690 |
| 50 | 0 | 0 | 0 | 0.44 | 1.09 | 507 | 0.94 | 584 |
| 60 | 0 | 0 | 0 | 0.44 | 1.23 | 447 | 1.09 | 507 |
| 70 | 0 | 0 | 0 | 0.44 | 1.37 | 403 | 1.22 | 449 |
| 80 | 0 | 0 | 0 | 0.44 | 1.44 | 381 | 1.36 | 406 |
| 90 | 0 | 0 | 0 | 0.44 | 1.52 | 363 | 1.48 | 372 |
| 100 | 0 | 0 | 0 | 0.44 | 1.59 | 346 | 1.59 | 346 |
| 110 | 0 | 0 | 0 | 0.44 | 1.66 | 332 | 1.66 | 332 |
| 120 | 0 | 0 | 0 | 0.44 | 1.73 | 319 | 1.73 | 319 |
| 130 | 0 | 0 | 0 | 0.44 | 1.79 | 307 | 1.79 | 307 |
| 167 | 0 | 0 | 0 | 0.44 | 2.03 | 272 | 2.03 | 272 |
| 212 | 0 | 0 | 0 | 0.44 | 2.29 | 241 | 2.29 | 241 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.475 | 3.69 | 2000 | 3.69 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 2.84 | 774 | 2.69 | 820 |
| 30 | 0 | 0 | 0 | 0.44 | 3.5 | 629 | 3.33 | 662 |
| 40 | 0 | 0 | 0 | 0.44 | 3.71 | 594 | 3.53 | 625 |
| 50 | 0 | 0 | 0 | 0.44 | 3.9 | 565 | 3.72 | 592 |
| 60 | 0 | 0 | 0 | 0.44 | 4.09 | 539 | 3.91 | 564 |
| 70 | 0 | 0 | 0 | 0.44 | 4.27 | 516 | 4.09 | 539 |
| 80 | 0 | 0 | 0 | 0.44 | 4.44 | 496 | 4.26 | 517 |
| 90 | 0 | 0 | 0 | 0.44 | 4.57 | 482 | 4.43 | 498 |
| 100 | 0 | 0 | 0 | 0.44 | 4.68 | 472 | 4.59 | 480 |
| 110 | 0 | 0 | 0 | 0.44 | 4.78 | 462 | 4.75 | 464 |
| 120 | 0 | 0 | 0 | 0.44 | 4.88 | 452 | 4.88 | 452 |
| 130 | 0 | 0 | 0 | 0.44 | 4.98 | 443 | 4.98 | 443 |
| 167 | 0 | 0 | 0 | 0.44 | 5.33 | 414 | 5.33 | 414 |
| 212 | 0 | 0 | 0 | 0.44 | 5.74 | 385 | 5.74 | 385 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.475 | 8.32 | 2000 | 8.32 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 7.46 | 665 | 7.29 | 680 |
| 30 | 0 | 0 | 0 | 0.44 | 8.13 | 611 | 7.94 | 625 |
| 40 | 0 | 0 | 0 | 0.44 | 8.34 | 596 | 8.15 | 609 |
| 50 | 0 | 0 | 0 | 0.44 | 8.54 | 581 | 8.35 | 595 |
| 60 | 0 | 0 | 0 | 0.44 | 8.75 | 568 | 8.55 | 581 |
| 70 | 0 | 0 | 0 | 0.44 | 8.95 | 555 | 8.75 | 568 |
| 80 | 0 | 0 | 0 | 0.44 | 9.14 | 544 | 8.94 | 556 |
| 90 | 0 | 0 | 0 | 0.44 | 9.33 | 533 | 9.13 | 544 |
| 100 | 0 | 0 | 0 | 0.44 | 9.45 | 526 | 9.31 | 534 |
| 110 | 0 | 0 | 0 | 0.44 | 9.57 | 519 | 9.49 | 523 |
| 120 | 0 | 0 | 0 | 0.44 | 9.69 | 513 | 9.67 | 514 |
| 130 | 0 | 0 | 0 | 0.44 | 9.81 | 507 | 9.81 | 507 |
| 167 | 0 | 0 | 0 | 0.44 | 10.23 | 486 | 10.23 | 486 |
| 212 | 0 | 0 | 0 | 0.44 | 10.72 | 464 | 10.72 | 464 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.475 | 14.83 | 2000 | 14.83 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 13.97 | 633 | 13.8 | 641 |
| 30 | 0 | 0 | 0 | 0.44 | 14.63 | 605 | 14.44 | 612 |
| 40 | 0 | 0 | 0 | 0.44 | 14.85 | 596 | 14.65 | 604 |
| 50 | 0 | 0 | 0 | 0.44 | 15.06 | 588 | 14.86 | 595 |
| 60 | 0 | 0 | 0 | 0.44 | 15.27 | 580 | 15.07 | 587 |
| 70 | 0 | 0 | 0 | 0.44 | 15.47 | 572 | 15.27 | 580 |
| 80 | 0 | 0 | 0 | 0.44 | 15.68 | 565 | 15.47 | 572 |
| 90 | 0 | 0 | 0 | 0.44 | 15.88 | 558 | 15.67 | 565 |
| 100 | 0 | 0 | 0 | 0.44 | 16.03 | 552 | 15.86 | 558 |
| 110 | 0 | 0 | 0 | 0.44 | 16.16 | 548 | 16.06 | 552 |
| 120 | 0 | 0 | 0 | 0.44 | 16.29 | 544 | 16.25 | 545 |
| 130 | 0 | 0 | 0 | 0.44 | 16.42 | 540 | 16.42 | 540 |
| 167 | 0 | 0 | 0 | 0.44 | 16.88 | 525 | 16.88 | 525 |
| 212 | 0 | 0 | 0 | 0.44 | 17.43 | 509 | 17.43 | 509 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.475 | 23.25 | 2000 | 23.25 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 22.39 | 619 | 22.22 | 624 |
| 30 | 0 | 0 | 0 | 0.44 | 23.05 | 602 | 22.86 | 607 |
| 40 | 0 | 0 | 0 | 0.44 | 23.26 | 596 | 23.07 | 601 |
| 50 | 0 | 0 | 0 | 0.44 | 23.48 | 591 | 23.28 | 596 |
| 60 | 0 | 0 | 0 | 0.44 | 23.69 | 586 | 23.48 | 591 |
| 70 | 0 | 0 | 0 | 0.44 | 23.9 | 581 | 23.69 | 586 |
| 80 | 0 | 0 | 0 | 0.44 | 24.11 | 576 | 23.89 | 581 |
| 90 | 0 | 0 | 0 | 0.44 | 24.32 | 571 | 24.1 | 576 |
| 100 | 0 | 0 | 0 | 0.44 | 24.49 | 567 | 24.3 | 571 |
| 110 | 0 | 0 | 0 | 0.44 | 24.62 | 564 | 24.5 | 567 |
| 120 | 0 | 0 | 0 | 0.44 | 24.75 | 561 | 24.7 | 562 |
| 130 | 0 | 0 | 0 | 0.44 | 24.89 | 558 | 24.89 | 558 |
| 167 | 0 | 0 | 0 | 0.44 | 25.38 | 547 | 25.38 | 547 |
| 212 | 0 | 0 | 0 | 0.44 | 25.95 | 535 | 25.95 | 535 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 125.00 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-6 | 2-7 |
| 150.00 | 1-3 | 1-6 | 1-10 | 2-1 | 2-5 | 2-9 | 3-1 | 3-4 | 3-7 | 3-9 |
| 175.00 | 1-8 | 2-0 | 2-5 | 2-11 | 3-4 | 3-9 | 4-2 | 4-6 | 4-10 | 5-1 |
| 200.00 | 2-2 | 2-8 | 3-2 | 3-9 | 4-4 | 4-11 | 5-5 | 5-11 | 6-4 | 6-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 1-0 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 |
| 150.00 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 |
| 175.00 | 1-11 | 2-5 | 2-10 | 3-4 | 3-9 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 |
| 200.00 | 2-6 | 3-1 | 3-9 | 4-4 | 4-11 | 5-6 | 5-9 | 6-1 | 6-4 | 6-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 |
| 150.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 175.00 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 |
| 200.00 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 |
| 225.00 | 3-11 | 4-3 | 4-6 | 4-8 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 |
| 250.00 | 4-11 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 |
| 150.00 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 |
| 175.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 |
| 200.00 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 | 4-9 |
| 225.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-9 | 5-11 | 6-1 |
| 250.00 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-4 | 7-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 |
| 175.00 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 |
| 200.00 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 225.00 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 |
| 250.00 | 5-4 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 |
| 275.00 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 |
| 300.00 | 7-9 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 |
| 325.00 | 9-1 | 9-4 | 9-7 | 9-10 | 10-0 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 |
| 350.00 | 10-6 | 10-10 | 11-1 | 11-4 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 |
| 375.00 | 12-1 | 12-5 | 12-9 | 13-1 | 13-4 | 13-8 | 14-0 | 14-3 | 14-7 | 14-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 |
| 175.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 |
| 200.00 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 |
| 225.00 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 |
| 250.00 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 |
| 275.00 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 7-11 | 8-0 |
| 300.00 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 | 9-5 | 9-7 |
| 325.00 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 10-11 | 11-1 | 11-3 |
| 350.00 | 10-9 | 11-1 | 11-4 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-10 | 13-0 |
| 375.00 | 12-4 | 12-8 | 13-0 | 13-4 | 13-8 | 14-0 | 14-3 | 14-7 | 14-9 | 15-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 |
| 225.00 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 |
| 250.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 |
| 275.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 |
| 300.00 | 8-0 | 8-1 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 |
| 325.00 | 9-5 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 | 10-6 | 10-7 |
| 350.00 | 10-11 | 11-1 | 11-3 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 |
| 375.00 | 12-6 | 12-8 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 |
| 400.00 | 14-3 | 14-5 | 14-8 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-10 | 16-1 |
| 425.00 | 16-1 | 16-4 | 16-7 | 16-9 | 17-0 | 17-3 | 17-6 | 17-8 | 17-11 | 18-2 |
| 450.00 | 18-0 | 18-3 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-1 | 20-4 |
| 475.00 | 20-1 | 20-5 | 20-8 | 21-0 | 21-3 | 21-7 | 21-10 | 22-1 | 22-5 | 22-8 |
| 500.00 | 22-3 | 22-7 | 22-11 | 23-3 | 23-7 | 23-11 | 24-2 | 24-6 | 24-10 | 25-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-0 |
| 225.00 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 |
| 250.00 | 5-7 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 275.00 | 6-10 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 300.00 | 8-1 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 |
| 325.00 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 | 10-8 |
| 350.00 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 | 12-4 |
| 375.00 | 12-8 | 12-10 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 | 14-2 |
| 400.00 | 14-5 | 14-8 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-11 | 16-0 | 16-2 |
| 425.00 | 16-3 | 16-6 | 16-9 | 17-0 | 17-3 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 |
| 450.00 | 18-3 | 18-6 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-1 | 20-4 | 20-6 |
| 475.00 | 20-4 | 20-8 | 20-11 | 21-3 | 21-7 | 21-10 | 22-2 | 22-5 | 22-8 | 22-10 |
| 500.00 | 22-7 | 22-11 | 23-3 | 23-7 | 23-11 | 24-2 | 24-6 | 24-10 | 25-1 | 25-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 |
| 275.00 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 |
| 300.00 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 |
| 325.00 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 |
| 350.00 | 11-1 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-11 | 12-0 |
| 375.00 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 |
| 400.00 | 14-6 | 14-7 | 14-9 | 14-11 | 15-0 | 15-2 | 15-3 | 15-5 | 15-6 | 15-8 |
| 425.00 | 16-4 | 16-6 | 16-8 | 16-10 | 16-11 | 17-1 | 17-3 | 17-5 | 17-6 | 17-8 |
| 450.00 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-4 | 19-6 | 19-8 | 19-10 |
| 475.00 | 20-5 | 20-7 | 20-10 | 21-0 | 21-2 | 21-4 | 21-7 | 21-9 | 21-11 | 22-1 |
| 500.00 | 22-8 | 22-10 | 23-1 | 23-3 | 23-6 | 23-8 | 23-11 | 24-1 | 24-4 | 24-6 |
| 525.00 | 25-0 | 25-3 | 25-5 | 25-8 | 25-11 | 26-2 | 26-4 | 26-7 | 26-10 | 27-0 |
| 550.00 | 27-5 | 27-8 | 27-11 | 28-2 | 28-5 | 28-8 | 28-11 | 29-2 | 29-5 | 29-8 |
| 575.00 | 30-0 | 30-3 | 30-6 | 30-10 | 31-1 | 31-4 | 31-8 | 31-11 | 32-2 | 32-5 |
| 600.00 | 32-8 | 32-11 | 33-3 | 33-7 | 33-10 | 34-2 | 34-5 | 34-9 | 35-0 | 35-4 |
| 625.00 | 35-5 | 35-9 | 36-1 | 36-5 | 36-9 | 37-1 | 37-5 | 37-9 | 38-0 | 38-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 |
| 275.00 | 6-11 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-5 |
| 300.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 |
| 325.00 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 |
| 350.00 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-1 |
| 375.00 | 12-10 | 12-11 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 |
| 400.00 | 14-7 | 14-9 | 14-10 | 15-0 | 15-2 | 15-3 | 15-5 | 15-7 | 15-8 | 15-9 |
| 425.00 | 16-6 | 16-8 | 16-10 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 | 17-8 | 17-9 |
| 450.00 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-4 | 19-6 | 19-8 | 19-10 | 19-11 |
| 475.00 | 20-7 | 20-10 | 21-0 | 21-2 | 21-4 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 |
| 500.00 | 22-10 | 23-1 | 23-3 | 23-6 | 23-8 | 23-11 | 24-1 | 24-4 | 24-6 | 24-7 |
| 525.00 | 25-2 | 25-5 | 25-8 | 25-11 | 26-2 | 26-4 | 26-7 | 26-10 | 27-0 | 27-2 |
| 550.00 | 27-8 | 27-11 | 28-2 | 28-5 | 28-8 | 28-11 | 29-2 | 29-5 | 29-8 | 29-10 |
| 575.00 | 30-3 | 30-6 | 30-10 | 31-1 | 31-4 | 31-8 | 31-11 | 32-2 | 32-5 | 32-7 |
| 600.00 | 32-11 | 33-3 | 33-6 | 33-10 | 34-2 | 34-6 | 34-9 | 35-1 | 35-4 | 35-6 |
| 625.00 | 35-9 | 36-1 | 36-5 | 36-9 | 37-1 | 37-5 | 37-9 | 38-1 | 38-4 | 38-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 0.74 | 2500 | 0.74 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.26 | 2080 | 0.25 | 2164 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.48 | 1151 | 0.40 | 1392 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.60 | 913 | 0.48 | 1155 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.75 | 733 | 0.58 | 945 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.91 | 606 | 0.71 | 773 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.06 | 518 | 0.85 | 644 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.16 | 474 | 1.00 | 550 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.24 | 445 | 1.14 | 481 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.31 | 420 | 1.28 | 430 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.39 | 396 | 1.39 | 396 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.46 | 376 | 1.46 | 376 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.54 | 358 | 1.54 | 358 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.79 | 308 | 1.79 | 308 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.07 | 266 | 2.07 | 266 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 2.95 | 2500 | 2.95 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.76 | 1254 | 1.58 | 1390 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.50 | 881 | 2.23 | 985 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.74 | 804 | 2.46 | 893 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.97 | 741 | 2.69 | 818 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.20 | 689 | 2.91 | 756 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.41 | 646 | 3.13 | 704 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.62 | 609 | 3.33 | 661 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.79 | 582 | 3.53 | 623 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.90 | 565 | 3.73 | 591 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.01 | 549 | 3.92 | 563 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.12 | 534 | 4.10 | 538 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.24 | 520 | 4.24 | 520 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.63 | 476 | 4.63 | 476 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.08 | 434 | 5.08 | 434 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 6.65 | 2500 | 6.65 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.32 | 932 | 5.03 | 984 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.15 | 806 | 5.85 | 847 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.42 | 773 | 6.11 | 812 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.67 | 743 | 6.36 | 780 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.92 | 717 | 6.61 | 751 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.16 | 693 | 6.84 | 725 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.39 | 671 | 7.08 | 701 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.62 | 651 | 7.31 | 679 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.80 | 636 | 7.53 | 659 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.94 | 625 | 7.75 | 641 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.07 | 615 | 7.96 | 624 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.20 | 605 | 8.17 | 608 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.69 | 572 | 8.69 | 572 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.25 | 537 | 9.25 | 537 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 11.84 | 2500 | 11.84 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 10.50 | 841 | 10.20 | 865 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.33 | 779 | 11.02 | 801 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.60 | 761 | 11.28 | 782 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.86 | 744 | 11.54 | 765 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.12 | 729 | 11.80 | 749 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.38 | 714 | 12.04 | 733 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.62 | 700 | 12.29 | 719 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.87 | 687 | 12.53 | 705 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.11 | 674 | 12.77 | 692 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.26 | 667 | 13.00 | 680 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.41 | 659 | 13.24 | 668 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.55 | 652 | 13.46 | 657 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.09 | 628 | 14.09 | 628 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.73 | 601 | 14.73 | 601 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 18.54 | 2500 | 18.54 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.19 | 804 | 16.90 | 817 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 18.03 | 767 | 17.71 | 780 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 18.30 | 756 | 17.97 | 769 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 18.56 | 745 | 18.24 | 758 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 18.83 | 735 | 18.49 | 748 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.09 | 725 | 18.75 | 738 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.34 | 715 | 19.00 | 728 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.60 | 706 | 19.25 | 719 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.85 | 697 | 19.50 | 710 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.03 | 691 | 19.74 | 701 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.19 | 686 | 19.98 | 693 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.35 | 680 | 20.22 | 684 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.92 | 662 | 20.92 | 662 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.60 | 641 | 21.60 | 641 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 |
| 125.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-9 | 2-0 | 2-2 |
| 150.00 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-2 |
| 175.00 | 1-0 | 1-3 | 1-6 | 1-9 | 2-2 | 2-7 | 3-1 | 3-6 | 3-11 | 4-3 |
| 200.00 | 1-4 | 1-7 | 1-11 | 2-4 | 2-10 | 3-5 | 4-0 | 4-7 | 5-1 | 5-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 125.00 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 |
| 150.00 | 0-10 | 1-1 | 1-4 | 1-8 | 2-0 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 |
| 175.00 | 1-2 | 1-6 | 1-10 | 2-4 | 2-9 | 3-3 | 3-7 | 3-9 | 4-0 | 4-3 |
| 200.00 | 1-6 | 1-11 | 2-5 | 3-0 | 3-8 | 4-3 | 4-8 | 4-11 | 5-3 | 5-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.70

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 |
| 150.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 |
| 175.00 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 |
| 225.00 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 4-11 |
| 250.00 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 | 4-11 | 5-3 | 5-6 | 5-10 | 6-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 |
| 150.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-2 | 2-3 |
| 175.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-1 |
| 200.00 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 | 4-0 |
| 225.00 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 4-11 | 5-1 |
| 250.00 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-1 | 6-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 |
| 225.00 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 |
| 250.00 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 |
| 275.00 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 |
| 300.00 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-6 | 7-9 |
| 325.00 | 6-7 | 6-10 | 7-2 | 7-6 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 | 9-1 |
| 350.00 | 7-7 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-7 |
| 375.00 | 8-9 | 9-2 | 9-7 | 9-11 | 10-4 | 10-8 | 11-1 | 11-5 | 11-9 | 12-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 175.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 |
| 200.00 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-6 |
| 225.00 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 |
| 250.00 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-6 |
| 275.00 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-8 |
| 300.00 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 | 7-11 |
| 325.00 | 6-11 | 7-3 | 7-6 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-2 | 9-4 |
| 350.00 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-7 | 10-10 |
| 375.00 | 9-2 | 9-7 | 10-0 | 10-5 | 10-10 | 11-2 | 11-7 | 11-11 | 12-2 | 12-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS



OH810.72

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 |
| 250.00 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 |
| 275.00 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 |
| 300.00 | 6-1 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 |
| 325.00 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 |
| 350.00 | 8-3 | 8-5 | 8-8 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 |
| 375.00 | 9-5 | 9-8 | 9-11 | 10-2 | 10-4 | 10-7 | 10-10 | 11-0 | 11-3 | 11-5 |
| 400.00 | 10-9 | 11-0 | 11-3 | 11-6 | 11-10 | 12-1 | 12-3 | 12-6 | 12-9 | 13-0 |
| 425.00 | 12-2 | 12-5 | 12-9 | 13-0 | 13-4 | 13-7 | 13-11 | 14-2 | 14-5 | 14-8 |
| 450.00 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-10 | 16-2 | 16-6 |
| 475.00 | 15-2 | 15-7 | 15-11 | 16-3 | 16-8 | 17-0 | 17-4 | 17-8 | 18-0 | 18-4 |
| 500.00 | 16-10 | 17-3 | 17-8 | 18-1 | 18-5 | 18-10 | 19-3 | 19-7 | 20-0 | 20-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 225.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 |
| 250.00 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 |
| 275.00 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 |
| 300.00 | 6-3 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-4 | 7-5 |
| 325.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 |
| 350.00 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 |
| 375.00 | 9-9 | 10-0 | 10-2 | 10-5 | 10-8 | 10-10 | 11-1 | 11-4 | 11-6 | 11-8 |
| 400.00 | 11-1 | 11-4 | 11-7 | 11-10 | 12-1 | 12-5 | 12-7 | 12-10 | 13-1 | 13-3 |
| 425.00 | 12-6 | 12-10 | 13-1 | 13-5 | 13-8 | 14-0 | 14-3 | 14-6 | 14-10 | 15-0 |
| 450.00 | 14-0 | 14-4 | 14-8 | 15-0 | 15-4 | 15-8 | 16-0 | 16-4 | 16-7 | 16-9 |
| 475.00 | 15-7 | 16-0 | 16-4 | 16-9 | 17-1 | 17-6 | 17-10 | 18-2 | 18-6 | 18-8 |
| 500.00 | 17-3 | 17-9 | 18-2 | 18-7 | 18-11 | 19-4 | 19-9 | 20-1 | 20-6 | 20-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 |
| 275.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 300.00 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 325.00 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 |
| 350.00 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 |
| 375.00 | 9-10 | 9-11 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-10 | 10-11 | 11-1 |
| 400.00 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-7 |
| 425.00 | 12-7 | 12-9 | 13-0 | 13-2 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-3 |
| 450.00 | 14-1 | 14-4 | 14-7 | 14-9 | 15-0 | 15-2 | 15-5 | 15-7 | 15-9 | 16-0 |
| 475.00 | 15-9 | 16-0 | 16-3 | 16-5 | 16-8 | 16-11 | 17-2 | 17-4 | 17-7 | 17-10 |
| 500.00 | 17-5 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 19-0 | 19-3 | 19-6 | 19-9 |
| 525.00 | 19-3 | 19-6 | 19-10 | 20-1 | 20-5 | 20-8 | 20-11 | 21-3 | 21-6 | 21-9 |
| 550.00 | 21-1 | 21-5 | 21-9 | 22-1 | 22-5 | 22-8 | 23-0 | 23-4 | 23-7 | 23-11 |
| 575.00 | 23-1 | 23-5 | 23-9 | 24-2 | 24-6 | 24-10 | 25-2 | 25-6 | 25-10 | 26-1 |
| 600.00 | 25-2 | 25-6 | 25-11 | 26-3 | 26-8 | 27-0 | 27-5 | 27-9 | 28-1 | 28-5 |
| 625.00 | 27-3 | 27-8 | 28-1 | 28-6 | 28-11 | 29-4 | 29-9 | 30-1 | 30-6 | 30-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 |
| 275.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 300.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-2 |
| 325.00 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-5 | 8-5 |
| 350.00 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 |
| 375.00 | 10-0 | 10-2 | 10-3 | 10-5 | 10-7 | 10-9 | 10-10 | 11-0 | 11-2 | 11-3 |
| 400.00 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 |
| 425.00 | 12-10 | 13-0 | 13-3 | 13-5 | 13-7 | 13-9 | 14-0 | 14-2 | 14-4 | 14-6 |
| 450.00 | 14-4 | 14-7 | 14-10 | 15-0 | 15-3 | 15-5 | 15-8 | 15-10 | 16-1 | 16-3 |
| 475.00 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 | 17-3 | 17-5 | 17-8 | 17-11 | 18-1 |
| 500.00 | 17-9 | 18-0 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-0 |
| 525.00 | 19-7 | 19-11 | 20-2 | 20-6 | 20-9 | 21-1 | 21-4 | 21-7 | 21-11 | 22-1 |
| 550.00 | 21-6 | 21-10 | 22-2 | 22-6 | 22-9 | 23-1 | 23-5 | 23-9 | 24-0 | 24-3 |
| 575.00 | 23-6 | 23-10 | 24-3 | 24-7 | 24-11 | 25-3 | 25-7 | 25-11 | 26-3 | 26-6 |
| 600.00 | 25-7 | 26-0 | 26-4 | 26-9 | 27-2 | 27-6 | 27-11 | 28-3 | 28-7 | 28-10 |
| 625.00 | 27-9 | 28-2 | 28-7 | 29-0 | 29-5 | 29-10 | 30-3 | 30-8 | 31-1 | 31-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 0.61 | 3000 | 0.61 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.20 | 2702 | 0.20 | 2771 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.33 | 1689 | 0.28 | 1991 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.40 | 1380 | 0.32 | 1729 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.50 | 1103 | 0.37 | 1472 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.63 | 875 | 0.45 | 1227 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.78 | 706 | 0.55 | 1005 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.92 | 600 | 0.67 | 820 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.99 | 557 | 0.81 | 678 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.06 | 518 | 0.96 | 574 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.14 | 484 | 1.10 | 499 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.22 | 453 | 1.22 | 453 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.29 | 426 | 1.29 | 426 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.56 | 352 | 1.56 | 352 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.87 | 295 | 1.87 | 295 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 2.46 | 3000 | 2.46 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.13 | 1945 | 1.03 | 2138 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.74 | 1263 | 1.47 | 1500 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.99 | 1108 | 1.66 | 1325 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.24 | 984 | 1.87 | 1174 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.48 | 886 | 2.10 | 1049 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.73 | 808 | 2.33 | 945 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.96 | 744 | 2.56 | 860 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.18 | 692 | 2.78 | 791 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.30 | 667 | 3.00 | 733 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.42 | 644 | 3.22 | 685 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.54 | 623 | 3.42 | 644 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.65 | 603 | 3.62 | 608 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.08 | 541 | 4.08 | 541 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.56 | 484 | 4.56 | 484 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 5.54 | 3000 | 5.54 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.71 | 1336 | 3.35 | 1479 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.67 | 1060 | 4.23 | 1170 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.98 | 995 | 4.53 | 1094 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.28 | 939 | 4.82 | 1028 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.57 | 890 | 5.10 | 971 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.85 | 848 | 5.38 | 921 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.12 | 810 | 5.66 | 876 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.38 | 777 | 5.92 | 837 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.62 | 749 | 6.18 | 802 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.77 | 733 | 6.43 | 771 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.92 | 717 | 6.68 | 743 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.06 | 702 | 6.91 | 717 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.59 | 654 | 7.59 | 654 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.20 | 606 | 8.20 | 606 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 9.86 | 3000 | 9.86 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.93 | 1111 | 7.48 | 1178 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.95 | 985 | 8.47 | 1041 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.27 | 951 | 8.78 | 1004 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.58 | 920 | 9.09 | 970 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.89 | 892 | 9.40 | 939 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 10.19 | 866 | 9.69 | 910 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 10.48 | 842 | 9.98 | 884 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 10.76 | 820 | 10.27 | 859 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.04 | 799 | 10.55 | 837 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.26 | 784 | 10.82 | 816 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.42 | 773 | 11.09 | 796 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 11.59 | 762 | 11.35 | 778 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.19 | 725 | 12.19 | 725 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.89 | 686 | 12.89 | 686 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.76

TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.475 | 15.42 | 3000 | 15.42 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.49 | 1023 | 13.02 | 1059 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.50 | 952 | 14.01 | 985 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.82 | 931 | 14.33 | 963 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 15.14 | 911 | 14.64 | 942 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 15.46 | 893 | 14.95 | 923 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 15.76 | 876 | 15.25 | 905 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.07 | 859 | 15.55 | 887 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.37 | 844 | 15.85 | 871 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.66 | 829 | 16.14 | 855 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.93 | 816 | 16.43 | 841 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.11 | 807 | 16.71 | 827 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.29 | 799 | 16.99 | 813 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.94 | 771 | 17.94 | 771 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 18.70 | 739 | 18.70 | 739 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-3 | 1-6 | 1-9 |
| 150.00 | 0-7 | 0-7 | 0-9 | 0-10 | 1-0 | 1-3 | 1-6 | 1-10 | 2-2 | 2-6 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-8 | 2-1 | 2-6 | 2-11 | 3-5 |
| 200.00 | 1-0 | 1-1 | 1-3 | 1-6 | 1-10 | 2-2 | 2-8 | 3-3 | 3-10 | 4-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-9 | 1-0 | 1-3 | 1-5 | 1-7 | 1-8 | 1-9 |
| 150.00 | 0-7 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 2-1 | 2-3 | 2-5 | 2-7 |
| 175.00 | 0-10 | 1-0 | 1-3 | 1-6 | 1-11 | 2-5 | 2-10 | 3-0 | 3-3 | 3-6 |
| 200.00 | 1-1 | 1-4 | 1-7 | 2-0 | 2-6 | 3-1 | 3-8 | 3-11 | 4-3 | 4-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS



OH810.78

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 |
| 175.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 |
| 200.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 |
| 225.00 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 |
| 250.00 | 2-0 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-10 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 |
| 150.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 175.00 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-7 |
| 200.00 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-4 | 3-5 |
| 225.00 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-2 | 4-4 |
| 250.00 | 2-4 | 2-9 | 3-1 | 3-6 | 3-11 | 4-3 | 4-7 | 5-0 | 5-2 | 5-4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 |
| 225.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 |
| 250.00 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-6 |
| 275.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 |
| 300.00 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 |
| 325.00 | 4-7 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 | 7-3 | 7-7 |
| 350.00 | 5-4 | 5-9 | 6-2 | 6-7 | 6-11 | 7-4 | 7-8 | 8-1 | 8-5 | 8-9 |
| 375.00 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-5 | 8-10 | 9-3 | 9-8 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 |
| 175.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 200.00 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 |
| 225.00 | 2-5 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 |
| 250.00 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 |
| 275.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-8 |
| 300.00 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-5 | 6-7 | 6-9 |
| 325.00 | 5-1 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-6 | 7-9 | 7-11 |
| 350.00 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-4 | 8-8 | 9-0 | 9-3 |
| 375.00 | 6-10 | 7-4 | 7-9 | 8-3 | 8-8 | 9-2 | 9-7 | 10-0 | 10-4 | 10-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.80

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 |
| 225.00 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 250.00 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 |
| 275.00 | 3-10 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 |
| 300.00 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 325.00 | 5-5 | 5-7 | 5-10 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 |
| 350.00 | 6-3 | 6-6 | 6-9 | 7-0 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-3 |
| 375.00 | 7-2 | 7-5 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 |
| 400.00 | 8-2 | 8-6 | 8-9 | 9-1 | 9-5 | 9-8 | 10-0 | 10-3 | 10-7 | 10-10 |
| 425.00 | 9-2 | 9-7 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 |
| 450.00 | 10-4 | 10-9 | 11-1 | 11-6 | 11-11 | 12-3 | 12-8 | 13-0 | 13-4 | 13-8 |
| 475.00 | 11-6 | 11-11 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-11 | 15-3 |
| 500.00 | 12-9 | 13-3 | 13-9 | 14-3 | 14-8 | 15-2 | 15-7 | 16-1 | 16-6 | 16-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 |
| 225.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 250.00 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 |
| 275.00 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-4 |
| 300.00 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 |
| 325.00 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 |
| 350.00 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-7 |
| 375.00 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 | 9-8 | 9-11 |
| 400.00 | 8-7 | 8-11 | 9-3 | 9-7 | 9-11 | 10-2 | 10-6 | 10-9 | 11-1 | 11-3 |
| 425.00 | 9-9 | 10-1 | 10-6 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 | 12-6 | 12-9 |
| 450.00 | 10-11 | 11-4 | 11-9 | 12-2 | 12-6 | 12-11 | 13-3 | 13-8 | 14-0 | 14-3 |
| 475.00 | 12-2 | 12-7 | 13-1 | 13-6 | 13-11 | 14-4 | 14-9 | 15-2 | 15-7 | 15-11 |
| 500.00 | 13-6 | 14-0 | 14-6 | 15-0 | 15-5 | 15-11 | 16-5 | 16-10 | 17-3 | 17-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 |
| 275.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 |
| 300.00 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 |
| 325.00 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 |
| 350.00 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 | 7-11 | 8-1 |
| 375.00 | 7-8 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 |
| 400.00 | 8-9 | 9-0 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 |
| 425.00 | 9-11 | 10-1 | 10-4 | 10-7 | 10-10 | 11-0 | 11-3 | 11-5 | 11-8 | 11-10 |
| 450.00 | 11-1 | 11-4 | 11-7 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 |
| 475.00 | 12-4 | 12-8 | 12-11 | 13-3 | 13-6 | 13-9 | 14-0 | 14-4 | 14-7 | 14-10 |
| 500.00 | 13-8 | 14-0 | 14-4 | 14-8 | 14-11 | 15-3 | 15-7 | 15-10 | 16-2 | 16-5 |
| 525.00 | 15-1 | 15-5 | 15-10 | 16-2 | 16-6 | 16-10 | 17-2 | 17-6 | 17-10 | 18-1 |
| 550.00 | 16-7 | 16-11 | 17-4 | 17-9 | 18-1 | 18-6 | 18-10 | 19-2 | 19-6 | 19-11 |
| 575.00 | 18-1 | 18-6 | 18-11 | 19-4 | 19-9 | 20-2 | 20-7 | 21-0 | 21-4 | 21-9 |
| 600.00 | 19-9 | 20-2 | 20-8 | 21-1 | 21-6 | 22-0 | 22-5 | 22-10 | 23-3 | 23-8 |
| 625.00 | 21-5 | 21-11 | 22-5 | 22-11 | 23-4 | 23-10 | 24-4 | 24-9 | 25-3 | 25-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 275.00 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 300.00 | 5-1 | 5-3 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 |
| 325.00 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 |
| 350.00 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 | 8-3 |
| 375.00 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 |
| 400.00 | 9-1 | 9-3 | 9-6 | 9-8 | 9-11 | 10-1 | 10-3 | 10-6 | 10-8 | 10-10 |
| 425.00 | 10-3 | 10-6 | 10-8 | 10-11 | 11-2 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 |
| 450.00 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 |
| 475.00 | 12-9 | 13-1 | 13-5 | 13-8 | 13-11 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 |
| 500.00 | 14-2 | 14-6 | 14-10 | 15-2 | 15-5 | 15-9 | 16-1 | 16-4 | 16-8 | 16-11 |
| 525.00 | 15-7 | 16-0 | 16-4 | 16-8 | 17-0 | 17-5 | 17-9 | 18-1 | 18-4 | 18-8 |
| 550.00 | 17-2 | 17-7 | 17-11 | 18-4 | 18-8 | 19-1 | 19-5 | 19-10 | 20-2 | 20-6 |
| 575.00 | 18-9 | 19-2 | 19-7 | 20-0 | 20-5 | 20-10 | 21-3 | 21-8 | 22-1 | 22-5 |
| 600.00 | 20-5 | 20-11 | 21-4 | 21-10 | 22-3 | 22-9 | 23-2 | 23-7 | 24-0 | 24-5 |
| 625.00 | 22-2 | 22-8 | 23-2 | 23-8 | 24-2 | 24-8 | 25-1 | 25-7 | 26-1 | 26-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 4.73 | 1000 | 4.73 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.60 | 121 | 4.57 | 121 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.75 | 117 | 4.72 | 117 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.79 | 116 | 4.77 | 116 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.83 | 115 | 4.81 | 115 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.86 | 114 | 4.85 | 114 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.89 | 114 | 4.89 | 114 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.92 | 113 | 4.92 | 113 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.94 | 112 | 4.94 | 112 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 4.97 | 112 | 4.97 | 112 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.00 | 111 | 5.00 | 111 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.02 | 111 | 5.02 | 111 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.05 | 110 | 5.05 | 110 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.15 | 108 | 5.15 | 108 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.27 | 106 | 5.27 | 106 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 19.45 | 1000 | 19.45 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.33 | 118 | 19.30 | 118 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.47 | 117 | 19.45 | 117 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.52 | 117 | 19.50 | 117 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.56 | 117 | 19.54 | 117 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.59 | 117 | 19.58 | 117 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.62 | 116 | 19.62 | 116 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.64 | 116 | 19.64 | 116 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.67 | 116 | 19.67 | 116 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.70 | 116 | 19.70 | 116 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.73 | 116 | 19.73 | 116 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.76 | 116 | 19.76 | 116 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.79 | 116 | 19.79 | 116 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 19.89 | 115 | 19.89 | 115 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 20.02 | 114 | 20.02 | 114 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 46.20 | 1000 | 46.20 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.07 | 118 | 46.04 | 118 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.22 | 117 | 46.19 | 117 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.26 | 117 | 46.24 | 117 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.30 | 117 | 46.28 | 117 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.33 | 117 | 46.32 | 117 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.36 | 117 | 46.36 | 117 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.39 | 117 | 46.39 | 117 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.42 | 117 | 46.42 | 117 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.44 | 117 | 46.44 | 117 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.47 | 117 | 46.47 | 117 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.50 | 117 | 46.50 | 117 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.53 | 117 | 46.53 | 117 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.63 | 116 | 46.63 | 116 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 46.76 | 116 | 46.76 | 116 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2- 7 | 2- 8 | 2- 8 | 2- 8 | 2- 9 | 2- 9 | 2- 9 | 2- 9 | 2- 9 | 2-10 |
| 100.00 | 4- 8 | 4- 9 | 4- 9 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5- 0 | 5- 0 |
| 125.00 | 7- 4 | 7- 5 | 7- 6 | 7- 6 | 7- 7 | 7- 8 | 7- 8 | 7- 9 | 7- 9 | 7-10 |
| 150.00 | 10- 7 | 10- 8 | 10- 9 | 10-10 | 11- 0 | 11- 0 | 11- 1 | 11- 2 | 11- 3 | 11- 3 |
| 175.00 | 14- 5 | 14- 7 | 14- 8 | 14-10 | 15- 0 | 15- 1 | 15- 2 | 15- 3 | 15- 4 | 15- 5 |
| 200.00 | 18-10 | 19- 1 | 19- 3 | 19- 5 | 19- 7 | 19- 9 | 19-10 | 20- 0 | 20- 1 | 20- 2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2- 8 | 2- 8 | 2- 8 | 2- 9 | 2- 9 | 2- 9 | 2- 9 | 2- 9 | 2- 9 | 2-10 |
| 100.00 | 4- 8 | 4- 9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5- 0 | 5- 0 |
| 125.00 | 7- 4 | 7- 5 | 7- 6 | 7- 7 | 7- 7 | 7- 8 | 7- 8 | 7- 9 | 7- 9 | 7-10 |
| 150.00 | 10- 8 | 10- 9 | 10-10 | 10-11 | 11- 0 | 11- 0 | 11- 1 | 11- 2 | 11- 3 | 11- 3 |
| 175.00 | 14- 6 | 14- 8 | 14- 9 | 14-11 | 15- 0 | 15- 1 | 15- 2 | 15- 3 | 15- 4 | 15- 5 |
| 200.00 | 19- 0 | 19- 2 | 19- 4 | 19- 6 | 19- 7 | 19- 9 | 19-10 | 20- 0 | 20- 1 | 20- 2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS



OH810.85

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 |
| 125.00 | 7- 6 | 7- 6 | 7- 7 | 7- 7 | 7- 7 | 7- 7 | 7- 7 | 7- 8 | 7- 8 | 7- 8 |
| 150.00 | 10-10 | 10-11 | 10-11 | 10-11 | 10-11 | 11- 0 | 11- 0 | 11- 0 | 11- 0 | 11- 0 |
| 175.00 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 | 15- 0 | 15- 0 | 15- 0 | 15- 0 | 15- 1 |
| 200.00 | 19- 5 | 19- 5 | 19- 6 | 19- 6 | 19- 7 | 19- 7 | 19- 8 | 19- 8 | 19- 8 | 19- 9 |
| 225.00 | 24- 8 | 24- 8 | 24- 9 | 24-10 | 24-10 | 24-11 | 24-11 | 25- 0 | 25- 0 | 25- 1 |
| 250.00 | 30- 6 | 30- 7 | 30- 8 | 30- 9 | 30-10 | 30-10 | 30-11 | 30-11 | 31- 0 | 31- 1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 |
| 125.00 | 7- 6 | 7- 7 | 7- 7 | 7- 7 | 7- 7 | 7- 7 | 7- 7 | 7- 8 | 7- 8 | 7- 8 |
| 150.00 | 10-10 | 10-11 | 10-11 | 10-11 | 10-11 | 11- 0 | 11- 0 | 11- 0 | 11- 0 | 11- 0 |
| 175.00 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 | 15- 0 | 15- 0 | 15- 0 | 15- 0 | 15- 1 |
| 200.00 | 19- 5 | 19- 6 | 19- 6 | 19- 7 | 19- 7 | 19- 7 | 19- 8 | 19- 8 | 19- 8 | 19- 9 |
| 225.00 | 24- 8 | 24- 9 | 24- 9 | 24-10 | 24-10 | 24-11 | 24-11 | 25- 0 | 25- 0 | 25- 1 |
| 250.00 | 30- 7 | 30- 8 | 30- 9 | 30- 9 | 30-10 | 30-10 | 30-11 | 30-11 | 31- 0 | 31- 1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 11- 3 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 |
| 175.00 | 15- 5 | 15- 5 | 15- 5 | 15- 5 | 15- 5 | 15- 6 | 15- 6 | 15- 6 | 15- 6 | 15- 6 |
| 200.00 | 20- 2 | 20- 2 | 20- 3 | 20- 3 | 20- 3 | 20- 3 | 20- 3 | 20- 3 | 20- 4 | 20- 4 |
| 225.00 | 25- 7 | 25- 8 | 25- 8 | 25- 8 | 25- 9 | 25- 9 | 25- 9 | 25- 9 | 25- 9 | 25-10 |
| 250.00 | 31- 9 | 31- 9 | 31-10 | 31-10 | 31-11 | 31-11 | 31-11 | 31-11 | 32- 0 | 32- 0 |
| 275.00 | 38- 7 | 38- 8 | 38- 8 | 38- 8 | 38- 9 | 38- 9 | 38-10 | 38-10 | 38-10 | 38-10 |
| 300.00 | 46- 2 | 46- 2 | 46- 3 | 46- 3 | 46- 4 | 46- 4 | 46- 5 | 46- 5 | 46- 5 | 46- 6 |
| 325.00 | 54- 5 | 54- 6 | 54- 7 | 54- 7 | 54- 8 | 54- 8 | 54- 9 | 54- 9 | 54- 9 | 54-10 |
| 350.00 | 63- 6 | 63- 7 | 63- 7 | 63- 8 | 63- 9 | 63- 9 | 63-10 | 63-10 | 63-11 | 63-11 |
| 375.00 | 73- 4 | 73- 5 | 73- 6 | 73- 6 | 73- 7 | 73- 8 | 73- 8 | 73- 9 | 73-10 | 73-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 11- 3 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 | 11- 4 |
| 175.00 | 15- 5 | 15- 5 | 15- 5 | 15- 5 | 15- 5 | 15- 6 | 15- 6 | 15- 6 | 15- 6 | 15- 6 |
| 200.00 | 20- 2 | 20- 2 | 20- 3 | 20- 3 | 20- 3 | 20- 3 | 20- 3 | 20- 3 | 20- 4 | 20- 4 |
| 225.00 | 25- 8 | 25- 8 | 25- 8 | 25- 8 | 25- 9 | 25- 9 | 25- 9 | 25- 9 | 25- 9 | 25-10 |
| 250.00 | 31- 9 | 31-10 | 31-10 | 31-10 | 31-11 | 31-11 | 31-11 | 31-11 | 32- 0 | 32- 0 |
| 275.00 | 38- 7 | 38- 8 | 38- 8 | 38- 9 | 38- 9 | 38- 9 | 38-10 | 38-10 | 38-10 | 38-10 |
| 300.00 | 46- 2 | 46- 3 | 46- 3 | 46- 4 | 46- 4 | 46- 4 | 46- 5 | 46- 5 | 46- 5 | 46- 6 |
| 325.00 | 54- 6 | 54- 6 | 54- 7 | 54- 7 | 54- 8 | 54- 8 | 54- 9 | 54- 9 | 54- 9 | 54-10 |
| 350.00 | 63- 6 | 63- 7 | 63- 8 | 63- 8 | 63- 9 | 63- 9 | 63-10 | 63-10 | 63-11 | 63-11 |
| 375.00 | 73- 4 | 73- 5 | 73- 6 | 73- 7 | 73- 7 | 73- 8 | 73- 8 | 73- 9 | 73-10 | 73-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.87

TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 3.14 | 1500 | 3.14 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.88 | 191 | 2.80 | 197 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.09 | 179 | 3.04 | 181 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.15 | 175 | 3.11 | 178 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.21 | 172 | 3.17 | 174 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.25 | 170 | 3.23 | 171 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.29 | 168 | 3.29 | 168 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.33 | 166 | 3.33 | 166 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.37 | 164 | 3.37 | 164 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.41 | 162 | 3.41 | 162 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.45 | 160 | 3.45 | 160 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.49 | 158 | 3.49 | 158 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.53 | 157 | 3.53 | 157 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.67 | 151 | 3.67 | 151 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.83 | 145 | 3.83 | 145 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 12.70 | 1500 | 12.70 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.45 | 179 | 12.37 | 181 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.65 | 177 | 12.60 | 177 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.71 | 176 | 12.67 | 176 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.77 | 175 | 12.73 | 176 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.82 | 174 | 12.79 | 175 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.86 | 174 | 12.85 | 174 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.90 | 173 | 12.90 | 173 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.95 | 173 | 12.95 | 173 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 12.99 | 172 | 12.99 | 172 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.03 | 172 | 13.03 | 172 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.07 | 171 | 13.07 | 171 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.11 | 171 | 13.11 | 171 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.27 | 169 | 13.27 | 169 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.45 | 167 | 13.45 | 167 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 29.18 | 1500 | 29.18 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 28.93 | 177 | 28.86 | 178 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.13 | 176 | 29.09 | 177 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.20 | 176 | 29.15 | 176 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.26 | 176 | 29.21 | 176 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.30 | 175 | 29.27 | 176 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.34 | 175 | 29.34 | 175 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.39 | 175 | 29.39 | 175 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.43 | 175 | 29.43 | 175 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.47 | 174 | 29.47 | 174 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.51 | 174 | 29.51 | 174 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.56 | 174 | 29.56 | 174 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.60 | 174 | 29.60 | 174 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.76 | 173 | 29.76 | 173 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 29.95 | 172 | 29.95 | 172 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 53.58 | 1500 | 53.58 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.34 | 177 | 53.26 | 177 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.54 | 176 | 53.49 | 176 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.60 | 176 | 53.56 | 176 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.66 | 176 | 53.62 | 176 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.70 | 176 | 53.68 | 176 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.75 | 176 | 53.74 | 176 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.79 | 175 | 53.79 | 175 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.84 | 175 | 53.84 | 175 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.88 | 175 | 53.88 | 175 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.92 | 175 | 53.92 | 175 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 53.96 | 175 | 53.96 | 175 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 54.01 | 175 | 54.01 | 175 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 54.16 | 174 | 54.16 | 174 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 54.35 | 174 | 54.35 | 174 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 87.81 | 1500 | 87.81 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 87.56 | 176 | 87.49 | 177 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 87.76 | 176 | 87.72 | 176 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 87.83 | 176 | 87.78 | 176 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 87.89 | 176 | 87.84 | 176 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 87.93 | 176 | 87.90 | 176 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 87.97 | 176 | 87.97 | 176 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 88.02 | 176 | 88.02 | 176 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 88.06 | 176 | 88.06 | 176 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 88.10 | 176 | 88.10 | 176 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 88.14 | 176 | 88.14 | 176 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 88.19 | 175 | 88.19 | 175 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 88.23 | 175 | 88.23 | 175 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 88.39 | 175 | 88.39 | 175 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 88.58 | 175 | 88.58 | 175 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 |
| 100.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 |
| 125.00 | 4-8 | 4-9 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 |
| 150.00 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 |
| 175.00 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 |
| 200.00 | 11-11 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-5 | 13-7 | 13-9 | 13-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 |
| 100.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 |
| 125.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 |
| 150.00 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 |
| 175.00 | 9-3 | 9-6 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 |
| 200.00 | 12-2 | 12-5 | 12-8 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS



OH810.91

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-1 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 |
| 125.00 | 4-11 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 |
| 150.00 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-3 | 7-4 |
| 175.00 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 |
| 200.00 | 12-6 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 |
| 225.00 | 15-10 | 16-0 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-6 |
| 250.00 | 19-8 | 19-9 | 19-10 | 19-11 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 |
| 125.00 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 |
| 150.00 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-3 | 7-4 |
| 175.00 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 |
| 200.00 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 |
| 225.00 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-6 |
| 250.00 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.92

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 |
| 175.00 | 9-10 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 9-11 | 9-11 | 10-0 |
| 200.00 | 12-10 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-0 |
| 225.00 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 |
| 250.00 | 20-1 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 |
| 275.00 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-7 | 24-8 | 24-8 | 24-9 | 24-9 |
| 300.00 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 | 29-5 | 29-5 | 29-6 | 29-6 |
| 325.00 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-7 | 34-7 | 34-8 | 34-9 |
| 350.00 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-4 |
| 375.00 | 45-8 | 45-9 | 45-10 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-2 | 7-3 | 7-3 | 7-3 | 7-3 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 |
| 175.00 | 9-10 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 9-11 | 9-11 | 10-0 |
| 200.00 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-0 |
| 225.00 | 16-3 | 16-4 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 |
| 250.00 | 20-1 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 |
| 275.00 | 24-5 | 24-5 | 24-6 | 24-6 | 24-7 | 24-7 | 24-8 | 24-8 | 24-9 | 24-9 |
| 300.00 | 29-1 | 29-2 | 29-2 | 29-3 | 29-4 | 29-4 | 29-5 | 29-5 | 29-6 | 29-6 |
| 325.00 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-6 | 34-7 | 34-7 | 34-8 | 34-9 |
| 350.00 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-1 | 40-2 | 40-3 | 40-4 | 40-4 |
| 375.00 | 45-9 | 45-10 | 45-11 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 13-2 | 13-2 | 13-2 | 13-2 | 13-2 | 13-2 | 13-3 | 13-3 | 13-3 | 13-3 |
| 225.00 | 16-8 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 |
| 250.00 | 20-7 | 20-7 | 20-8 | 20-8 | 20-8 | 20-8 | 20-9 | 20-9 | 20-9 | 20-9 |
| 275.00 | 24-11 | 25-0 | 25-0 | 25-0 | 25-1 | 25-1 | 25-1 | 25-2 | 25-2 | 25-2 |
| 300.00 | 29-9 | 29-10 | 29-10 | 29-10 | 29-11 | 29-11 | 29-11 | 30-0 | 30-0 | 30-0 |
| 325.00 | 35-0 | 35-0 | 35-1 | 35-1 | 35-2 | 35-2 | 35-3 | 35-3 | 35-3 | 35-4 |
| 350.00 | 40-8 | 40-9 | 40-9 | 40-10 | 40-11 | 40-11 | 41-0 | 41-0 | 41-0 | 41-1 |
| 375.00 | 46-10 | 46-11 | 46-11 | 47-0 | 47-1 | 47-1 | 47-2 | 47-2 | 47-3 | 47-3 |
| 400.00 | 53-5 | 53-6 | 53-7 | 53-7 | 53-8 | 53-9 | 53-10 | 53-10 | 53-11 | 53-11 |
| 425.00 | 60-6 | 60-7 | 60-8 | 60-8 | 60-9 | 60-10 | 60-11 | 60-11 | 61-0 | 61-1 |
| 450.00 | 68-0 | 68-1 | 68-2 | 68-3 | 68-4 | 68-5 | 68-6 | 68-7 | 68-7 | 68-8 |
| 475.00 | 76-0 | 76-2 | 76-3 | 76-4 | 76-5 | 76-6 | 76-7 | 76-8 | 76-8 | 76-9 |
| 500.00 | 84-6 | 84-8 | 84-9 | 84-10 | 84-11 | 85-1 | 85-2 | 85-3 | 85-3 | 85-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 13-2 | 13-2 | 13-2 | 13-2 | 13-2 | 13-2 | 13-3 | 13-3 | 13-3 | 13-3 |
| 225.00 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 |
| 250.00 | 20-7 | 20-8 | 20-8 | 20-8 | 20-8 | 20-8 | 20-9 | 20-9 | 20-9 | 20-9 |
| 275.00 | 25-0 | 25-0 | 25-0 | 25-1 | 25-1 | 25-1 | 25-1 | 25-2 | 25-2 | 25-2 |
| 300.00 | 29-9 | 29-10 | 29-10 | 29-11 | 29-11 | 29-11 | 29-11 | 30-0 | 30-0 | 30-0 |
| 325.00 | 35-0 | 35-1 | 35-1 | 35-2 | 35-2 | 35-2 | 35-3 | 35-3 | 35-3 | 35-4 |
| 350.00 | 40-9 | 40-9 | 40-10 | 40-10 | 40-11 | 40-11 | 41-0 | 41-0 | 41-0 | 41-1 |
| 375.00 | 46-10 | 46-11 | 47-0 | 47-0 | 47-1 | 47-1 | 47-2 | 47-2 | 47-3 | 47-3 |
| 400.00 | 53-6 | 53-6 | 53-7 | 53-8 | 53-8 | 53-9 | 53-10 | 53-10 | 53-11 | 53-11 |
| 425.00 | 60-7 | 60-7 | 60-8 | 60-9 | 60-10 | 60-10 | 60-11 | 60-11 | 61-0 | 61-1 |
| 450.00 | 68-1 | 68-2 | 68-3 | 68-4 | 68-5 | 68-5 | 68-6 | 68-7 | 68-7 | 68-8 |
| 475.00 | 76-1 | 76-2 | 76-4 | 76-5 | 76-5 | 76-6 | 76-7 | 76-8 | 76-8 | 76-9 |
| 500.00 | 84-7 | 84-9 | 84-10 | 84-11 | 85-0 | 85-1 | 85-2 | 85-3 | 85-3 | 85-4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 21-4 | 21-4 | 21-4 | 21-4 | 21-4 | 21-4 | 21-5 | 21-5 | 21-5 | 21-5 |
| 275.00 | 25-10 | 25-10 | 25-10 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 26-0 |
| 300.00 | 30-10 | 30-10 | 30-10 | 30-10 | 30-11 | 30-11 | 30-11 | 30-11 | 30-11 | 31-0 |
| 325.00 | 36-3 | 36-3 | 36-3 | 36-4 | 36-4 | 36-4 | 36-5 | 36-5 | 36-5 | 36-5 |
| 350.00 | 42-2 | 42-2 | 42-2 | 42-3 | 42-3 | 42-3 | 42-4 | 42-4 | 42-4 | 42-4 |
| 375.00 | 48-6 | 48-6 | 48-7 | 48-7 | 48-8 | 48-8 | 48-8 | 48-9 | 48-9 | 48-9 |
| 400.00 | 55-4 | 55-5 | 55-5 | 55-5 | 55-6 | 55-6 | 55-7 | 55-7 | 55-7 | 55-8 |
| 425.00 | 62-8 | 62-9 | 62-9 | 62-10 | 62-10 | 62-11 | 62-11 | 62-11 | 63-0 | 63-0 |
| 450.00 | 70-6 | 70-7 | 70-7 | 70-8 | 70-8 | 70-9 | 70-9 | 70-10 | 70-10 | 70-11 |
| 475.00 | 78-10 | 78-10 | 78-11 | 79-0 | 79-0 | 79-1 | 79-2 | 79-2 | 79-3 | 79-3 |
| 500.00 | 87-8 | 87-9 | 87-9 | 87-10 | 87-11 | 88-0 | 88-0 | 88-1 | 88-1 | 88-2 |
| 525.00 | 97-0 | 97-1 | 97-2 | 97-3 | 97-3 | 97-4 | 97-5 | 97-6 | 97-6 | 97-7 |
| 550.00 | 106-11 | 107-0 | 107-1 | 107-2 | 107-3 | 107-3 | 107-4 | 107-5 | 107-5 | 107-6 |
| 575.00 | 117-4 | 117-5 | 117-6 | 117-7 | 117-8 | 117-9 | 117-10 | 117-11 | 117-11 | 118-0 |
| 600.00 | 128-4 | 128-5 | 128-6 | 128-7 | 128-8 | 128-10 | 128-11 | 128-11 | 129-0 | 129-1 |
| 625.00 | 139-10 | 140-0 | 140-1 | 140-2 | 140-4 | 140-5 | 140-6 | 140-7 | 140-8 | 140-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 21-4 | 21-4 | 21-4 | 21-4 | 21-4 | 21-4 | 21-5 | 21-5 | 21-5 | 21-5 |
| 275.00 | 25-10 | 25-10 | 25-10 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 26-0 |
| 300.00 | 30-10 | 30-10 | 30-10 | 30-11 | 30-11 | 30-11 | 30-11 | 30-11 | 30-11 | 31-0 |
| 325.00 | 36-3 | 36-3 | 36-4 | 36-4 | 36-4 | 36-4 | 36-5 | 36-5 | 36-5 | 36-5 |
| 350.00 | 42-2 | 42-2 | 42-3 | 42-3 | 42-3 | 42-3 | 42-4 | 42-4 | 42-4 | 42-4 |
| 375.00 | 48-6 | 48-7 | 48-7 | 48-7 | 48-8 | 48-8 | 48-8 | 48-9 | 48-9 | 48-9 |
| 400.00 | 55-4 | 55-5 | 55-5 | 55-6 | 55-6 | 55-6 | 55-7 | 55-7 | 55-7 | 55-8 |
| 425.00 | 62-8 | 62-9 | 62-10 | 62-10 | 62-10 | 62-11 | 62-11 | 62-11 | 63-0 | 63-0 |
| 450.00 | 70-6 | 70-7 | 70-8 | 70-8 | 70-9 | 70-9 | 70-9 | 70-10 | 70-10 | 70-11 |
| 475.00 | 78-10 | 78-11 | 79-0 | 79-0 | 79-1 | 79-1 | 79-2 | 79-2 | 79-3 | 79-3 |
| 500.00 | 87-8 | 87-9 | 87-10 | 87-11 | 87-11 | 88-0 | 88-0 | 88-1 | 88-1 | 88-2 |
| 525.00 | 97-1 | 97-2 | 97-2 | 97-3 | 97-4 | 97-4 | 97-5 | 97-6 | 97-6 | 97-7 |
| 550.00 | 107-0 | 107-0 | 107-1 | 107-2 | 107-3 | 107-4 | 107-4 | 107-5 | 107-5 | 107-6 |
| 575.00 | 117-5 | 117-6 | 117-7 | 117-8 | 117-9 | 117-9 | 117-10 | 117-11 | 117-11 | 118-0 |
| 600.00 | 128-5 | 128-6 | 128-7 | 128-8 | 128-9 | 128-10 | 128-11 | 128-11 | 129-0 | 129-1 |
| 625.00 | 140-0 | 140-1 | 140-2 | 140-3 | 140-4 | 140-5 | 140-6 | 140-7 | 140-8 | 140-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 2.35 | 2000 | 2.35 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.89 | 291 | 1.76 | 313 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.18 | 253 | 2.09 | 264 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.27 | 243 | 2.18 | 253 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.34 | 235 | 2.26 | 244 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.40 | 230 | 2.34 | 235 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.45 | 225 | 2.42 | 227 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.50 | 220 | 2.50 | 220 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.55 | 216 | 2.55 | 216 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.60 | 212 | 2.60 | 212 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.65 | 208 | 2.65 | 208 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.70 | 204 | 2.70 | 204 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.75 | 201 | 2.75 | 201 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.92 | 189 | 2.92 | 189 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 3.12 | 177 | 3.12 | 177 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 9.45 | 2000 | 9.45 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.02 | 246 | 8.89 | 249 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.29 | 239 | 9.20 | 241 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.37 | 237 | 9.28 | 239 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.45 | 235 | 9.37 | 237 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.50 | 234 | 9.45 | 235 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.56 | 232 | 9.53 | 233 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.62 | 231 | 9.62 | 231 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.68 | 229 | 9.68 | 229 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.73 | 228 | 9.73 | 228 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.79 | 227 | 9.79 | 227 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.84 | 226 | 9.84 | 226 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 9.90 | 224 | 9.90 | 224 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 10.10 | 220 | 10.10 | 220 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 10.33 | 215 | 10.33 | 215 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 21.52 | 2000 | 21.52 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.09 | 239 | 20.96 | 241 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.35 | 237 | 21.26 | 237 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.44 | 236 | 21.35 | 237 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.51 | 235 | 21.43 | 236 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.57 | 234 | 21.52 | 235 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.63 | 234 | 21.60 | 234 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.68 | 233 | 21.68 | 233 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.74 | 232 | 21.74 | 232 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.80 | 232 | 21.80 | 232 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.86 | 231 | 21.86 | 231 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.91 | 231 | 21.91 | 231 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 21.97 | 230 | 21.97 | 230 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 22.18 | 228 | 22.18 | 228 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 22.42 | 226 | 22.42 | 226 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 38.90 | 2000 | 38.90 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 38.48 | 237 | 38.35 | 238 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 38.74 | 236 | 38.65 | 236 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 38.82 | 235 | 38.73 | 236 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 38.90 | 235 | 38.82 | 235 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 38.96 | 234 | 38.90 | 235 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.01 | 234 | 38.98 | 234 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.07 | 234 | 39.07 | 234 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.13 | 234 | 39.13 | 234 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.19 | 233 | 39.19 | 233 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.24 | 233 | 39.24 | 233 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.30 | 233 | 39.30 | 233 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.36 | 232 | 39.36 | 232 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.57 | 231 | 39.57 | 231 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.82 | 230 | 39.82 | 230 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 62.21 | 2000 | 62.21 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 61.79 | 236 | 61.66 | 237 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.04 | 235 | 61.96 | 236 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.13 | 235 | 62.04 | 235 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.20 | 235 | 62.12 | 235 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.26 | 235 | 62.21 | 235 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.32 | 234 | 62.29 | 235 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.38 | 234 | 62.37 | 234 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.44 | 234 | 62.44 | 234 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.49 | 234 | 62.49 | 234 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.55 | 234 | 62.55 | 234 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.61 | 233 | 62.61 | 233 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.66 | 233 | 62.66 | 233 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 62.87 | 233 | 62.87 | 233 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 63.13 | 232 | 63.13 | 232 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 100.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 |
| 125.00 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 |
| 150.00 | 4-6 | 4-8 | 4-11 | 5-1 | 5-3 | 5-6 | 5-8 | 5-9 | 5-10 | 6-0 |
| 175.00 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 |
| 200.00 | 8-0 | 8-4 | 8-9 | 9-1 | 9-5 | 9-9 | 10-0 | 10-3 | 10-5 | 10-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 |
| 100.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 |
| 125.00 | 3-3 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 150.00 | 4-8 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 6-0 |
| 175.00 | 6-5 | 6-8 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |
| 200.00 | 8-4 | 8-9 | 9-1 | 9-5 | 9-7 | 9-10 | 10-0 | 10-3 | 10-5 | 10-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.99

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-3 | 2-4 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 |
| 125.00 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 |
| 150.00 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 175.00 | 7-0 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 |
| 200.00 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 |
| 225.00 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 |
| 250.00 | 14-3 | 14-5 | 14-6 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 | 15-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 |
| 125.00 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 |
| 150.00 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 175.00 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 |
| 200.00 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 |
| 225.00 | 11-8 | 11-9 | 11-10 | 12-0 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 |
| 250.00 | 14-5 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS



OH810.100

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 | 5-5 |
| 175.00 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 |
| 200.00 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 |
| 225.00 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 |
| 250.00 | 14-8 | 14-9 | 14-10 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 |
| 275.00 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 | 18-4 | 18-4 |
| 300.00 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-10 |
| 325.00 | 24-11 | 25-0 | 25-1 | 25-2 | 25-3 | 25-5 | 25-6 | 25-7 | 25-7 | 25-8 |
| 350.00 | 28-11 | 29-0 | 29-2 | 29-3 | 29-4 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 |
| 375.00 | 33-2 | 33-4 | 33-6 | 33-7 | 33-9 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-3 | 5-4 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 |
| 175.00 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 |
| 200.00 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 |
| 225.00 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 |
| 250.00 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 |
| 275.00 | 17-10 | 17-11 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 | 18-3 | 18-4 | 18-4 |
| 300.00 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-8 | 21-9 | 21-10 | 21-10 |
| 325.00 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-7 | 25-8 |
| 350.00 | 29-0 | 29-2 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 |
| 375.00 | 33-4 | 33-6 | 33-7 | 33-9 | 33-10 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-7 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-8 | 9-8 | 9-9 |
| 225.00 | 12-1 | 12-2 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 |
| 250.00 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 | 15-3 |
| 275.00 | 18-1 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-5 | 18-5 |
| 300.00 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 |
| 325.00 | 25-4 | 25-5 | 25-6 | 25-6 | 25-7 | 25-8 | 25-8 | 25-9 | 25-9 | 25-10 |
| 350.00 | 29-5 | 29-6 | 29-7 | 29-8 | 29-8 | 29-9 | 29-10 | 29-10 | 29-11 | 30-0 |
| 375.00 | 33-10 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-3 | 34-4 | 34-5 | 34-5 |
| 400.00 | 38-7 | 38-8 | 38-9 | 38-10 | 38-11 | 39-0 | 39-1 | 39-2 | 39-2 | 39-3 |
| 425.00 | 43-7 | 43-8 | 43-10 | 43-11 | 44-0 | 44-1 | 44-2 | 44-3 | 44-4 | 44-5 |
| 450.00 | 48-11 | 49-1 | 49-2 | 49-3 | 49-5 | 49-6 | 49-7 | 49-8 | 49-9 | 49-10 |
| 475.00 | 54-8 | 54-9 | 54-11 | 55-0 | 55-2 | 55-3 | 55-4 | 55-6 | 55-7 | 55-8 |
| 500.00 | 60-8 | 60-10 | 60-11 | 61-1 | 61-2 | 61-4 | 61-6 | 61-7 | 61-8 | 61-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-8 | 9-8 | 9-8 | 9-9 |
| 225.00 | 12-2 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 |
| 250.00 | 15-0 | 15-0 | 15-1 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 | 15-2 | 15-3 |
| 275.00 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-4 | 18-5 | 18-5 |
| 300.00 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 |
| 325.00 | 25-5 | 25-6 | 25-6 | 25-7 | 25-7 | 25-8 | 25-8 | 25-9 | 25-9 | 25-10 |
| 350.00 | 29-6 | 29-7 | 29-8 | 29-8 | 29-9 | 29-9 | 29-10 | 29-10 | 29-11 | 30-0 |
| 375.00 | 33-11 | 34-0 | 34-1 | 34-2 | 34-2 | 34-3 | 34-3 | 34-4 | 34-5 | 34-5 |
| 400.00 | 38-8 | 38-9 | 38-10 | 38-11 | 38-11 | 39-0 | 39-1 | 39-2 | 39-2 | 39-3 |
| 425.00 | 43-8 | 43-10 | 43-11 | 44-0 | 44-1 | 44-1 | 44-2 | 44-3 | 44-4 | 44-5 |
| 450.00 | 49-1 | 49-2 | 49-4 | 49-5 | 49-6 | 49-6 | 49-7 | 49-8 | 49-9 | 49-10 |
| 475.00 | 54-9 | 54-11 | 55-0 | 55-2 | 55-3 | 55-4 | 55-5 | 55-6 | 55-7 | 55-8 |
| 500.00 | 60-10 | 60-11 | 61-1 | 61-2 | 61-3 | 61-5 | 61-6 | 61-7 | 61-8 | 61-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 |
| 275.00 | 18-6 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 | 18-8 | 18-8 | 18-8 |
| 300.00 | 22-0 | 22-0 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 |
| 325.00 | 25-10 | 25-11 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-1 | 26-1 | 26-1 |
| 350.00 | 30-0 | 30-1 | 30-1 | 30-2 | 30-2 | 30-3 | 30-3 | 30-3 | 30-4 | 30-4 |
| 375.00 | 34-6 | 34-7 | 34-7 | 34-8 | 34-8 | 34-9 | 34-9 | 34-10 | 34-10 | 34-11 |
| 400.00 | 39-4 | 39-4 | 39-5 | 39-6 | 39-6 | 39-7 | 39-8 | 39-8 | 39-9 | 39-9 |
| 425.00 | 44-5 | 44-6 | 44-7 | 44-8 | 44-8 | 44-9 | 44-10 | 44-10 | 44-11 | 44-11 |
| 450.00 | 49-11 | 50-0 | 50-1 | 50-2 | 50-2 | 50-3 | 50-4 | 50-5 | 50-5 | 50-6 |
| 475.00 | 55-9 | 55-10 | 55-11 | 56-0 | 56-0 | 56-1 | 56-2 | 56-3 | 56-3 | 56-4 |
| 500.00 | 61-10 | 61-11 | 62-0 | 62-1 | 62-2 | 62-3 | 62-4 | 62-5 | 62-6 | 62-7 |
| 525.00 | 68-4 | 68-5 | 68-6 | 68-8 | 68-9 | 68-10 | 68-11 | 69-0 | 69-0 | 69-1 |
| 550.00 | 75-2 | 75-3 | 75-5 | 75-6 | 75-7 | 75-8 | 75-9 | 75-10 | 75-11 | 76-0 |
| 575.00 | 82-4 | 82-5 | 82-7 | 82-8 | 82-10 | 82-11 | 83-0 | 83-1 | 83-2 | 83-3 |
| 600.00 | 89-10 | 90-0 | 90-1 | 90-3 | 90-4 | 90-6 | 90-7 | 90-8 | 90-9 | 90-10 |
| 625.00 | 97-9 | 97-11 | 98-0 | 98-2 | 98-3 | 98-5 | 98-7 | 98-8 | 98-9 | 98-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 |
| 275.00 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 | 18-7 | 18-8 | 18-8 | 18-8 |
| 300.00 | 22-0 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 |
| 325.00 | 25-11 | 25-11 | 25-11 | 26-0 | 26-0 | 26-0 | 26-1 | 26-1 | 26-1 | 26-1 |
| 350.00 | 30-1 | 30-1 | 30-2 | 30-2 | 30-2 | 30-3 | 30-3 | 30-3 | 30-4 | 30-4 |
| 375.00 | 34-7 | 34-7 | 34-8 | 34-8 | 34-9 | 34-9 | 34-9 | 34-10 | 34-10 | 34-11 |
| 400.00 | 39-4 | 39-5 | 39-6 | 39-6 | 39-7 | 39-7 | 39-8 | 39-8 | 39-9 | 39-9 |
| 425.00 | 44-6 | 44-7 | 44-8 | 44-8 | 44-9 | 44-9 | 44-10 | 44-10 | 44-11 | 44-11 |
| 450.00 | 50-0 | 50-1 | 50-2 | 50-2 | 50-3 | 50-3 | 50-4 | 50-5 | 50-5 | 50-6 |
| 475.00 | 55-10 | 55-11 | 56-0 | 56-0 | 56-1 | 56-2 | 56-2 | 56-3 | 56-3 | 56-4 |
| 500.00 | 61-11 | 62-1 | 62-2 | 62-2 | 62-3 | 62-4 | 62-5 | 62-5 | 62-6 | 62-7 |
| 525.00 | 68-5 | 68-6 | 68-8 | 68-9 | 68-9 | 68-10 | 68-11 | 69-0 | 69-0 | 69-1 |
| 550.00 | 75-3 | 75-5 | 75-6 | 75-7 | 75-8 | 75-9 | 75-9 | 75-10 | 75-11 | 76-0 |
| 575.00 | 82-6 | 82-7 | 82-8 | 82-9 | 82-10 | 82-11 | 83-0 | 83-1 | 83-2 | 83-3 |
| 600.00 | 90-0 | 90-1 | 90-3 | 90-4 | 90-5 | 90-6 | 90-7 | 90-8 | 90-9 | 90-10 |
| 625.00 | 97-11 | 98-0 | 98-2 | 98-3 | 98-4 | 98-6 | 98-7 | 98-8 | 98-9 | 98-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 1.88 | 2500 | 1.88 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.12 | 492 | 0.95 | 582 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.52 | 362 | 1.36 | 406 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.64 | 336 | 1.48 | 372 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.74 | 316 | 1.59 | 345 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.81 | 305 | 1.70 | 323 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.87 | 294 | 1.81 | 304 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.93 | 285 | 1.91 | 288 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.00 | 275 | 2.00 | 275 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.06 | 267 | 2.06 | 267 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.12 | 260 | 2.12 | 260 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.18 | 253 | 2.18 | 253 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.24 | 246 | 2.24 | 246 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.44 | 226 | 2.44 | 226 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.66 | 207 | 2.66 | 207 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 7.54 | 2500 | 7.54 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.85 | 323 | 6.67 | 331 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.19 | 307 | 7.04 | 314 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.30 | 303 | 7.15 | 309 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.39 | 299 | 7.26 | 305 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.46 | 296 | 7.37 | 300 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.53 | 294 | 7.47 | 296 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.60 | 291 | 7.57 | 292 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.68 | 288 | 7.68 | 288 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.75 | 286 | 7.75 | 286 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.81 | 283 | 7.81 | 283 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.88 | 281 | 7.88 | 281 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.95 | 279 | 7.95 | 279 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.19 | 270 | 8.19 | 270 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 8.48 | 261 | 8.48 | 261 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 17.09 | 2500 | 17.09 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.41 | 305 | 16.23 | 309 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.74 | 299 | 16.60 | 302 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.85 | 297 | 16.70 | 300 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 16.94 | 296 | 16.81 | 298 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.01 | 295 | 16.91 | 296 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.08 | 294 | 17.02 | 295 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.15 | 292 | 17.12 | 293 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.22 | 291 | 17.22 | 291 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.30 | 290 | 17.30 | 290 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.37 | 289 | 17.37 | 289 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.44 | 288 | 17.44 | 288 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.51 | 287 | 17.51 | 287 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 17.76 | 283 | 17.76 | 283 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 18.07 | 278 | 18.07 | 278 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 30.69 | 2500 | 30.69 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.02 | 300 | 29.84 | 301 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.35 | 297 | 30.20 | 298 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.46 | 296 | 30.31 | 297 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.54 | 295 | 30.41 | 296 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.62 | 294 | 30.52 | 295 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.69 | 294 | 30.62 | 294 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.76 | 293 | 30.73 | 293 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.83 | 292 | 30.83 | 292 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.91 | 292 | 30.91 | 292 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 30.98 | 291 | 30.98 | 291 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.05 | 290 | 31.05 | 290 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.12 | 290 | 31.12 | 290 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.38 | 287 | 31.38 | 287 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 31.69 | 285 | 31.69 | 285 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 48.63 | 2500 | 48.63 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 47.96 | 297 | 47.79 | 298 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.29 | 295 | 48.14 | 296 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.40 | 295 | 48.25 | 296 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.48 | 294 | 48.35 | 295 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.55 | 294 | 48.46 | 294 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.63 | 294 | 48.56 | 294 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.70 | 293 | 48.67 | 293 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.77 | 293 | 48.77 | 293 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.84 | 292 | 48.84 | 292 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.92 | 292 | 48.92 | 292 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 48.99 | 291 | 48.99 | 291 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 49.06 | 291 | 49.06 | 291 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 49.32 | 290 | 49.32 | 290 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 49.64 | 288 | 49.64 | 288 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-2 |
| 100.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 125.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-4 |
| 150.00 | 2-9 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-8 | 4-9 |
| 175.00 | 3-9 | 4-2 | 4-6 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-4 | 6-6 |
| 200.00 | 4-11 | 5-5 | 5-11 | 6-5 | 6-10 | 7-3 | 7-8 | 8-0 | 8-3 | 8-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 |
| 100.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 125.00 | 2-2 | 2-5 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 |
| 150.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-9 |
| 175.00 | 4-3 | 4-8 | 5-0 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 |
| 200.00 | 5-7 | 6-1 | 6-7 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 1-11 |
| 125.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 |
| 150.00 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 |
| 175.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 |
| 200.00 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 225.00 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 |
| 250.00 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-1 | 12-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 1-11 | 1-11 |
| 125.00 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 |
| 150.00 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 |
| 175.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 |
| 200.00 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 225.00 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 |
| 250.00 | 11-1 | 11-3 | 11-5 | 11-7 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 | 12-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 175.00 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 |
| 200.00 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 |
| 225.00 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 |
| 250.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-10 | 11-11 | 12-0 | 12-1 |
| 275.00 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-5 | 14-6 | 14-6 | 14-7 |
| 300.00 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 | 17-1 | 17-3 | 17-4 | 17-4 |
| 325.00 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-5 |
| 350.00 | 22-6 | 22-7 | 22-9 | 22-11 | 23-1 | 23-2 | 23-4 | 23-6 | 23-7 | 23-8 |
| 375.00 | 25-10 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 | 26-10 | 27-0 | 27-1 | 27-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 175.00 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 |
| 200.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 |
| 225.00 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 250.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 |
| 275.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 |
| 300.00 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-4 |
| 325.00 | 19-6 | 19-8 | 19-9 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 |
| 350.00 | 22-8 | 22-10 | 23-0 | 23-1 | 23-2 | 23-3 | 23-5 | 23-6 | 23-7 | 23-8 |
| 375.00 | 26-1 | 26-3 | 26-5 | 26-6 | 26-8 | 26-9 | 26-10 | 27-0 | 27-1 | 27-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 |
| 225.00 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 |
| 250.00 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 |
| 275.00 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 |
| 300.00 | 16-11 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 |
| 325.00 | 19-10 | 19-11 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 |
| 350.00 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 |
| 375.00 | 26-5 | 26-6 | 26-7 | 26-8 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-2 |
| 400.00 | 30-1 | 30-2 | 30-4 | 30-5 | 30-6 | 30-7 | 30-9 | 30-10 | 30-11 | 31-0 |
| 425.00 | 34-0 | 34-2 | 34-3 | 34-4 | 34-6 | 34-7 | 34-9 | 34-10 | 34-11 | 35-0 |
| 450.00 | 38-2 | 38-4 | 38-5 | 38-7 | 38-8 | 38-10 | 39-0 | 39-1 | 39-2 | 39-3 |
| 475.00 | 42-7 | 42-9 | 42-10 | 43-0 | 43-2 | 43-4 | 43-6 | 43-7 | 43-9 | 43-10 |
| 500.00 | 47-3 | 47-5 | 47-7 | 47-9 | 47-11 | 48-1 | 48-3 | 48-5 | 48-6 | 48-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 | 7-8 |
| 225.00 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 |
| 250.00 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-1 |
| 275.00 | 14-3 | 14-3 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 |
| 300.00 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 |
| 325.00 | 19-11 | 20-0 | 20-1 | 20-1 | 20-2 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 |
| 350.00 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 |
| 375.00 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-2 | 27-2 |
| 400.00 | 30-3 | 30-4 | 30-6 | 30-7 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 |
| 425.00 | 34-2 | 34-4 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 |
| 450.00 | 38-4 | 38-6 | 38-8 | 38-9 | 38-10 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 |
| 475.00 | 42-9 | 42-11 | 43-1 | 43-2 | 43-4 | 43-5 | 43-6 | 43-7 | 43-9 | 43-10 |
| 500.00 | 47-5 | 47-7 | 47-10 | 47-11 | 48-1 | 48-2 | 48-3 | 48-5 | 48-6 | 48-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-1 | 12-1 | 12-1 | 12-1 |
| 275.00 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 |
| 300.00 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-6 |
| 325.00 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-6 | 20-6 |
| 350.00 | 23-5 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 | 23-8 | 23-9 | 23-9 | 23-10 |
| 375.00 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 | 27-3 | 27-4 | 27-4 |
| 400.00 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 |
| 425.00 | 34-7 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-0 | 35-1 | 35-2 | 35-3 |
| 450.00 | 38-10 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 | 39-5 | 39-6 | 39-6 |
| 475.00 | 43-4 | 43-5 | 43-6 | 43-7 | 43-8 | 43-9 | 43-10 | 44-0 | 44-0 | 44-1 |
| 500.00 | 48-0 | 48-2 | 48-3 | 48-4 | 48-5 | 48-7 | 48-8 | 48-9 | 48-10 | 48-11 |
| 525.00 | 53-0 | 53-2 | 53-3 | 53-5 | 53-6 | 53-7 | 53-9 | 53-10 | 53-11 | 54-0 |
| 550.00 | 58-3 | 58-5 | 58-6 | 58-8 | 58-9 | 58-11 | 59-0 | 59-2 | 59-3 | 59-4 |
| 575.00 | 63-9 | 63-11 | 64-1 | 64-2 | 64-4 | 64-6 | 64-7 | 64-9 | 64-10 | 64-11 |
| 600.00 | 69-7 | 69-8 | 69-10 | 70-0 | 70-2 | 70-4 | 70-6 | 70-7 | 70-9 | 70-10 |
| 625.00 | 75-7 | 75-9 | 75-11 | 76-1 | 76-3 | 76-5 | 76-7 | 76-9 | 76-10 | 77-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-11 | 12-0 | 12-0 | 12-0 | 12-0 | 12-1 | 12-1 | 12-1 | 12-1 | 12-1 |
| 275.00 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 |
| 300.00 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-6 |
| 325.00 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-6 | 20-6 | 20-6 |
| 350.00 | 23-6 | 23-6 | 23-7 | 23-7 | 23-8 | 23-8 | 23-9 | 23-9 | 23-9 | 23-10 |
| 375.00 | 27-0 | 27-0 | 27-1 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-4 | 27-4 |
| 400.00 | 30-8 | 30-9 | 30-10 | 30-11 | 30-11 | 31-0 | 31-0 | 31-1 | 31-1 | 31-2 |
| 425.00 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-0 | 35-1 | 35-1 | 35-2 | 35-3 |
| 450.00 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 | 39-4 | 39-5 | 39-6 | 39-6 |
| 475.00 | 43-5 | 43-6 | 43-8 | 43-8 | 43-9 | 43-10 | 43-11 | 44-0 | 44-0 | 44-1 |
| 500.00 | 48-2 | 48-3 | 48-5 | 48-6 | 48-7 | 48-8 | 48-8 | 48-9 | 48-10 | 48-11 |
| 525.00 | 53-2 | 53-4 | 53-5 | 53-6 | 53-7 | 53-8 | 53-9 | 53-10 | 53-11 | 54-0 |
| 550.00 | 58-5 | 58-7 | 58-9 | 58-10 | 58-11 | 59-0 | 59-1 | 59-2 | 59-3 | 59-4 |
| 575.00 | 64-0 | 64-1 | 64-3 | 64-4 | 64-6 | 64-7 | 64-8 | 64-9 | 64-10 | 64-11 |
| 600.00 | 69-9 | 69-11 | 70-1 | 70-2 | 70-4 | 70-5 | 70-6 | 70-7 | 70-9 | 70-10 |
| 625.00 | 75-10 | 76-0 | 76-2 | 76-3 | 76-5 | 76-6 | 76-7 | 76-9 | 76-10 | 77-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 1.56 | 3000 | 1.56 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.51 | 1072 | 0.40 | 1388 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 0.96 | 576 | 0.71 | 775 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.11 | 497 | 0.85 | 645 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.25 | 440 | 1.00 | 551 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.34 | 412 | 1.14 | 483 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.41 | 390 | 1.28 | 432 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.48 | 371 | 1.40 | 392 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.55 | 354 | 1.52 | 361 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.63 | 338 | 1.63 | 338 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.70 | 324 | 1.70 | 324 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.77 | 312 | 1.77 | 312 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 1.83 | 301 | 1.83 | 301 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.06 | 267 | 2.06 | 267 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 2.32 | 238 | 2.32 | 238 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 6.27 | 3000 | 6.27 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.26 | 420 | 5.00 | 441 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.69 | 388 | 5.44 | 405 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.82 | 379 | 5.58 | 395 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 5.93 | 373 | 5.72 | 386 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.01 | 367 | 5.85 | 377 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.10 | 362 | 5.98 | 369 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.18 | 357 | 6.11 | 362 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.26 | 353 | 6.23 | 355 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.35 | 348 | 6.35 | 348 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.43 | 344 | 6.43 | 344 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.51 | 339 | 6.51 | 339 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.59 | 335 | 6.59 | 335 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 6.87 | 322 | 6.87 | 322 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 7.21 | 307 | 7.21 | 307 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 14.18 | 3000 | 14.18 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.20 | 378 | 12.95 | 385 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.60 | 367 | 13.37 | 373 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.74 | 363 | 13.50 | 370 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.83 | 361 | 13.63 | 366 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 13.92 | 359 | 13.76 | 363 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.00 | 357 | 13.89 | 359 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.09 | 354 | 14.01 | 356 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.17 | 352 | 14.14 | 353 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.26 | 350 | 14.26 | 350 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.34 | 348 | 14.34 | 348 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.43 | 346 | 14.43 | 346 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.51 | 344 | 14.51 | 344 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 14.81 | 337 | 14.81 | 337 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 15.17 | 330 | 15.17 | 330 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 25.39 | 3000 | 25.39 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 24.42 | 366 | 24.17 | 369 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 24.82 | 360 | 24.59 | 363 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 24.95 | 358 | 24.72 | 361 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 25.04 | 357 | 24.84 | 360 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 25.12 | 356 | 24.97 | 358 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 25.21 | 355 | 25.10 | 356 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 25.30 | 353 | 25.22 | 354 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 25.38 | 352 | 25.35 | 353 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 25.47 | 351 | 25.47 | 351 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 25.56 | 350 | 25.56 | 350 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 25.64 | 349 | 25.64 | 349 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 25.73 | 348 | 25.73 | 348 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 26.03 | 344 | 26.03 | 344 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 26.41 | 339 | 26.41 | 339 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.748 | 40.05 | 3000 | 40.05 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.08 | 360 | 38.84 | 363 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.48 | 357 | 39.25 | 359 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.61 | 356 | 39.38 | 358 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.69 | 355 | 39.50 | 357 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.78 | 354 | 39.63 | 356 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.87 | 354 | 39.75 | 355 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.440 | 39.95 | 353 | 39.88 | 354 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.440 | 40.04 | 352 | 40.01 | 353 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.440 | 40.13 | 351 | 40.13 | 351 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.440 | 40.21 | 351 | 40.21 | 351 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.440 | 40.30 | 350 | 40.30 | 350 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.440 | 40.38 | 349 | 40.38 | 349 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.440 | 40.70 | 347 | 40.70 | 347 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.440 | 41.07 | 344 | 41.07 | 344 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-8 |
| 125.00 | 0-11 | 1-1 | 1-4 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 | 2-8 |
| 150.00 | 1-4 | 1-7 | 1-11 | 2-3 | 2-7 | 2-10 | 3-2 | 3-5 | 3-8 | 3-10 |
| 175.00 | 1-9 | 2-2 | 2-7 | 3-1 | 3-6 | 3-11 | 4-4 | 4-8 | 5-0 | 5-2 |
| 200.00 | 2-4 | 2-10 | 3-5 | 4-0 | 4-7 | 5-1 | 5-7 | 6-1 | 6-6 | 6-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 |
| 125.00 | 1-3 | 1-6 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 |
| 150.00 | 1-10 | 2-2 | 2-6 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 175.00 | 2-5 | 2-11 | 3-5 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 | 5-0 | 5-2 |
| 200.00 | 3-2 | 3-10 | 4-5 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 |
| 150.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 |
| 175.00 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 200.00 | 5-4 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 |
| 225.00 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 |
| 250.00 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 |
| 150.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 |
| 175.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 |
| 200.00 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 225.00 | 7-0 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-0 | 8-2 |
| 250.00 | 8-8 | 8-11 | 9-1 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-11 | 10-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.116

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 |
| 175.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 |
| 200.00 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 |
| 225.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-1 |
| 250.00 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 9-11 |
| 275.00 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 |
| 300.00 | 13-3 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 |
| 325.00 | 15-7 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 | 16-5 | 16-7 | 16-9 | 16-10 |
| 350.00 | 18-0 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 |
| 375.00 | 20-9 | 20-11 | 21-2 | 21-4 | 21-6 | 21-9 | 21-11 | 22-2 | 22-4 | 22-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 |
| 175.00 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 |
| 200.00 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 |
| 225.00 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 |
| 250.00 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 9-11 |
| 275.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 300.00 | 13-6 | 13-7 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 |
| 325.00 | 15-10 | 16-0 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-8 | 16-9 | 16-10 |
| 350.00 | 18-4 | 18-6 | 18-9 | 18-10 | 19-0 | 19-1 | 19-2 | 19-4 | 19-5 | 19-7 |
| 375.00 | 21-1 | 21-3 | 21-6 | 21-8 | 21-9 | 21-11 | 22-1 | 22-2 | 22-4 | 22-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 |
| 225.00 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 |
| 250.00 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 |
| 275.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 |
| 300.00 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-4 |
| 325.00 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 |
| 350.00 | 18-8 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-5 | 19-6 | 19-7 |
| 375.00 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 |
| 400.00 | 24-6 | 24-7 | 24-9 | 24-10 | 25-0 | 25-1 | 25-3 | 25-4 | 25-6 | 25-7 |
| 425.00 | 27-8 | 27-9 | 27-11 | 28-1 | 28-3 | 28-4 | 28-6 | 28-8 | 28-9 | 28-10 |
| 450.00 | 31-0 | 31-2 | 31-4 | 31-6 | 31-8 | 31-10 | 32-0 | 32-2 | 32-3 | 32-5 |
| 475.00 | 34-7 | 34-9 | 34-11 | 35-1 | 35-3 | 35-6 | 35-8 | 35-10 | 36-0 | 36-1 |
| 500.00 | 38-4 | 38-6 | 38-9 | 38-11 | 39-2 | 39-4 | 39-6 | 39-9 | 39-11 | 40-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 |
| 225.00 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 |
| 250.00 | 9-7 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 |
| 275.00 | 11-8 | 11-8 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 |
| 300.00 | 13-10 | 13-11 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 |
| 325.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 | 16-9 | 16-9 | 16-10 |
| 350.00 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 |
| 375.00 | 21-8 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-4 | 22-5 |
| 400.00 | 24-8 | 24-10 | 24-11 | 25-0 | 25-1 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 |
| 425.00 | 27-11 | 28-0 | 28-2 | 28-3 | 28-5 | 28-6 | 28-7 | 28-8 | 28-9 | 28-10 |
| 450.00 | 31-3 | 31-5 | 31-7 | 31-9 | 31-10 | 31-11 | 32-1 | 32-2 | 32-3 | 32-5 |
| 475.00 | 34-11 | 35-1 | 35-3 | 35-5 | 35-6 | 35-8 | 35-9 | 35-10 | 36-0 | 36-1 |
| 500.00 | 38-8 | 38-11 | 39-1 | 39-3 | 39-4 | 39-6 | 39-8 | 39-9 | 39-11 | 40-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 |
| 275.00 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 |
| 300.00 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 |
| 325.00 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 | 16-9 | 16-9 | 16-10 | 16-10 | 16-11 |
| 350.00 | 19-1 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 | 19-6 | 19-6 | 19-7 | 19-7 |
| 375.00 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 | 22-6 | 22-6 |
| 400.00 | 25-0 | 25-1 | 25-2 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 |
| 425.00 | 28-2 | 28-4 | 28-5 | 28-6 | 28-7 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 |
| 450.00 | 31-8 | 31-9 | 31-10 | 31-11 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 |
| 475.00 | 35-3 | 35-5 | 35-6 | 35-7 | 35-9 | 35-10 | 36-0 | 36-1 | 36-2 | 36-3 |
| 500.00 | 39-1 | 39-3 | 39-5 | 39-6 | 39-8 | 39-9 | 39-11 | 40-0 | 40-2 | 40-3 |
| 525.00 | 43-2 | 43-4 | 43-5 | 43-7 | 43-9 | 43-10 | 44-0 | 44-2 | 44-3 | 44-4 |
| 550.00 | 47-5 | 47-7 | 47-9 | 47-11 | 48-0 | 48-2 | 48-4 | 48-6 | 48-8 | 48-9 |
| 575.00 | 51-10 | 52-1 | 52-3 | 52-5 | 52-7 | 52-9 | 52-11 | 53-1 | 53-3 | 53-4 |
| 600.00 | 56-6 | 56-9 | 56-11 | 57-1 | 57-3 | 57-5 | 57-8 | 57-10 | 58-0 | 58-1 |
| 625.00 | 61-5 | 61-7 | 61-10 | 62-0 | 62-2 | 62-5 | 62-7 | 62-10 | 63-0 | 63-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 9-9 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 |
| 275.00 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-0 | 12-1 | 12-1 |
| 300.00 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-5 |
| 325.00 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-11 |
| 350.00 | 19-2 | 19-3 | 19-4 | 19-4 | 19-5 | 19-5 | 19-6 | 19-6 | 19-7 | 19-7 |
| 375.00 | 22-1 | 22-2 | 22-2 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 |
| 400.00 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-5 | 25-6 | 25-7 | 25-7 | 25-8 |
| 425.00 | 28-4 | 28-5 | 28-7 | 28-7 | 28-8 | 28-9 | 28-10 | 28-10 | 28-11 | 29-0 |
| 450.00 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-5 | 32-6 |
| 475.00 | 35-6 | 35-7 | 35-9 | 35-10 | 35-10 | 35-11 | 36-0 | 36-1 | 36-2 | 36-3 |
| 500.00 | 39-4 | 39-6 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-2 | 40-3 |
| 525.00 | 43-5 | 43-7 | 43-8 | 43-10 | 43-11 | 44-0 | 44-1 | 44-2 | 44-3 | 44-4 |
| 550.00 | 47-8 | 47-10 | 48-0 | 48-1 | 48-3 | 48-4 | 48-5 | 48-6 | 48-8 | 48-9 |
| 575.00 | 52-2 | 52-4 | 52-6 | 52-8 | 52-9 | 52-10 | 53-0 | 53-1 | 53-3 | 53-4 |
| 600.00 | 56-10 | 57-1 | 57-3 | 57-4 | 57-6 | 57-7 | 57-9 | 57-10 | 58-0 | 58-1 |
| 625.00 | 61-9 | 62-0 | 62-2 | 62-4 | 62-5 | 62-7 | 62-9 | 62-10 | 63-0 | 63-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 1.04 | 942 | 0.98 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.45 | 1232 | 0.43 | 1292 |
| 30 | 0 | 0 | 0 | 0.44 | 0.56 | 978 | 0.52 | 1065 |
| 40 | 0 | 0 | 0 | 0.44 | 0.7 | 781 | 0.63 | 870 |
| 50 | 0 | 0 | 0 | 0.44 | 0.86 | 640 | 0.77 | 716 |
| 60 | 0 | 0 | 0 | 0.44 | 1.02 | 542 | 0.91 | 603 |
| 70 | 0 | 0 | 0 | 0.44 | 1.16 | 472 | 1.06 | 520 |
| 80 | 0 | 0 | 0 | 0.44 | 1.31 | 422 | 1.2 | 459 |
| 90 | 0 | 0 | 0 | 0.44 | 1.39 | 396 | 1.33 | 414 |
| 100 | 0 | 0 | 0 | 0.44 | 1.46 | 377 | 1.46 | 378 |
| 110 | 0 | 0 | 0 | 0.44 | 1.54 | 358 | 1.54 | 358 |
| 120 | 0 | 0 | 0 | 0.44 | 1.61 | 342 | 1.61 | 342 |
| 130 | 0 | 0 | 0 | 0.44 | 1.68 | 328 | 1.68 | 328 |
| 167 | 0 | 0 | 0 | 0.44 | 1.92 | 287 | 1.92 | 287 |
| 212 | 0 | 0 | 0 | 0.44 | 2.19 | 252 | 2.19 | 252 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 4.01 | 978 | 3.92 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 3.16 | 698 | 3.04 | 724 |
| 30 | 0 | 0 | 0 | 0.44 | 3.37 | 653 | 3.25 | 677 |
| 40 | 0 | 0 | 0 | 0.44 | 3.58 | 615 | 3.45 | 638 |
| 50 | 0 | 0 | 0 | 0.44 | 3.78 | 583 | 3.65 | 604 |
| 60 | 0 | 0 | 0 | 0.44 | 3.97 | 555 | 3.84 | 574 |
| 70 | 0 | 0 | 0 | 0.44 | 4.16 | 530 | 4.02 | 548 |
| 80 | 0 | 0 | 0 | 0.44 | 4.34 | 508 | 4.2 | 525 |
| 90 | 0 | 0 | 0 | 0.44 | 4.51 | 489 | 4.37 | 505 |
| 100 | 0 | 0 | 0 | 0.44 | 4.62 | 477 | 4.54 | 486 |
| 110 | 0 | 0 | 0 | 0.44 | 4.72 | 467 | 4.7 | 469 |
| 120 | 0 | 0 | 0 | 0.44 | 4.83 | 457 | 4.83 | 457 |
| 130 | 0 | 0 | 0 | 0.44 | 4.93 | 448 | 4.93 | 448 |
| 167 | 0 | 0 | 0 | 0.44 | 5.28 | 418 | 5.28 | 418 |
| 212 | 0 | 0 | 0 | 0.44 | 5.69 | 388 | 5.69 | 388 |

* Design Condition

TABLE OF CONTENTS

INDEX

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 8.94 | 989 | 8.84 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 8.07 | 615 | 7.95 | 624 |
| 30 | 0 | 0 | 0 | 0.44 | 8.28 | 599 | 8.16 | 609 |
| 40 | 0 | 0 | 0 | 0.44 | 8.49 | 585 | 8.36 | 594 |
| 50 | 0 | 0 | 0 | 0.44 | 8.7 | 571 | 8.56 | 580 |
| 60 | 0 | 0 | 0 | 0.44 | 8.9 | 558 | 8.75 | 567 |
| 70 | 0 | 0 | 0 | 0.44 | 9.09 | 546 | 8.95 | 555 |
| 80 | 0 | 0 | 0 | 0.44 | 9.28 | 535 | 9.13 | 544 |
| 90 | 0 | 0 | 0 | 0.44 | 9.47 | 525 | 9.32 | 533 |
| 100 | 0 | 0 | 0 | 0.44 | 9.63 | 516 | 9.5 | 523 |
| 110 | 0 | 0 | 0 | 0.44 | 9.75 | 510 | 9.68 | 513 |
| 120 | 0 | 0 | 0 | 0.44 | 9.86 | 504 | 9.86 | 504 |
| 130 | 0 | 0 | 0 | 0.44 | 9.98 | 498 | 9.98 | 498 |
| 167 | 0 | 0 | 0 | 0.44 | 10.4 | 478 | 10.4 | 478 |
| 212 | 0 | 0 | 0 | 0.44 | 10.89 | 457 | 10.89 | 457 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 15.86 | 994 | 15.76 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 14.99 | 590 | 14.87 | 595 |
| 30 | 0 | 0 | 0 | 0.44 | 15.2 | 582 | 15.08 | 587 |
| 40 | 0 | 0 | 0 | 0.44 | 15.41 | 574 | 15.28 | 579 |
| 50 | 0 | 0 | 0 | 0.44 | 15.62 | 567 | 15.48 | 572 |
| 60 | 0 | 0 | 0 | 0.44 | 15.82 | 560 | 15.67 | 565 |
| 70 | 0 | 0 | 0 | 0.44 | 16.02 | 553 | 15.87 | 558 |
| 80 | 0 | 0 | 0 | 0.44 | 16.22 | 546 | 16.06 | 551 |
| 90 | 0 | 0 | 0 | 0.44 | 16.41 | 540 | 16.25 | 545 |
| 100 | 0 | 0 | 0 | 0.44 | 16.59 | 534 | 16.44 | 539 |
| 110 | 0 | 0 | 0 | 0.44 | 16.71 | 530 | 16.63 | 533 |
| 120 | 0 | 0 | 0 | 0.44 | 16.84 | 526 | 16.82 | 527 |
| 130 | 0 | 0 | 0 | 0.44 | 16.97 | 522 | 16.97 | 522 |
| 167 | 0 | 0 | 0 | 0.44 | 17.41 | 509 | 17.41 | 509 |
| 212 | 0 | 0 | 0 | 0.44 | 17.95 | 494 | 17.95 | 494 |

* Design Condition

TABLE OF CONTENTS

INDEX

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 24.82 | 996 | 24.72 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 23.95 | 579 | 23.83 | 582 |
| 30 | 0 | 0 | 0 | 0.44 | 24.16 | 575 | 24.03 | 578 |
| 40 | 0 | 0 | 0 | 0.44 | 24.36 | 570 | 24.23 | 573 |
| 50 | 0 | 0 | 0 | 0.44 | 24.57 | 565 | 24.43 | 568 |
| 60 | 0 | 0 | 0 | 0.44 | 24.77 | 561 | 24.63 | 564 |
| 70 | 0 | 0 | 0 | 0.44 | 24.97 | 556 | 24.82 | 559 |
| 80 | 0 | 0 | 0 | 0.44 | 25.17 | 552 | 25.02 | 555 |
| 90 | 0 | 0 | 0 | 0.44 | 25.37 | 547 | 25.21 | 551 |
| 100 | 0 | 0 | 0 | 0.44 | 25.57 | 543 | 25.41 | 547 |
| 110 | 0 | 0 | 0 | 0.44 | 25.69 | 541 | 25.6 | 543 |
| 120 | 0 | 0 | 0 | 0.44 | 25.82 | 538 | 25.79 | 539 |
| 130 | 0 | 0 | 0 | 0.44 | 25.95 | 535 | 25.95 | 535 |
| 167 | 0 | 0 | 0 | 0.44 | 26.42 | 526 | 26.42 | 526 |
| 212 | 0 | 0 | 0 | 0.44 | 26.98 | 516 | 26.98 | 516 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 |
| 150.00 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-8 | 3-0 | 3-3 | 3-6 |
| 175.00 | 1-4 | 1-7 | 1-11 | 2-4 | 2-10 | 3-3 | 3-8 | 4-1 | 4-6 | 4-9 |
| 200.00 | 1-8 | 2-1 | 2-6 | 3-1 | 3-8 | 4-3 | 4-10 | 5-4 | 5-10 | 6-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 | 1-6 |
| 125.00 | 0-8 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 |
| 150.00 | 1-0 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-1 | 3-3 | 3-6 |
| 175.00 | 1-4 | 1-9 | 2-2 | 2-8 | 3-1 | 3-7 | 4-0 | 4-3 | 4-6 | 4-9 |
| 200.00 | 1-9 | 2-3 | 2-10 | 3-5 | 4-1 | 4-8 | 5-3 | 5-7 | 5-10 | 6-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.123

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 |
| 150.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 |
| 175.00 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 |
| 200.00 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 |
| 225.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 |
| 250.00 | 4-9 | 5-1 | 5-5 | 5-8 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-2 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 |
| 150.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 175.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 |
| 200.00 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 |
| 225.00 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 |
| 250.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-9 | 7-1 | 7-3 | 7-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 |
| 175.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 |
| 200.00 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 225.00 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 |
| 250.00 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 |
| 275.00 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |
| 300.00 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-8 |
| 325.00 | 9-4 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 | 11-4 |
| 350.00 | 10-10 | 11-1 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 |
| 375.00 | 12-5 | 12-9 | 13-1 | 13-5 | 13-8 | 14-0 | 14-3 | 14-7 | 14-10 | 15-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 175.00 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 200.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 225.00 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 |
| 250.00 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 |
| 275.00 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 |
| 300.00 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-6 | 9-8 | 9-9 |
| 325.00 | 9-6 | 9-9 | 10-0 | 10-3 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-5 |
| 350.00 | 11-0 | 11-3 | 11-7 | 11-10 | 12-1 | 12-5 | 12-8 | 12-11 | 13-1 | 13-3 |
| 375.00 | 12-7 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 | 14-6 | 14-10 | 15-1 | 15-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 |
| 225.00 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 |
| 250.00 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 275.00 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 300.00 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 |
| 325.00 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 |
| 350.00 | 11-5 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 | 12-5 | 12-7 | 12-9 |
| 375.00 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 |
| 400.00 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-10 | 16-1 | 16-3 | 16-5 | 16-8 |
| 425.00 | 16-10 | 17-0 | 17-3 | 17-6 | 17-8 | 17-11 | 18-2 | 18-4 | 18-7 | 18-9 |
| 450.00 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 |
| 475.00 | 21-0 | 21-3 | 21-7 | 21-10 | 22-1 | 22-5 | 22-8 | 22-11 | 23-2 | 23-6 |
| 500.00 | 23-3 | 23-7 | 23-11 | 24-3 | 24-6 | 24-10 | 25-2 | 25-5 | 25-9 | 26-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 |
| 225.00 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-3 |
| 250.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-6 |
| 275.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 |
| 300.00 | 8-5 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 |
| 325.00 | 9-11 | 10-0 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 |
| 350.00 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-8 | 12-9 |
| 375.00 | 13-2 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-8 |
| 400.00 | 15-0 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 | 16-3 | 16-5 | 16-7 | 16-9 |
| 425.00 | 16-11 | 17-2 | 17-5 | 17-8 | 17-10 | 18-1 | 18-4 | 18-6 | 18-9 | 18-10 |
| 450.00 | 19-0 | 19-3 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-2 |
| 475.00 | 21-2 | 21-5 | 21-9 | 22-0 | 22-4 | 22-7 | 22-11 | 23-2 | 23-5 | 23-7 |
| 500.00 | 23-5 | 23-9 | 24-1 | 24-5 | 24-9 | 25-1 | 25-4 | 25-8 | 25-11 | 26-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 |
| 275.00 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 |
| 300.00 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 |
| 325.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 |
| 350.00 | 11-8 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 |
| 375.00 | 13-5 | 13-6 | 13-7 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-5 |
| 400.00 | 15-3 | 15-4 | 15-6 | 15-7 | 15-9 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 |
| 425.00 | 17-2 | 17-4 | 17-6 | 17-8 | 17-9 | 17-11 | 18-1 | 18-2 | 18-4 | 18-6 |
| 450.00 | 19-3 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 |
| 475.00 | 21-6 | 21-8 | 21-10 | 22-0 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 |
| 500.00 | 23-10 | 24-0 | 24-3 | 24-5 | 24-8 | 24-10 | 25-0 | 25-3 | 25-5 | 25-7 |
| 525.00 | 26-3 | 26-6 | 26-9 | 26-11 | 27-2 | 27-5 | 27-7 | 27-10 | 28-0 | 28-3 |
| 550.00 | 28-10 | 29-1 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 | 30-6 | 30-9 | 31-0 |
| 575.00 | 31-6 | 31-10 | 32-1 | 32-4 | 32-7 | 32-10 | 33-1 | 33-5 | 33-8 | 33-11 |
| 600.00 | 34-4 | 34-8 | 34-11 | 35-3 | 35-6 | 35-10 | 36-1 | 36-4 | 36-8 | 36-11 |
| 625.00 | 37-3 | 37-7 | 37-11 | 38-3 | 38-7 | 38-10 | 39-2 | 39-6 | 39-9 | 40-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 |
| 275.00 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 |
| 300.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 |
| 325.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 |
| 350.00 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 |
| 375.00 | 13-5 | 13-7 | 13-8 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-5 |
| 400.00 | 15-4 | 15-5 | 15-7 | 15-8 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-5 |
| 425.00 | 17-3 | 17-5 | 17-7 | 17-9 | 17-11 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 |
| 450.00 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-6 | 20-8 | 20-10 |
| 475.00 | 21-7 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-9 | 22-11 | 23-1 | 23-2 |
| 500.00 | 23-11 | 24-2 | 24-4 | 24-7 | 24-9 | 25-0 | 25-2 | 25-4 | 25-7 | 25-8 |
| 525.00 | 26-5 | 26-8 | 26-10 | 27-1 | 27-4 | 27-7 | 27-9 | 28-0 | 28-2 | 28-4 |
| 550.00 | 29-0 | 29-3 | 29-6 | 29-9 | 30-0 | 30-3 | 30-6 | 30-9 | 30-11 | 31-1 |
| 575.00 | 31-8 | 32-0 | 32-3 | 32-6 | 32-10 | 33-1 | 33-4 | 33-7 | 33-10 | 34-0 |
| 600.00 | 34-6 | 34-10 | 35-2 | 35-5 | 35-9 | 36-0 | 36-4 | 36-7 | 36-10 | 37-1 |
| 625.00 | 37-6 | 37-10 | 38-2 | 38-5 | 38-9 | 39-1 | 39-5 | 39-9 | 40-0 | 40-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 0.75 | 1313 | 0.65 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 0.28 | 1961 | 0.26 | 2084 |
| 30 | 0 | 0 | 0 | 0.44 | 0.34 | 1635 | 0.3 | 1822 |
| 40 | 0 | 0 | 0 | 0.44 | 0.41 | 1329 | 0.35 | 1563 |
| 50 | 0 | 0 | 0 | 0.44 | 0.52 | 1060 | 0.42 | 1313 |
| 60 | 0 | 0 | 0 | 0.44 | 0.65 | 842 | 0.51 | 1082 |
| 70 | 0 | 0 | 0 | 0.44 | 0.81 | 683 | 0.62 | 883 |
| 80 | 0 | 0 | 0 | 0.44 | 0.96 | 571 | 0.76 | 725 |
| 90 | 0 | 0 | 0 | 0.44 | 1.06 | 520 | 0.9 | 608 |
| 100 | 0 | 0 | 0 | 0.44 | 1.13 | 486 | 1.05 | 524 |
| 110 | 0 | 0 | 0 | 0.44 | 1.21 | 456 | 1.19 | 462 |
| 120 | 0 | 0 | 0 | 0.44 | 1.29 | 428 | 1.29 | 428 |
| 130 | 0 | 0 | 0 | 0.44 | 1.36 | 405 | 1.36 | 405 |
| 167 | 0 | 0 | 0 | 0.44 | 1.63 | 338 | 1.63 | 338 |
| 212 | 0 | 0 | 0 | 0.44 | 1.93 | 286 | 1.93 | 286 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 2.79 | 1406 | 2.61 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 1.63 | 1348 | 1.47 | 1497 |
| 30 | 0 | 0 | 0 | 0.44 | 1.87 | 1176 | 1.66 | 1322 |
| 40 | 0 | 0 | 0 | 0.44 | 2.12 | 1039 | 1.88 | 1173 |
| 50 | 0 | 0 | 0 | 0.44 | 2.37 | 929 | 2.1 | 1047 |
| 60 | 0 | 0 | 0 | 0.44 | 2.61 | 842 | 2.33 | 944 |
| 70 | 0 | 0 | 0 | 0.44 | 2.85 | 772 | 2.56 | 860 |
| 80 | 0 | 0 | 0 | 0.44 | 3.08 | 715 | 2.79 | 790 |
| 90 | 0 | 0 | 0 | 0.44 | 3.3 | 668 | 3.01 | 733 |
| 100 | 0 | 0 | 0 | 0.44 | 3.47 | 634 | 3.22 | 684 |
| 110 | 0 | 0 | 0 | 0.44 | 3.59 | 613 | 3.42 | 644 |
| 120 | 0 | 0 | 0 | 0.44 | 3.71 | 594 | 3.62 | 608 |
| 130 | 0 | 0 | 0 | 0.44 | 3.82 | 576 | 3.81 | 578 |
| 167 | 0 | 0 | 0 | 0.44 | 4.24 | 520 | 4.24 | 520 |
| 212 | 0 | 0 | 0 | 0.44 | 4.71 | 468 | 4.71 | 468 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 6.1 | 1448 | 5.88 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 4.71 | 1051 | 4.42 | 1120 |
| 30 | 0 | 0 | 0 | 0.44 | 5.02 | 987 | 4.71 | 1051 |
| 40 | 0 | 0 | 0 | 0.44 | 5.32 | 932 | 5 | 991 |
| 50 | 0 | 0 | 0 | 0.44 | 5.61 | 884 | 5.28 | 938 |
| 60 | 0 | 0 | 0 | 0.44 | 5.88 | 843 | 5.56 | 892 |
| 70 | 0 | 0 | 0 | 0.44 | 6.15 | 806 | 5.82 | 851 |
| 80 | 0 | 0 | 0 | 0.44 | 6.42 | 773 | 6.08 | 815 |
| 90 | 0 | 0 | 0 | 0.44 | 6.67 | 743 | 6.34 | 783 |
| 100 | 0 | 0 | 0 | 0.44 | 6.92 | 717 | 6.58 | 753 |
| 110 | 0 | 0 | 0 | 0.44 | 7.12 | 697 | 6.82 | 727 |
| 120 | 0 | 0 | 0 | 0.44 | 7.26 | 684 | 7.06 | 703 |
| 130 | 0 | 0 | 0 | 0.44 | 7.4 | 671 | 7.29 | 681 |
| 167 | 0 | 0 | 0 | 0.44 | 7.91 | 627 | 7.91 | 627 |
| 212 | 0 | 0 | 0 | 0.44 | 8.51 | 584 | 8.51 | 584 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 10.7 | 1468 | 10.47 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 9.26 | 952 | 8.94 | 986 |
| 30 | 0 | 0 | 0 | 0.44 | 9.58 | 921 | 9.25 | 953 |
| 40 | 0 | 0 | 0 | 0.44 | 9.88 | 893 | 9.55 | 924 |
| 50 | 0 | 0 | 0 | 0.44 | 10.18 | 867 | 9.84 | 896 |
| 60 | 0 | 0 | 0 | 0.44 | 10.47 | 843 | 10.13 | 871 |
| 70 | 0 | 0 | 0 | 0.44 | 10.76 | 820 | 10.41 | 848 |
| 80 | 0 | 0 | 0 | 0.44 | 11.04 | 800 | 10.68 | 826 |
| 90 | 0 | 0 | 0 | 0.44 | 11.31 | 780 | 10.95 | 806 |
| 100 | 0 | 0 | 0 | 0.44 | 11.58 | 762 | 11.22 | 787 |
| 110 | 0 | 0 | 0 | 0.44 | 11.84 | 746 | 11.48 | 769 |
| 120 | 0 | 0 | 0 | 0.44 | 12.02 | 735 | 11.74 | 752 |
| 130 | 0 | 0 | 0 | 0.44 | 12.18 | 725 | 11.99 | 737 |
| 167 | 0 | 0 | 0 | 0.44 | 12.75 | 693 | 12.75 | 693 |
| 212 | 0 | 0 | 0 | 0.44 | 13.43 | 658 | 13.43 | 658 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 16.63 | 1478 | 16.39 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 15.17 | 910 | 14.84 | 930 |
| 30 | 0 | 0 | 0 | 0.44 | 15.48 | 892 | 15.15 | 911 |
| 40 | 0 | 0 | 0 | 0.44 | 15.79 | 874 | 15.45 | 894 |
| 50 | 0 | 0 | 0 | 0.44 | 16.09 | 858 | 15.74 | 877 |
| 60 | 0 | 0 | 0 | 0.44 | 16.39 | 843 | 16.04 | 861 |
| 70 | 0 | 0 | 0 | 0.44 | 16.68 | 828 | 16.32 | 846 |
| 80 | 0 | 0 | 0 | 0.44 | 16.97 | 814 | 16.61 | 832 |
| 90 | 0 | 0 | 0 | 0.44 | 17.26 | 801 | 16.89 | 818 |
| 100 | 0 | 0 | 0 | 0.44 | 17.54 | 788 | 17.16 | 805 |
| 110 | 0 | 0 | 0 | 0.44 | 17.81 | 776 | 17.44 | 792 |
| 120 | 0 | 0 | 0 | 0.44 | 18.04 | 766 | 17.7 | 781 |
| 130 | 0 | 0 | 0 | 0.44 | 18.21 | 759 | 17.97 | 769 |
| 167 | 0 | 0 | 0 | 0.44 | 18.83 | 734 | 18.83 | 734 |
| 212 | 0 | 0 | 0 | 0.44 | 19.57 | 707 | 19.57 | 707 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 |
| 150.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 | 2-8 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-7 | 1-11 | 2-4 | 2-9 | 3-3 | 3-8 |
| 200.00 | 1-1 | 1-2 | 1-5 | 1-8 | 2-0 | 2-6 | 3-0 | 3-7 | 4-2 | 4-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-2 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-9 | 1-11 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-2 | 2-5 | 2-7 | 2-9 |
| 175.00 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-6 | 2-11 | 3-3 | 3-6 | 3-8 |
| 200.00 | 1-1 | 1-4 | 1-8 | 2-1 | 2-7 | 3-3 | 3-10 | 4-3 | 4-6 | 4-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 175.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-7 |
| 200.00 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 |
| 225.00 | 1-10 | 2-1 | 2-5 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 |
| 250.00 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0- 9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 |
| 200.00 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-6 | 3-7 |
| 225.00 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-7 |
| 250.00 | 2-7 | 2-11 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-5 | 5-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 |
| 175.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 200.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 |
| 225.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 |
| 250.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 |
| 275.00 | 3-9 | 4-0 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-9 |
| 300.00 | 4-5 | 4-9 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 |
| 325.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 | 8-0 |
| 350.00 | 6-0 | 6-5 | 6-10 | 7-2 | 7-7 | 7-11 | 8-3 | 8-8 | 9-0 | 9-3 |
| 375.00 | 6-11 | 7-4 | 7-10 | 8-3 | 8-8 | 9-1 | 9-6 | 9-11 | 10-3 | 10-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 |
| 175.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 |
| 225.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 |
| 250.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 4-11 |
| 275.00 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 |
| 300.00 | 4-9 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-1 |
| 325.00 | 5-6 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 | 7-6 | 7-10 | 8-1 | 8-4 |
| 350.00 | 6-5 | 6-10 | 7-3 | 7-8 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-8 |
| 375.00 | 7-4 | 7-10 | 8-4 | 8-9 | 9-2 | 9-7 | 10-0 | 10-5 | 10-10 | 11-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 |
| 225.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 |
| 250.00 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 |
| 275.00 | 4-3 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 |
| 300.00 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-5 |
| 325.00 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 |
| 350.00 | 6-10 | 7-1 | 7-4 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-7 | 8-9 |
| 375.00 | 7-10 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-10 | 10-1 |
| 400.00 | 8-11 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-8 | 10-11 | 11-3 | 11-6 |
| 425.00 | 10-1 | 10-5 | 10-9 | 11-1 | 11-5 | 11-9 | 12-1 | 12-4 | 12-8 | 13-0 |
| 450.00 | 11-4 | 11-9 | 12-1 | 12-5 | 12-10 | 13-2 | 13-6 | 13-10 | 14-2 | 14-6 |
| 475.00 | 12-7 | 13-1 | 13-6 | 13-11 | 14-3 | 14-8 | 15-1 | 15-5 | 15-10 | 16-2 |
| 500.00 | 14-0 | 14-5 | 14-11 | 15-5 | 15-10 | 16-3 | 16-8 | 17-2 | 17-7 | 17-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 |
| 225.00 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 250.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 |
| 275.00 | 4-5 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 |
| 300.00 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-8 |
| 325.00 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 |
| 350.00 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 |
| 375.00 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 |
| 400.00 | 9-3 | 9-7 | 9-11 | 10-2 | 10-6 | 10-9 | 11-0 | 11-4 | 11-7 | 11-10 |
| 425.00 | 10-6 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 | 12-6 | 12-9 | 13-1 | 13-4 |
| 450.00 | 11-9 | 12-1 | 12-6 | 12-11 | 13-3 | 13-7 | 14-0 | 14-4 | 14-8 | 15-0 |
| 475.00 | 13-1 | 13-6 | 13-11 | 14-4 | 14-9 | 15-2 | 15-7 | 16-0 | 16-4 | 16-9 |
| 500.00 | 14-6 | 15-0 | 15-5 | 15-11 | 16-4 | 16-10 | 17-3 | 17-8 | 18-1 | 18-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 |
| 275.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 300.00 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 |
| 325.00 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 |
| 350.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 |
| 375.00 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 |
| 400.00 | 9-6 | 9-8 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-10 | 11-0 | 11-2 |
| 425.00 | 10-9 | 10-11 | 11-2 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 | 12-5 | 12-7 |
| 450.00 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-5 | 13-8 | 13-11 | 14-1 |
| 475.00 | 13-5 | 13-8 | 13-11 | 14-2 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 |
| 500.00 | 14-10 | 15-2 | 15-5 | 15-9 | 16-0 | 16-4 | 16-7 | 16-11 | 17-2 | 17-5 |
| 525.00 | 16-4 | 16-8 | 17-0 | 17-4 | 17-8 | 18-0 | 18-4 | 18-7 | 18-11 | 19-3 |
| 550.00 | 18-0 | 18-4 | 18-8 | 19-1 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 |
| 575.00 | 19-8 | 20-0 | 20-5 | 20-10 | 21-3 | 21-7 | 22-0 | 22-4 | 22-9 | 23-1 |
| 600.00 | 21-5 | 21-10 | 22-3 | 22-8 | 23-1 | 23-6 | 23-11 | 24-4 | 24-9 | 25-1 |
| 625.00 | 23-2 | 23-8 | 24-2 | 24-7 | 25-1 | 25-6 | 26-0 | 26-5 | 26-10 | 27-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 |
| 275.00 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 |
| 300.00 | 5-5 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-2 | 6-4 | 6-5 |
| 325.00 | 6-5 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 | 7-6 |
| 350.00 | 7-5 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 | 8-4 | 8-5 | 8-7 | 8-9 |
| 375.00 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-5 | 9-6 | 9-8 | 9-10 | 10-0 |
| 400.00 | 9-8 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-3 | 11-5 |
| 425.00 | 10-11 | 11-2 | 11-5 | 11-7 | 11-10 | 12-1 | 12-3 | 12-6 | 12-8 | 12-10 |
| 450.00 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-2 | 14-5 |
| 475.00 | 13-8 | 14-0 | 14-3 | 14-6 | 14-9 | 15-1 | 15-4 | 15-7 | 15-10 | 16-1 |
| 500.00 | 15-2 | 15-6 | 15-9 | 16-1 | 16-5 | 16-8 | 17-0 | 17-3 | 17-6 | 17-10 |
| 525.00 | 16-9 | 17-1 | 17-5 | 17-9 | 18-1 | 18-5 | 18-9 | 19-0 | 19-4 | 19-8 |
| 550.00 | 18-4 | 18-9 | 19-1 | 19-6 | 19-10 | 20-2 | 20-7 | 20-11 | 21-3 | 21-7 |
| 575.00 | 20-1 | 20-6 | 20-11 | 21-3 | 21-8 | 22-1 | 22-5 | 22-10 | 23-2 | 23-7 |
| 600.00 | 21-10 | 22-4 | 22-9 | 23-2 | 23-7 | 24-0 | 24-5 | 24-10 | 25-3 | 25-8 |
| 625.00 | 23-9 | 24-2 | 24-8 | 25-2 | 25-8 | 26-1 | 26-6 | 27-0 | 27-5 | 27-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 0.6 | 1634 | 0.49 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.23 | 2431 | 0.21 | 2675 |
| 30 | 0 | 0 | 0 | 0.44 | 0.26 | 2091 | 0.23 | 2415 |
| 40 | 0 | 0 | 0 | 0.44 | 0.31 | 1759 | 0.26 | 2152 |
| 50 | 0 | 0 | 0 | 0.44 | 0.38 | 1445 | 0.29 | 1888 |
| 60 | 0 | 0 | 0 | 0.44 | 0.47 | 1159 | 0.34 | 1625 |
| 70 | 0 | 0 | 0 | 0.44 | 0.6 | 920 | 0.4 | 1370 |
| 80 | 0 | 0 | 0 | 0.44 | 0.75 | 738 | 0.49 | 1132 |
| 90 | 0 | 0 | 0 | 0.44 | 0.84 | 658 | 0.6 | 924 |
| 100 | 0 | 0 | 0 | 0.44 | 0.9 | 609 | 0.73 | 756 |
| 110 | 0 | 0 | 0 | 0.44 | 0.97 | 564 | 0.87 | 630 |
| 120 | 0 | 0 | 0 | 0.44 | 1.05 | 525 | 1.02 | 539 |
| 130 | 0 | 0 | 0 | 0.44 | 1.12 | 490 | 1.12 | 492 |
| 167 | 0 | 0 | 0 | 0.44 | 1.4 | 393 | 1.4 | 394 |
| 212 | 0 | 0 | 0 | 0.44 | 1.72 | 320 | 1.72 | 321 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 2.21 | 1772 | 1.96 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 1.09 | 2022 | 0.96 | 2302 |
| 30 | 0 | 0 | 0 | 0.44 | 1.26 | 1752 | 1.06 | 2068 |
| 40 | 0 | 0 | 0 | 0.44 | 1.45 | 1514 | 1.19 | 1843 |
| 50 | 0 | 0 | 0 | 0.44 | 1.68 | 1312 | 1.35 | 1631 |
| 60 | 0 | 0 | 0 | 0.44 | 1.92 | 1147 | 1.53 | 1439 |
| 70 | 0 | 0 | 0 | 0.44 | 2.17 | 1015 | 1.73 | 1271 |
| 80 | 0 | 0 | 0 | 0.44 | 2.42 | 911 | 1.95 | 1129 |
| 90 | 0 | 0 | 0 | 0.44 | 2.66 | 828 | 2.18 | 1010 |
| 100 | 0 | 0 | 0 | 0.44 | 2.85 | 771 | 2.41 | 913 |
| 110 | 0 | 0 | 0 | 0.44 | 2.97 | 740 | 2.64 | 834 |
| 120 | 0 | 0 | 0 | 0.44 | 3.09 | 712 | 2.86 | 769 |
| 130 | 0 | 0 | 0 | 0.44 | 3.21 | 685 | 3.08 | 714 |
| 167 | 0 | 0 | 0 | 0.44 | 3.65 | 604 | 3.64 | 605 |
| 212 | 0 | 0 | 0 | 0.44 | 4.16 | 530 | 4.15 | 531 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 4.75 | 1856 | 4.41 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 3.05 | 1622 | 2.68 | 1850 |
| 30 | 0 | 0 | 0 | 0.44 | 3.37 | 1468 | 2.94 | 1687 |
| 40 | 0 | 0 | 0 | 0.44 | 3.7 | 1338 | 3.21 | 1541 |
| 50 | 0 | 0 | 0 | 0.44 | 4.03 | 1230 | 3.5 | 1414 |
| 60 | 0 | 0 | 0 | 0.44 | 4.35 | 1139 | 3.8 | 1304 |
| 70 | 0 | 0 | 0 | 0.44 | 4.67 | 1062 | 4.1 | 1208 |
| 80 | 0 | 0 | 0 | 0.44 | 4.97 | 996 | 4.4 | 1126 |
| 90 | 0 | 0 | 0 | 0.44 | 5.27 | 940 | 4.69 | 1056 |
| 100 | 0 | 0 | 0 | 0.44 | 5.56 | 891 | 4.98 | 994 |
| 110 | 0 | 0 | 0 | 0.44 | 5.82 | 852 | 5.27 | 941 |
| 120 | 0 | 0 | 0 | 0.44 | 5.97 | 830 | 5.54 | 894 |
| 130 | 0 | 0 | 0 | 0.44 | 6.12 | 810 | 5.81 | 853 |
| 167 | 0 | 0 | 0 | 0.44 | 6.68 | 742 | 6.67 | 744 |
| 212 | 0 | 0 | 0 | 0.44 | 7.33 | 677 | 7.32 | 678 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 8.24 | 1904 | 7.84 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 6.28 | 1402 | 5.73 | 1537 |
| 30 | 0 | 0 | 0 | 0.44 | 6.67 | 1321 | 6.09 | 1447 |
| 40 | 0 | 0 | 0 | 0.44 | 7.05 | 1250 | 6.45 | 1367 |
| 50 | 0 | 0 | 0 | 0.44 | 7.41 | 1188 | 6.8 | 1296 |
| 60 | 0 | 0 | 0 | 0.44 | 7.77 | 1134 | 7.15 | 1232 |
| 70 | 0 | 0 | 0 | 0.44 | 8.13 | 1085 | 7.49 | 1176 |
| 80 | 0 | 0 | 0 | 0.44 | 8.47 | 1041 | 7.83 | 1125 |
| 90 | 0 | 0 | 0 | 0.44 | 8.8 | 1002 | 8.16 | 1080 |
| 100 | 0 | 0 | 0 | 0.44 | 9.12 | 966 | 8.49 | 1039 |
| 110 | 0 | 0 | 0 | 0.44 | 9.44 | 934 | 8.81 | 1001 |
| 120 | 0 | 0 | 0 | 0.44 | 9.71 | 909 | 9.12 | 967 |
| 130 | 0 | 0 | 0 | 0.44 | 9.89 | 892 | 9.42 | 936 |
| 167 | 0 | 0 | 0 | 0.44 | 10.54 | 837 | 10.49 | 841 |
| 212 | 0 | 0 | 0 | 0.44 | 11.3 | 781 | 11.29 | 782 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 12.7 | 1933 | 12.27 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 10.63 | 1296 | 10.01 | 1376 |
| 30 | 0 | 0 | 0 | 0.44 | 11.03 | 1249 | 10.4 | 1325 |
| 40 | 0 | 0 | 0 | 0.44 | 11.43 | 1206 | 10.78 | 1278 |
| 50 | 0 | 0 | 0 | 0.44 | 11.81 | 1167 | 11.16 | 1235 |
| 60 | 0 | 0 | 0 | 0.44 | 12.19 | 1131 | 11.53 | 1195 |
| 70 | 0 | 0 | 0 | 0.44 | 12.56 | 1097 | 11.9 | 1158 |
| 80 | 0 | 0 | 0 | 0.44 | 12.92 | 1067 | 12.25 | 1125 |
| 90 | 0 | 0 | 0 | 0.44 | 13.28 | 1038 | 12.61 | 1093 |
| 100 | 0 | 0 | 0 | 0.44 | 13.63 | 1012 | 12.95 | 1064 |
| 110 | 0 | 0 | 0 | 0.44 | 13.97 | 987 | 13.29 | 1037 |
| 120 | 0 | 0 | 0 | 0.44 | 14.3 | 965 | 13.63 | 1012 |
| 130 | 0 | 0 | 0 | 0.44 | 14.54 | 949 | 13.95 | 988 |
| 167 | 0 | 0 | 0 | 0.44 | 15.27 | 904 | 15.12 | 912 |
| 212 | 0 | 0 | 0 | 0.44 | 16.12 | 856 | 16.1 | 857 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-2 | 1-4 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 |
| 175.00 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 | 2-3 | 2-8 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-5 | 2-11 | 3-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-4 | 1-5 | 1-6 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-8 | 1-11 | 2-0 | 2-2 |
| 175.00 | 0-8 | 0-10 | 0-11 | 1-2 | 1-5 | 1-10 | 2-3 | 2-7 | 2-9 | 3-0 |
| 200.00 | 0-11 | 1-1 | 1-3 | 1-6 | 1-11 | 2-5 | 3-0 | 3-4 | 3-7 | 3-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 |
| 200.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 |
| 225.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-6 | 2-9 | 3-1 | 3-4 |
| 250.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-5 | 2-8 | 3-1 | 3-5 | 3-9 | 4-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 175.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-10 | 3-0 |
| 225.00 | 1-5 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 | 3-1 | 3-4 | 3-7 | 3-9 |
| 250.00 | 1-8 | 2-0 | 2-3 | 2-7 | 3-0 | 3-5 | 3-9 | 4-2 | 4-6 | 4-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 |
| 225.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 250.00 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 |
| 275.00 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 |
| 300.00 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 |
| 325.00 | 3-2 | 3-5 | 3-9 | 4-1 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 |
| 350.00 | 3-8 | 4-0 | 4-4 | 4-9 | 5-2 | 5-7 | 6-0 | 6-5 | 6-9 | 7-2 |
| 375.00 | 4-2 | 4-7 | 5-0 | 5-6 | 5-11 | 6-5 | 6-10 | 7-4 | 7-9 | 8-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 |
| 175.00 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 200.00 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 |
| 225.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-3 |
| 250.00 | 2-1 | 2-4 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 |
| 275.00 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 |
| 300.00 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 |
| 325.00 | 3-7 | 4-0 | 4-4 | 4-9 | 5-1 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 |
| 350.00 | 4-2 | 4-7 | 5-0 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 7-11 |
| 375.00 | 4-9 | 5-3 | 5-9 | 6-4 | 6-10 | 7-4 | 7-9 | 8-3 | 8-8 | 9-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 |
| 250.00 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 |
| 275.00 | 2-8 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 300.00 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 325.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 |
| 350.00 | 4-5 | 4-8 | 4-11 | 5-2 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 |
| 375.00 | 5-0 | 5-4 | 5-8 | 6-0 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 | 7-9 |
| 400.00 | 5-9 | 6-1 | 6-5 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 | 8-6 | 8-10 |
| 425.00 | 6-6 | 6-10 | 7-3 | 7-8 | 8-1 | 8-6 | 8-10 | 9-3 | 9-7 | 9-11 |
| 450.00 | 7-3 | 7-8 | 8-2 | 8-7 | 9-1 | 9-6 | 9-11 | 10-4 | 10-9 | 11-2 |
| 475.00 | 8-1 | 8-7 | 9-1 | 9-7 | 10-1 | 10-7 | 11-1 | 11-6 | 12-0 | 12-5 |
| 500.00 | 8-11 | 9-6 | 10-1 | 10-8 | 11-2 | 11-9 | 12-3 | 12-9 | 13-3 | 13-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 |
| 250.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 |
| 275.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 |
| 300.00 | 3-6 | 3-9 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-2 | 5-4 |
| 325.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-0 | 6-3 |
| 350.00 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 |
| 375.00 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 | 8-0 | 8-4 |
| 400.00 | 6-3 | 6-8 | 7-1 | 7-5 | 7-9 | 8-2 | 8-6 | 8-10 | 9-1 | 9-5 |
| 425.00 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 | 9-2 | 9-7 | 9-11 | 10-4 | 10-8 |
| 450.00 | 7-11 | 8-5 | 8-11 | 9-5 | 9-10 | 10-3 | 10-9 | 11-2 | 11-7 | 11-11 |
| 475.00 | 8-10 | 9-5 | 9-11 | 10-5 | 11-0 | 11-6 | 11-11 | 12-5 | 12-10 | 13-4 |
| 500.00 | 9-10 | 10-5 | 11-0 | 11-7 | 12-2 | 12-8 | 13-3 | 13-9 | 14-3 | 14-9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 275.00 | 3-0 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 |
| 300.00 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 |
| 325.00 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 |
| 350.00 | 4-11 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 |
| 375.00 | 5-8 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-6 |
| 400.00 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 |
| 425.00 | 7-3 | 7-6 | 7-9 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 |
| 450.00 | 8-1 | 8-5 | 8-9 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-6 | 10-9 |
| 475.00 | 9-0 | 9-5 | 9-9 | 10-1 | 10-5 | 10-9 | 11-1 | 11-5 | 11-8 | 12-0 |
| 500.00 | 10-0 | 10-5 | 10-9 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 | 13-4 |
| 525.00 | 11-0 | 11-6 | 11-11 | 12-4 | 12-9 | 13-1 | 13-6 | 13-11 | 14-3 | 14-8 |
| 550.00 | 12-1 | 12-7 | 13-1 | 13-6 | 13-11 | 14-5 | 14-10 | 15-3 | 15-8 | 16-1 |
| 575.00 | 13-3 | 13-9 | 14-3 | 14-9 | 15-3 | 15-9 | 16-3 | 16-8 | 17-2 | 17-7 |
| 600.00 | 14-5 | 15-0 | 15-6 | 16-1 | 16-7 | 17-2 | 17-8 | 18-2 | 18-8 | 19-2 |
| 625.00 | 15-8 | 16-3 | 16-10 | 17-5 | 18-0 | 18-7 | 19-2 | 19-8 | 20-3 | 20-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 275.00 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-3 |
| 300.00 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 |
| 325.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-9 | 5-11 |
| 350.00 | 5-2 | 5-5 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 |
| 375.00 | 6-0 | 6-2 | 6-5 | 6-8 | 6-10 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 |
| 400.00 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-6 | 8-9 | 8-11 |
| 425.00 | 7-8 | 8-0 | 8-3 | 8-6 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 |
| 450.00 | 8-7 | 8-11 | 9-3 | 9-7 | 9-10 | 10-2 | 10-6 | 10-9 | 11-0 | 11-4 |
| 475.00 | 9-7 | 9-11 | 10-4 | 10-8 | 11-0 | 11-4 | 11-8 | 12-0 | 12-4 | 12-7 |
| 500.00 | 10-8 | 11-0 | 11-5 | 11-10 | 12-2 | 12-7 | 12-11 | 13-3 | 13-8 | 14-0 |
| 525.00 | 11-9 | 12-2 | 12-7 | 13-0 | 13-5 | 13-10 | 14-3 | 14-8 | 15-0 | 15-5 |
| 550.00 | 12-10 | 13-4 | 13-10 | 14-4 | 14-9 | 15-2 | 15-8 | 16-1 | 16-6 | 16-11 |
| 575.00 | 14-1 | 14-7 | 15-1 | 15-8 | 16-2 | 16-7 | 17-1 | 17-7 | 18-0 | 18-6 |
| 600.00 | 15-4 | 15-11 | 16-6 | 17-0 | 17-7 | 18-1 | 18-7 | 19-2 | 19-8 | 20-1 |
| 625.00 | 16-7 | 17-3 | 17-10 | 18-6 | 19-1 | 19-8 | 20-2 | 20-9 | 21-4 | 21-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 0.5 | 1944 | 0.39 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 0.19 | 2824 | 0.17 | 3201 |
| 30 | 0 | 0 | 0 | 0.44 | 0.22 | 2477 | 0.19 | 2948 |
| 40 | 0 | 0 | 0 | 0.44 | 0.26 | 2135 | 0.2 | 2690 |
| 50 | 0 | 0 | 0 | 0.44 | 0.31 | 1802 | 0.23 | 2428 |
| 60 | 0 | 0 | 0 | 0.44 | 0.37 | 1485 | 0.25 | 2163 |
| 70 | 0 | 0 | 0 | 0.44 | 0.46 | 1194 | 0.29 | 1897 |
| 80 | 0 | 0 | 0 | 0.44 | 0.58 | 948 | 0.34 | 1633 |
| 90 | 0 | 0 | 0 | 0.44 | 0.67 | 819 | 0.4 | 1376 |
| 100 | 0 | 0 | 0 | 0.44 | 0.73 | 757 | 0.48 | 1136 |
| 110 | 0 | 0 | 0 | 0.44 | 0.79 | 699 | 0.59 | 926 |
| 120 | 0 | 0 | 0 | 0.44 | 0.85 | 646 | 0.73 | 757 |
| 130 | 0 | 0 | 0 | 0.44 | 0.92 | 598 | 0.87 | 631 |
| 167 | 0 | 0 | 0 | 0.44 | 1.19 | 461 | 1.18 | 468 |
| 212 | 0 | 0 | 0 | 0.44 | 1.53 | 361 | 1.51 | 364 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 1.87 | 2099 | 1.57 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 0.86 | 2561 | 0.74 | 2963 |
| 30 | 0 | 0 | 0 | 0.44 | 0.98 | 2252 | 0.81 | 2720 |
| 40 | 0 | 0 | 0 | 0.44 | 1.12 | 1963 | 0.89 | 2477 |
| 50 | 0 | 0 | 0 | 0.44 | 1.3 | 1699 | 0.98 | 2236 |
| 60 | 0 | 0 | 0 | 0.44 | 1.5 | 1468 | 1.1 | 2002 |
| 70 | 0 | 0 | 0 | 0.44 | 1.73 | 1274 | 1.24 | 1778 |
| 80 | 0 | 0 | 0 | 0.44 | 1.97 | 1117 | 1.4 | 1571 |
| 90 | 0 | 0 | 0 | 0.44 | 2.22 | 991 | 1.59 | 1385 |
| 100 | 0 | 0 | 0 | 0.44 | 2.42 | 910 | 1.8 | 1223 |
| 110 | 0 | 0 | 0 | 0.44 | 2.53 | 869 | 2.02 | 1088 |
| 120 | 0 | 0 | 0 | 0.44 | 2.65 | 831 | 2.25 | 976 |
| 130 | 0 | 0 | 0 | 0.44 | 2.77 | 795 | 2.49 | 885 |
| 167 | 0 | 0 | 0 | 0.44 | 3.21 | 686 | 3.18 | 692 |
| 212 | 0 | 0 | 0 | 0.44 | 3.74 | 589 | 3.71 | 593 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 3.98 | 2218 | 3.53 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 2.23 | 2222 | 1.89 | 2615 |
| 30 | 0 | 0 | 0 | 0.44 | 2.49 | 1987 | 2.06 | 2400 |
| 40 | 0 | 0 | 0 | 0.44 | 2.78 | 1781 | 2.26 | 2194 |
| 50 | 0 | 0 | 0 | 0.44 | 3.09 | 1602 | 2.48 | 2000 |
| 60 | 0 | 0 | 0 | 0.44 | 3.41 | 1451 | 2.72 | 1821 |
| 70 | 0 | 0 | 0 | 0.44 | 3.74 | 1325 | 2.98 | 1659 |
| 80 | 0 | 0 | 0 | 0.44 | 4.07 | 1218 | 3.27 | 1516 |
| 90 | 0 | 0 | 0 | 0.44 | 4.39 | 1129 | 3.56 | 1391 |
| 100 | 0 | 0 | 0 | 0.44 | 4.7 | 1054 | 3.86 | 1283 |
| 110 | 0 | 0 | 0 | 0.44 | 4.98 | 995 | 4.16 | 1190 |
| 120 | 0 | 0 | 0 | 0.44 | 5.14 | 964 | 4.46 | 1110 |
| 130 | 0 | 0 | 0 | 0.44 | 5.3 | 936 | 4.76 | 1042 |
| 167 | 0 | 0 | 0 | 0.44 | 5.87 | 844 | 5.8 | 855 |
| 212 | 0 | 0 | 0 | 0.44 | 6.56 | 756 | 6.52 | 760 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 6.83 | 2298 | 6.27 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 4.55 | 1936 | 3.91 | 2252 |
| 30 | 0 | 0 | 0 | 0.44 | 4.94 | 1784 | 4.22 | 2089 |
| 40 | 0 | 0 | 0 | 0.44 | 5.33 | 1652 | 4.54 | 1939 |
| 50 | 0 | 0 | 0 | 0.44 | 5.73 | 1537 | 4.88 | 1804 |
| 60 | 0 | 0 | 0 | 0.44 | 6.12 | 1439 | 5.23 | 1683 |
| 70 | 0 | 0 | 0 | 0.44 | 6.51 | 1353 | 5.59 | 1575 |
| 80 | 0 | 0 | 0 | 0.44 | 6.89 | 1278 | 5.95 | 1480 |
| 90 | 0 | 0 | 0 | 0.44 | 7.26 | 1213 | 6.31 | 1395 |
| 100 | 0 | 0 | 0 | 0.44 | 7.63 | 1155 | 6.67 | 1320 |
| 110 | 0 | 0 | 0 | 0.44 | 7.98 | 1104 | 7.03 | 1254 |
| 120 | 0 | 0 | 0 | 0.44 | 8.3 | 1061 | 7.37 | 1195 |
| 130 | 0 | 0 | 0 | 0.44 | 8.49 | 1038 | 7.72 | 1142 |
| 167 | 0 | 0 | 0 | 0.44 | 9.18 | 960 | 8.92 | 988 |
| 212 | 0 | 0 | 0 | 0.44 | 10 | 882 | 9.95 | 886 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 10.43 | 2351 | 9.81 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 7.85 | 1754 | 6.98 | 1972 |
| 30 | 0 | 0 | 0 | 0.44 | 8.3 | 1658 | 7.39 | 1863 |
| 40 | 0 | 0 | 0 | 0.44 | 8.75 | 1573 | 7.8 | 1764 |
| 50 | 0 | 0 | 0 | 0.44 | 9.2 | 1497 | 8.22 | 1675 |
| 60 | 0 | 0 | 0 | 0.44 | 9.63 | 1430 | 8.63 | 1595 |
| 70 | 0 | 0 | 0 | 0.44 | 10.06 | 1369 | 9.04 | 1523 |
| 80 | 0 | 0 | 0 | 0.44 | 10.47 | 1315 | 9.45 | 1457 |
| 90 | 0 | 0 | 0 | 0.44 | 10.88 | 1266 | 9.85 | 1398 |
| 100 | 0 | 0 | 0 | 0.44 | 11.28 | 1221 | 10.25 | 1344 |
| 110 | 0 | 0 | 0 | 0.44 | 11.67 | 1181 | 10.64 | 1295 |
| 120 | 0 | 0 | 0 | 0.44 | 12.05 | 1144 | 11.02 | 1250 |
| 130 | 0 | 0 | 0 | 0.44 | 12.38 | 1114 | 11.4 | 1209 |
| 167 | 0 | 0 | 0 | 0.44 | 13.16 | 1048 | 12.74 | 1082 |
| 212 | 0 | 0 | 0 | 0.44 | 14.08 | 979 | 14.04 | 983 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-5 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-4 | 1-6 | 1-8 | 1-9 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-3 | 2-5 |
| 200.00 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 | 2-4 | 2-8 | 2-11 | 3-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 |
| 250.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-9 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 |
| 175.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 1-11 |
| 200.00 | 0-10 | 1-0 | 1-1 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-6 |
| 225.00 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-6 | 2-10 | 3-1 | 3-2 |
| 250.00 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 | 3-1 | 3-6 | 3-9 | 4-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 175.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 |
| 225.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 250.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 |
| 275.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 |
| 300.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 |
| 325.00 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-11 |
| 350.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 |
| 375.00 | 2-11 | 3-3 | 3-6 | 3-10 | 4-3 | 4-8 | 5-1 | 5-7 | 6-0 | 6-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 |
| 200.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 225.00 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 |
| 250.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 |
| 275.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 |
| 300.00 | 2-3 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-8 | 5-0 |
| 325.00 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 |
| 350.00 | 3-0 | 3-5 | 3-9 | 4-2 | 4-8 | 5-1 | 5-6 | 6-0 | 6-5 | 6-9 |
| 375.00 | 3-6 | 3-11 | 4-4 | 4-10 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.149

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 225.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 |
| 250.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 |
| 275.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 300.00 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 |
| 325.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 |
| 350.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 | 5-5 |
| 375.00 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 |
| 400.00 | 3-11 | 4-3 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-4 | 6-8 | 7-0 |
| 425.00 | 4-5 | 4-9 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-6 | 7-11 |
| 450.00 | 4-11 | 5-4 | 5-9 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-5 | 8-11 |
| 475.00 | 5-6 | 5-11 | 6-5 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-5 | 9-11 |
| 500.00 | 6-1 | 6-7 | 7-1 | 7-8 | 8-2 | 8-9 | 9-4 | 9-10 | 10-5 | 11-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 225.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 |
| 250.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-1 |
| 275.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 |
| 300.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 |
| 325.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 |
| 350.00 | 3-6 | 3-9 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 |
| 375.00 | 4-0 | 4-4 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 | 6-5 | 6-8 | 7-0 |
| 400.00 | 4-7 | 4-11 | 5-4 | 5-9 | 6-1 | 6-6 | 6-11 | 7-3 | 7-8 | 8-0 |
| 425.00 | 5-2 | 5-7 | 6-0 | 6-6 | 6-11 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 |
| 450.00 | 5-9 | 6-3 | 6-9 | 7-3 | 7-9 | 8-3 | 8-9 | 9-2 | 9-8 | 10-1 |
| 475.00 | 6-5 | 7-0 | 7-6 | 8-1 | 8-8 | 9-2 | 9-9 | 10-3 | 10-9 | 11-3 |
| 500.00 | 7-1 | 7-9 | 8-4 | 8-11 | 9-7 | 10-2 | 10-9 | 11-4 | 11-11 | 12-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 |
| 275.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 |
| 300.00 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 |
| 325.00 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 |
| 350.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 | 5-3 |
| 375.00 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 |
| 400.00 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 6-1 | 6-4 | 6-7 | 6-10 |
| 425.00 | 5-1 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 |
| 450.00 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-7 |
| 475.00 | 6-4 | 6-8 | 7-0 | 7-5 | 7-9 | 8-2 | 8-6 | 8-11 | 9-3 | 9-7 |
| 500.00 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 | 9-0 | 9-5 | 9-10 | 10-3 | 10-8 |
| 525.00 | 7-8 | 8-2 | 8-7 | 9-1 | 9-6 | 10-0 | 10-5 | 10-10 | 11-4 | 11-9 |
| 550.00 | 8-5 | 8-11 | 9-5 | 9-11 | 10-5 | 10-11 | 11-5 | 11-11 | 12-5 | 12-10 |
| 575.00 | 9-3 | 9-9 | 10-4 | 10-10 | 11-5 | 12-0 | 12-6 | 13-0 | 13-7 | 14-1 |
| 600.00 | 10-1 | 10-8 | 11-3 | 11-10 | 12-5 | 13-0 | 13-7 | 14-2 | 14-9 | 15-4 |
| 625.00 | 10-11 | 11-7 | 12-2 | 12-10 | 13-6 | 14-2 | 14-9 | 15-5 | 16-0 | 16-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 |
| 275.00 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 |
| 300.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-1 | 4-2 |
| 325.00 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 350.00 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 | 5-9 |
| 375.00 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 | 6-1 | 6-4 | 6-7 |
| 400.00 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 |
| 425.00 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 |
| 450.00 | 6-4 | 6-9 | 7-1 | 7-5 | 7-10 | 8-2 | 8-6 | 8-10 | 9-2 | 9-5 |
| 475.00 | 7-1 | 7-6 | 7-11 | 8-4 | 8-8 | 9-1 | 9-5 | 9-10 | 10-2 | 10-6 |
| 500.00 | 7-10 | 8-4 | 8-9 | 9-2 | 9-8 | 10-1 | 10-6 | 10-11 | 11-3 | 11-8 |
| 525.00 | 8-8 | 9-2 | 9-8 | 10-2 | 10-7 | 11-1 | 11-7 | 12-0 | 12-5 | 12-10 |
| 550.00 | 9-6 | 10-1 | 10-7 | 11-2 | 11-8 | 12-2 | 12-8 | 13-2 | 13-8 | 14-1 |
| 575.00 | 10-5 | 11-0 | 11-7 | 12-2 | 12-9 | 13-4 | 13-10 | 14-5 | 14-11 | 15-5 |
| 600.00 | 11-4 | 12-0 | 12-7 | 13-3 | 13-10 | 14-6 | 15-1 | 15-8 | 16-3 | 16-10 |
| 625.00 | 12-3 | 13-0 | 13-8 | 14-4 | 15-1 | 15-9 | 16-4 | 17-0 | 17-8 | 18-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 0.43 | 2257 | 0.33 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.17 | 3187 | 0.15 | 3701 |
| 30 | 0 | 0 | 0 | 0.44 | 0.19 | 2837 | 0.16 | 3456 |
| 40 | 0 | 0 | 0 | 0.44 | 0.22 | 2491 | 0.17 | 3206 |
| 50 | 0 | 0 | 0 | 0.44 | 0.26 | 2149 | 0.19 | 2951 |
| 60 | 0 | 0 | 0 | 0.44 | 0.3 | 1815 | 0.2 | 2691 |
| 70 | 0 | 0 | 0 | 0.44 | 0.37 | 1497 | 0.23 | 2427 |
| 80 | 0 | 0 | 0 | 0.44 | 0.46 | 1205 | 0.25 | 2161 |
| 90 | 0 | 0 | 0 | 0.44 | 0.55 | 1000 | 0.29 | 1893 |
| 100 | 0 | 0 | 0 | 0.44 | 0.59 | 929 | 0.34 | 1627 |
| 110 | 0 | 0 | 0 | 0.44 | 0.64 | 860 | 0.4 | 1369 |
| 120 | 0 | 0 | 0 | 0.44 | 0.69 | 795 | 0.49 | 1128 |
| 130 | 0 | 0 | 0 | 0.44 | 0.75 | 734 | 0.6 | 918 |
| 167 | 0 | 0 | 0 | 0.44 | 1 | 551 | 0.96 | 570 |
| 212 | 0 | 0 | 0 | 0.44 | 1.33 | 412 | 1.3 | 423 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 1.63 | 2409 | 1.31 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.73 | 3012 | 0.62 | 3541 |
| 30 | 0 | 0 | 0 | 0.44 | 0.82 | 2686 | 0.67 | 3301 |
| 40 | 0 | 0 | 0 | 0.44 | 0.93 | 2371 | 0.72 | 3058 |
| 50 | 0 | 0 | 0 | 0.44 | 1.06 | 2073 | 0.78 | 2812 |
| 60 | 0 | 0 | 0 | 0.44 | 1.22 | 1798 | 0.86 | 2567 |
| 70 | 0 | 0 | 0 | 0.44 | 1.42 | 1554 | 0.95 | 2323 |
| 80 | 0 | 0 | 0 | 0.44 | 1.64 | 1346 | 1.06 | 2084 |
| 90 | 0 | 0 | 0 | 0.44 | 1.87 | 1174 | 1.19 | 1854 |
| 100 | 0 | 0 | 0 | 0.44 | 2.07 | 1061 | 1.34 | 1639 |
| 110 | 0 | 0 | 0 | 0.44 | 2.18 | 1010 | 1.52 | 1444 |
| 120 | 0 | 0 | 0 | 0.44 | 2.29 | 962 | 1.73 | 1273 |
| 130 | 0 | 0 | 0 | 0.44 | 2.4 | 917 | 1.95 | 1129 |
| 167 | 0 | 0 | 0 | 0.44 | 2.83 | 777 | 2.78 | 792 |
| 212 | 0 | 0 | 0 | 0.44 | 3.37 | 653 | 3.32 | 664 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 3.46 | 2548 | 2.94 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 1.79 | 2759 | 1.5 | 3292 |
| 30 | 0 | 0 | 0 | 0.44 | 2 | 2478 | 1.62 | 3063 |
| 40 | 0 | 0 | 0 | 0.44 | 2.23 | 2218 | 1.75 | 2836 |
| 50 | 0 | 0 | 0 | 0.44 | 2.5 | 1984 | 1.89 | 2613 |
| 60 | 0 | 0 | 0 | 0.44 | 2.79 | 1778 | 2.07 | 2396 |
| 70 | 0 | 0 | 0 | 0.44 | 3.09 | 1600 | 2.26 | 2188 |
| 80 | 0 | 0 | 0 | 0.44 | 3.42 | 1449 | 2.49 | 1992 |
| 90 | 0 | 0 | 0 | 0.44 | 3.74 | 1323 | 2.73 | 1813 |
| 100 | 0 | 0 | 0 | 0.44 | 4.07 | 1217 | 3 | 1651 |
| 110 | 0 | 0 | 0 | 0.44 | 4.36 | 1137 | 3.28 | 1508 |
| 120 | 0 | 0 | 0 | 0.44 | 4.51 | 1098 | 3.58 | 1383 |
| 130 | 0 | 0 | 0 | 0.44 | 4.67 | 1062 | 3.88 | 1276 |
| 167 | 0 | 0 | 0 | 0.44 | 5.25 | 945 | 4.99 | 994 |
| 212 | 0 | 0 | 0 | 0.44 | 5.95 | 834 | 5.88 | 844 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 5.9 | 2656 | 5.23 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 3.53 | 2490 | 2.95 | 2986 |
| 30 | 0 | 0 | 0 | 0.44 | 3.87 | 2272 | 3.16 | 2782 |
| 40 | 0 | 0 | 0 | 0.44 | 4.24 | 2078 | 3.4 | 2586 |
| 50 | 0 | 0 | 0 | 0.44 | 4.62 | 1907 | 3.67 | 2399 |
| 60 | 0 | 0 | 0 | 0.44 | 5.01 | 1759 | 3.96 | 2223 |
| 70 | 0 | 0 | 0 | 0.44 | 5.4 | 1630 | 4.27 | 2061 |
| 80 | 0 | 0 | 0 | 0.44 | 5.8 | 1519 | 4.6 | 1913 |
| 90 | 0 | 0 | 0 | 0.44 | 6.19 | 1422 | 4.95 | 1779 |
| 100 | 0 | 0 | 0 | 0.44 | 6.58 | 1339 | 5.3 | 1660 |
| 110 | 0 | 0 | 0 | 0.44 | 6.96 | 1266 | 5.67 | 1554 |
| 120 | 0 | 0 | 0 | 0.44 | 7.31 | 1206 | 6.03 | 1461 |
| 130 | 0 | 0 | 0 | 0.44 | 7.5 | 1175 | 6.39 | 1378 |
| 167 | 0 | 0 | 0 | 0.44 | 8.2 | 1075 | 7.7 | 1145 |
| 212 | 0 | 0 | 0 | 0.44 | 9.04 | 975 | 8.96 | 984 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.783 | 8.96 | 2735 | 8.17 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 6.07 | 2267 | 5.13 | 2679 |
| 30 | 0 | 0 | 0 | 0.44 | 6.52 | 2111 | 5.47 | 2513 |
| 40 | 0 | 0 | 0 | 0.44 | 6.98 | 1972 | 5.83 | 2358 |
| 50 | 0 | 0 | 0 | 0.44 | 7.44 | 1851 | 6.21 | 2214 |
| 60 | 0 | 0 | 0 | 0.44 | 7.9 | 1743 | 6.61 | 2083 |
| 70 | 0 | 0 | 0 | 0.44 | 8.35 | 1648 | 7.01 | 1962 |
| 80 | 0 | 0 | 0 | 0.44 | 8.8 | 1564 | 7.42 | 1853 |
| 90 | 0 | 0 | 0 | 0.44 | 9.24 | 1490 | 7.84 | 1755 |
| 100 | 0 | 0 | 0 | 0.44 | 9.68 | 1423 | 8.26 | 1666 |
| 110 | 0 | 0 | 0 | 0.44 | 10.1 | 1363 | 8.68 | 1586 |
| 120 | 0 | 0 | 0 | 0.44 | 10.52 | 1310 | 9.09 | 1514 |
| 130 | 0 | 0 | 0 | 0.44 | 10.89 | 1264 | 9.5 | 1449 |
| 167 | 0 | 0 | 0 | 0.44 | 11.7 | 1177 | 10.97 | 1256 |
| 212 | 0 | 0 | 0 | 0.44 | 12.67 | 1088 | 12.58 | 1096 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-4 | 1-5 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-10 | 2-0 |
| 200.00 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 | 2-2 | 2-4 | 2-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.155

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 |
| 250.00 | 1-0 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-8 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-10 | 2-1 | 2-2 |
| 225.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 | 2-8 | 2-9 |
| 250.00 | 1-2 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 2-11 | 3-3 | 3-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.156

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 200.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 |
| 250.00 | 1-1 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 |
| 275.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 |
| 300.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 |
| 325.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 |
| 350.00 | 2-1 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 | 4-6 |
| 375.00 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-11 | 4-3 | 4-8 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 |
| 225.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 250.00 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-0 |
| 275.00 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-8 |
| 300.00 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 | 4-4 |
| 325.00 | 2-1 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-5 | 4-9 | 5-1 |
| 350.00 | 2-5 | 2-9 | 3-0 | 3-5 | 3-9 | 4-3 | 4-8 | 5-1 | 5-6 | 5-11 |
| 375.00 | 2-10 | 3-1 | 3-6 | 3-11 | 4-4 | 4-10 | 5-4 | 5-10 | 6-4 | 6-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 275.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 300.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 |
| 325.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 |
| 350.00 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 |
| 375.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 5-0 |
| 400.00 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 | 4-11 | 5-4 | 5-8 |
| 425.00 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 6-0 | 6-5 |
| 450.00 | 3-9 | 4-0 | 4-4 | 4-8 | 5-0 | 5-5 | 5-10 | 6-3 | 6-9 | 7-2 |
| 475.00 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 |
| 500.00 | 4-7 | 4-11 | 5-4 | 5-9 | 6-2 | 6-8 | 7-2 | 7-9 | 8-3 | 8-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 225.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 250.00 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 275.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 300.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 |
| 325.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 |
| 350.00 | 2-8 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 |
| 375.00 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 |
| 400.00 | 3-6 | 3-10 | 4-3 | 4-7 | 5-0 | 5-5 | 5-10 | 6-2 | 6-7 | 7-0 |
| 425.00 | 4-0 | 4-4 | 4-9 | 5-3 | 5-8 | 6-1 | 6-7 | 7-0 | 7-5 | 7-10 |
| 450.00 | 4-6 | 4-11 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-10 | 8-4 | 8-10 |
| 475.00 | 5-0 | 5-6 | 6-0 | 6-6 | 7-1 | 7-7 | 8-2 | 8-9 | 9-3 | 9-10 |
| 500.00 | 5-6 | 6-1 | 6-7 | 7-3 | 7-10 | 8-5 | 9-1 | 9-8 | 10-3 | 10-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 275.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 |
| 300.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 |
| 325.00 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 350.00 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 |
| 375.00 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 |
| 400.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-7 |
| 425.00 | 3-9 | 3-11 | 4-3 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 6-0 | 6-3 |
| 450.00 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 |
| 475.00 | 4-8 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 | 6-8 | 7-1 | 7-5 | 7-10 |
| 500.00 | 5-2 | 5-6 | 5-10 | 6-3 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 |
| 525.00 | 5-8 | 6-0 | 6-5 | 6-10 | 7-3 | 7-9 | 8-2 | 8-8 | 9-1 | 9-7 |
| 550.00 | 6-3 | 6-7 | 7-1 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-6 |
| 575.00 | 6-9 | 7-3 | 7-9 | 8-3 | 8-9 | 9-3 | 9-10 | 10-4 | 10-11 | 11-6 |
| 600.00 | 7-5 | 7-11 | 8-5 | 8-11 | 9-6 | 10-1 | 10-8 | 11-4 | 11-11 | 12-6 |
| 625.00 | 8-0 | 8-7 | 9-1 | 9-9 | 10-4 | 10-11 | 11-7 | 12-3 | 12-11 | 13-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 |
| 275.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 |
| 300.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 325.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 |
| 350.00 | 3-0 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 4-11 |
| 375.00 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 |
| 400.00 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-6 |
| 425.00 | 4-5 | 4-9 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 |
| 450.00 | 4-11 | 5-3 | 5-8 | 6-0 | 6-5 | 6-9 | 7-2 | 7-6 | 7-10 | 8-2 |
| 475.00 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-6 | 7-11 | 8-4 | 8-9 | 9-1 |
| 500.00 | 6-1 | 6-6 | 7-0 | 7-5 | 7-11 | 8-4 | 8-10 | 9-3 | 9-8 | 10-1 |
| 525.00 | 6-8 | 7-2 | 7-8 | 8-2 | 8-8 | 9-3 | 9-8 | 10-2 | 10-8 | 11-2 |
| 550.00 | 7-4 | 7-11 | 8-5 | 9-0 | 9-7 | 10-1 | 10-8 | 11-2 | 11-9 | 12-3 |
| 575.00 | 8-0 | 8-7 | 9-3 | 9-10 | 10-5 | 11-1 | 11-8 | 12-3 | 12-10 | 13-4 |
| 600.00 | 8-9 | 9-5 | 10-1 | 10-9 | 11-4 | 12-0 | 12-8 | 13-4 | 13-11 | 14-7 |
| 625.00 | 9-6 | 10-2 | 10-11 | 11-7 | 12-4 | 13-1 | 13-9 | 14-5 | 15-2 | 15-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 0.99 | 991 | 0.98 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.52 | 1063 | 0.52 | 1063 |
| 30 | 0 | 0 | 0 | 0.44 | 0.95 | 576 | 0.91 | 604 |
| 40 | 0 | 0 | 0 | 0.44 | 1.11 | 497 | 1.06 | 521 |
| 50 | 0 | 0 | 0 | 0.44 | 1.25 | 440 | 1.19 | 461 |
| 60 | 0 | 0 | 0 | 0.44 | 1.39 | 397 | 1.33 | 415 |
| 70 | 0 | 0 | 0 | 0.44 | 1.51 | 364 | 1.45 | 379 |
| 80 | 0 | 0 | 0 | 0.44 | 1.63 | 338 | 1.57 | 351 |
| 90 | 0 | 0 | 0 | 0.44 | 1.7 | 325 | 1.68 | 327 |
| 100 | 0 | 0 | 0 | 0.44 | 1.77 | 312 | 1.77 | 312 |
| 110 | 0 | 0 | 0 | 0.44 | 1.83 | 300 | 1.83 | 300 |
| 120 | 0 | 0 | 0 | 0.44 | 1.9 | 290 | 1.9 | 290 |
| 130 | 0 | 0 | 0 | 0.44 | 1.96 | 281 | 1.96 | 281 |
| 167 | 0 | 0 | 0 | 0.44 | 2.18 | 253 | 2.18 | 253 |
| 212 | 0 | 0 | 0 | 0.44 | 2.43 | 227 | 2.43 | 227 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 3.97 | 988 | 3.92 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 3.32 | 663 | 3.25 | 677 |
| 30 | 0 | 0 | 0 | 0.44 | 3.93 | 561 | 3.84 | 574 |
| 40 | 0 | 0 | 0 | 0.44 | 4.11 | 536 | 4.02 | 548 |
| 50 | 0 | 0 | 0 | 0.44 | 4.29 | 513 | 4.19 | 525 |
| 60 | 0 | 0 | 0 | 0.44 | 4.47 | 493 | 4.37 | 505 |
| 70 | 0 | 0 | 0 | 0.44 | 4.64 | 475 | 4.53 | 487 |
| 80 | 0 | 0 | 0 | 0.44 | 4.8 | 459 | 4.69 | 470 |
| 90 | 0 | 0 | 0 | 0.44 | 4.95 | 445 | 4.85 | 455 |
| 100 | 0 | 0 | 0 | 0.44 | 5.05 | 437 | 5 | 441 |
| 110 | 0 | 0 | 0 | 0.44 | 5.15 | 428 | 5.15 | 428 |
| 120 | 0 | 0 | 0 | 0.44 | 5.25 | 420 | 5.25 | 420 |
| 130 | 0 | 0 | 0 | 0.44 | 5.34 | 413 | 5.34 | 413 |
| 167 | 0 | 0 | 0 | 0.44 | 5.68 | 389 | 5.68 | 389 |
| 212 | 0 | 0 | 0 | 0.44 | 6.07 | 364 | 6.07 | 364 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.160

TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 8.91 | 993 | 8.84 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 8.25 | 602 | 8.16 | 609 |
| 30 | 0 | 0 | 0 | 0.44 | 8.86 | 561 | 8.75 | 568 |
| 40 | 0 | 0 | 0 | 0.44 | 9.06 | 548 | 8.94 | 555 |
| 50 | 0 | 0 | 0 | 0.44 | 9.25 | 537 | 9.13 | 544 |
| 60 | 0 | 0 | 0 | 0.44 | 9.44 | 526 | 9.32 | 533 |
| 70 | 0 | 0 | 0 | 0.44 | 9.63 | 516 | 9.5 | 523 |
| 80 | 0 | 0 | 0 | 0.44 | 9.81 | 507 | 9.68 | 514 |
| 90 | 0 | 0 | 0 | 0.44 | 9.99 | 498 | 9.85 | 505 |
| 100 | 0 | 0 | 0 | 0.44 | 10.13 | 491 | 10.03 | 496 |
| 110 | 0 | 0 | 0 | 0.44 | 10.24 | 486 | 10.2 | 488 |
| 120 | 0 | 0 | 0 | 0.44 | 10.35 | 480 | 10.35 | 480 |
| 130 | 0 | 0 | 0 | 0.44 | 10.47 | 475 | 10.47 | 475 |
| 167 | 0 | 0 | 0 | 0.44 | 10.87 | 458 | 10.87 | 458 |
| 212 | 0 | 0 | 0 | 0.44 | 11.34 | 439 | 11.34 | 439 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 15.83 | 996 | 15.76 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 15.17 | 583 | 15.07 | 587 |
| 30 | 0 | 0 | 0 | 0.44 | 15.79 | 561 | 15.67 | 565 |
| 40 | 0 | 0 | 0 | 0.44 | 15.99 | 554 | 15.87 | 558 |
| 50 | 0 | 0 | 0 | 0.44 | 16.19 | 547 | 16.06 | 552 |
| 60 | 0 | 0 | 0 | 0.44 | 16.38 | 541 | 16.25 | 545 |
| 70 | 0 | 0 | 0 | 0.44 | 16.58 | 535 | 16.44 | 539 |
| 80 | 0 | 0 | 0 | 0.44 | 16.77 | 529 | 16.62 | 533 |
| 90 | 0 | 0 | 0 | 0.44 | 16.96 | 523 | 16.81 | 527 |
| 100 | 0 | 0 | 0 | 0.44 | 17.12 | 518 | 16.99 | 522 |
| 110 | 0 | 0 | 0 | 0.44 | 17.24 | 514 | 17.18 | 516 |
| 120 | 0 | 0 | 0 | 0.44 | 17.36 | 511 | 17.36 | 511 |
| 130 | 0 | 0 | 0 | 0.44 | 17.49 | 507 | 17.49 | 507 |
| 167 | 0 | 0 | 0 | 0.44 | 17.93 | 495 | 17.93 | 495 |
| 212 | 0 | 0 | 0 | 0.44 | 18.45 | 481 | 18.45 | 481 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 24.79 | 997 | 24.72 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 24.13 | 575 | 24.03 | 578 |
| 30 | 0 | 0 | 0 | 0.44 | 24.75 | 561 | 24.62 | 564 |
| 40 | 0 | 0 | 0 | 0.44 | 24.95 | 557 | 24.82 | 559 |
| 50 | 0 | 0 | 0 | 0.44 | 25.15 | 552 | 25.02 | 555 |
| 60 | 0 | 0 | 0 | 0.44 | 25.35 | 548 | 25.21 | 551 |
| 70 | 0 | 0 | 0 | 0.44 | 25.54 | 544 | 25.4 | 547 |
| 80 | 0 | 0 | 0 | 0.44 | 25.74 | 540 | 25.59 | 543 |
| 90 | 0 | 0 | 0 | 0.44 | 25.94 | 536 | 25.78 | 539 |
| 100 | 0 | 0 | 0 | 0.44 | 26.12 | 532 | 25.97 | 535 |
| 110 | 0 | 0 | 0 | 0.44 | 26.24 | 530 | 26.16 | 531 |
| 120 | 0 | 0 | 0 | 0.44 | 26.37 | 527 | 26.35 | 528 |
| 130 | 0 | 0 | 0 | 0.44 | 26.5 | 525 | 26.5 | 525 |
| 167 | 0 | 0 | 0 | 0.44 | 26.96 | 516 | 26.96 | 516 |
| 212 | 0 | 0 | 0 | 0.44 | 27.51 | 506 | 27.51 | 506 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 | 2-8 | 2-9 | 2-10 |
| 150.00 | 1-9 | 2-1 | 2-5 | 2-8 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-2 |
| 175.00 | 2-4 | 2-9 | 3-3 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-5 | 5-7 |
| 200.00 | 3-1 | 3-8 | 4-3 | 4-9 | 5-4 | 5-10 | 6-3 | 6-9 | 7-1 | 7-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-8 | 2-9 | 2-10 |
| 150.00 | 1-10 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 |
| 175.00 | 2-5 | 2-11 | 3-5 | 3-10 | 4-3 | 4-8 | 5-0 | 5-2 | 5-5 | 5-7 |
| 200.00 | 3-2 | 3-10 | 4-5 | 5-0 | 5-7 | 6-1 | 6-6 | 6-10 | 7-1 | 7-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 |
| 125.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 175.00 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 |
| 200.00 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 |
| 225.00 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 |
| 250.00 | 5-8 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 |
| 125.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 |
| 150.00 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 175.00 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-10 | 3-11 |
| 200.00 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 |
| 225.00 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-6 |
| 250.00 | 5-10 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 |
| 175.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 |
| 200.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 |
| 225.00 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 |
| 250.00 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 |
| 275.00 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 |
| 300.00 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 |
| 325.00 | 10-1 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 | 11-4 | 11-7 | 11-9 | 12-0 |
| 350.00 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-11 |
| 375.00 | 13-5 | 13-8 | 14-0 | 14-3 | 14-7 | 14-10 | 15-2 | 15-5 | 15-8 | 15-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 |
| 175.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 |
| 200.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 225.00 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 |
| 250.00 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-1 |
| 275.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-7 |
| 300.00 | 8-8 | 8-10 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 | 10-2 | 10-3 |
| 325.00 | 10-2 | 10-5 | 10-8 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-0 |
| 350.00 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-9 | 13-11 |
| 375.00 | 13-7 | 13-10 | 14-2 | 14-6 | 14-9 | 15-1 | 15-4 | 15-7 | 15-10 | 16-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 225.00 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 250.00 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 |
| 275.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 |
| 300.00 | 8-8 | 8-10 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 |
| 325.00 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 |
| 350.00 | 11-10 | 12-0 | 12-2 | 12-3 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-2 |
| 375.00 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 |
| 400.00 | 15-6 | 15-8 | 15-10 | 16-1 | 16-3 | 16-5 | 16-7 | 16-10 | 17-0 | 17-2 |
| 425.00 | 17-6 | 17-8 | 17-11 | 18-2 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 | 19-5 |
| 450.00 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-3 | 21-6 | 21-9 |
| 475.00 | 21-10 | 22-1 | 22-5 | 22-8 | 22-11 | 23-2 | 23-6 | 23-9 | 24-0 | 24-3 |
| 500.00 | 24-2 | 24-6 | 24-10 | 25-1 | 25-5 | 25-9 | 26-0 | 26-4 | 26-7 | 26-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 |
| 225.00 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 |
| 250.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 |
| 275.00 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 |
| 300.00 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 |
| 325.00 | 10-3 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-4 |
| 350.00 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 | 13-2 |
| 375.00 | 13-8 | 13-10 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-2 |
| 400.00 | 15-7 | 15-9 | 16-0 | 16-2 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 |
| 425.00 | 17-7 | 17-10 | 18-1 | 18-3 | 18-6 | 18-9 | 18-11 | 19-2 | 19-4 | 19-6 |
| 450.00 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 | 21-8 | 21-10 |
| 475.00 | 22-0 | 22-3 | 22-7 | 22-10 | 23-1 | 23-5 | 23-8 | 23-11 | 24-2 | 24-4 |
| 500.00 | 24-5 | 24-8 | 25-0 | 25-4 | 25-8 | 25-11 | 26-3 | 26-6 | 26-9 | 27-0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.166

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 |
| 275.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 |
| 300.00 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 |
| 325.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 11-0 |
| 350.00 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-10 |
| 375.00 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 |
| 400.00 | 15-7 | 15-9 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 |
| 425.00 | 17-8 | 17-9 | 17-11 | 18-1 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-11 |
| 450.00 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-10 | 21-0 | 21-2 |
| 475.00 | 22-0 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 |
| 500.00 | 24-5 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-7 | 25-9 | 26-0 | 26-2 |
| 525.00 | 26-11 | 27-2 | 27-4 | 27-7 | 27-10 | 28-0 | 28-3 | 28-5 | 28-8 | 28-10 |
| 550.00 | 29-7 | 29-10 | 30-1 | 30-3 | 30-6 | 30-9 | 31-0 | 31-3 | 31-5 | 31-8 |
| 575.00 | 32-4 | 32-7 | 32-10 | 33-1 | 33-5 | 33-8 | 33-11 | 34-2 | 34-5 | 34-8 |
| 600.00 | 35-3 | 35-6 | 35-10 | 36-1 | 36-4 | 36-8 | 36-11 | 37-2 | 37-6 | 37-9 |
| 625.00 | 38-3 | 38-7 | 38-10 | 39-2 | 39-6 | 39-9 | 40-1 | 40-4 | 40-8 | 41-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 |
| 275.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 |
| 300.00 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-5 |
| 325.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 |
| 350.00 | 12-0 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 |
| 375.00 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 |
| 400.00 | 15-8 | 15-10 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 |
| 425.00 | 17-9 | 17-10 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-9 | 18-10 | 18-11 |
| 450.00 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-3 |
| 475.00 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 23-1 | 23-3 | 23-5 | 23-7 | 23-8 |
| 500.00 | 24-7 | 24-9 | 24-11 | 25-2 | 25-4 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 |
| 525.00 | 27-1 | 27-3 | 27-6 | 27-9 | 27-11 | 28-2 | 28-5 | 28-7 | 28-10 | 28-11 |
| 550.00 | 29-9 | 30-0 | 30-2 | 30-5 | 30-8 | 30-11 | 31-2 | 31-5 | 31-8 | 31-9 |
| 575.00 | 32-6 | 32-9 | 33-0 | 33-4 | 33-7 | 33-10 | 34-1 | 34-4 | 34-7 | 34-9 |
| 600.00 | 35-5 | 35-8 | 36-0 | 36-3 | 36-7 | 36-10 | 37-1 | 37-5 | 37-8 | 37-10 |
| 625.00 | 38-5 | 38-9 | 39-1 | 39-4 | 39-8 | 40-0 | 40-4 | 40-7 | 40-11 | 41-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 0.66 | 1473 | 0.65 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 0.3 | 1818 | 0.3 | 1818 |
| 30 | 0 | 0 | 0 | 0.44 | 0.55 | 996 | 0.51 | 1085 |
| 40 | 0 | 0 | 0 | 0.44 | 0.69 | 794 | 0.62 | 887 |
| 50 | 0 | 0 | 0 | 0.44 | 0.85 | 649 | 0.75 | 729 |
| 60 | 0 | 0 | 0 | 0.44 | 1 | 548 | 0.9 | 612 |
| 70 | 0 | 0 | 0 | 0.44 | 1.15 | 477 | 1.04 | 527 |
| 80 | 0 | 0 | 0 | 0.44 | 1.29 | 425 | 1.19 | 464 |
| 90 | 0 | 0 | 0 | 0.44 | 1.38 | 399 | 1.32 | 418 |
| 100 | 0 | 0 | 0 | 0.44 | 1.45 | 379 | 1.44 | 381 |
| 110 | 0 | 0 | 0 | 0.44 | 1.53 | 360 | 1.53 | 360 |
| 120 | 0 | 0 | 0 | 0.44 | 1.6 | 344 | 1.6 | 344 |
| 130 | 0 | 0 | 0 | 0.44 | 1.67 | 330 | 1.67 | 330 |
| 167 | 0 | 0 | 0 | 0.44 | 1.91 | 288 | 1.91 | 288 |
| 212 | 0 | 0 | 0 | 0.44 | 2.18 | 252 | 2.18 | 252 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 2.7 | 1454 | 2.61 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 1.76 | 1248 | 1.66 | 1322 |
| 30 | 0 | 0 | 0 | 0.44 | 2.51 | 879 | 2.33 | 946 |
| 40 | 0 | 0 | 0 | 0.44 | 2.75 | 802 | 2.56 | 861 |
| 50 | 0 | 0 | 0 | 0.44 | 2.98 | 739 | 2.78 | 792 |
| 60 | 0 | 0 | 0 | 0.44 | 3.2 | 688 | 3 | 734 |
| 70 | 0 | 0 | 0 | 0.44 | 3.42 | 645 | 3.21 | 686 |
| 80 | 0 | 0 | 0 | 0.44 | 3.62 | 608 | 3.42 | 645 |
| 90 | 0 | 0 | 0 | 0.44 | 3.82 | 577 | 3.61 | 610 |
| 100 | 0 | 0 | 0 | 0.44 | 3.97 | 555 | 3.8 | 579 |
| 110 | 0 | 0 | 0 | 0.44 | 4.08 | 540 | 3.99 | 553 |
| 120 | 0 | 0 | 0 | 0.44 | 4.19 | 526 | 4.17 | 529 |
| 130 | 0 | 0 | 0 | 0.44 | 4.3 | 513 | 4.3 | 513 |
| 167 | 0 | 0 | 0 | 0.44 | 4.69 | 470 | 4.69 | 470 |
| 212 | 0 | 0 | 0 | 0.44 | 5.13 | 430 | 5.13 | 430 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 6.02 | 1467 | 5.88 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 4.93 | 1006 | 4.71 | 1051 |
| 30 | 0 | 0 | 0 | 0.44 | 5.8 | 855 | 5.55 | 893 |
| 40 | 0 | 0 | 0 | 0.44 | 6.07 | 817 | 5.82 | 852 |
| 50 | 0 | 0 | 0 | 0.44 | 6.34 | 783 | 6.08 | 816 |
| 60 | 0 | 0 | 0 | 0.44 | 6.59 | 752 | 6.33 | 783 |
| 70 | 0 | 0 | 0 | 0.44 | 6.84 | 725 | 6.58 | 754 |
| 80 | 0 | 0 | 0 | 0.44 | 7.09 | 700 | 6.82 | 728 |
| 90 | 0 | 0 | 0 | 0.44 | 7.32 | 678 | 7.05 | 704 |
| 100 | 0 | 0 | 0 | 0.44 | 7.55 | 657 | 7.28 | 682 |
| 110 | 0 | 0 | 0 | 0.44 | 7.72 | 643 | 7.5 | 661 |
| 120 | 0 | 0 | 0 | 0.44 | 7.85 | 632 | 7.72 | 643 |
| 130 | 0 | 0 | 0 | 0.44 | 7.99 | 621 | 7.94 | 626 |
| 167 | 0 | 0 | 0 | 0.44 | 8.48 | 586 | 8.48 | 586 |
| 212 | 0 | 0 | 0 | 0.44 | 9.05 | 549 | 9.05 | 549 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 10.64 | 1477 | 10.47 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 9.5 | 928 | 9.25 | 954 |
| 30 | 0 | 0 | 0 | 0.44 | 10.4 | 848 | 10.12 | 872 |
| 40 | 0 | 0 | 0 | 0.44 | 10.69 | 826 | 10.4 | 848 |
| 50 | 0 | 0 | 0 | 0.44 | 10.97 | 805 | 10.68 | 827 |
| 60 | 0 | 0 | 0 | 0.44 | 11.25 | 785 | 10.95 | 806 |
| 70 | 0 | 0 | 0 | 0.44 | 11.52 | 767 | 11.21 | 787 |
| 80 | 0 | 0 | 0 | 0.44 | 11.78 | 750 | 11.47 | 770 |
| 90 | 0 | 0 | 0 | 0.44 | 12.04 | 734 | 11.73 | 753 |
| 100 | 0 | 0 | 0 | 0.44 | 12.29 | 718 | 11.98 | 737 |
| 110 | 0 | 0 | 0 | 0.44 | 12.54 | 705 | 12.23 | 722 |
| 120 | 0 | 0 | 0 | 0.44 | 12.69 | 696 | 12.47 | 708 |
| 130 | 0 | 0 | 0 | 0.44 | 12.84 | 688 | 12.71 | 695 |
| 167 | 0 | 0 | 0 | 0.44 | 13.4 | 659 | 13.4 | 659 |
| 212 | 0 | 0 | 0 | 0.44 | 14.06 | 629 | 14.06 | 629 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 16.57 | 1484 | 16.39 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 15.42 | 895 | 15.14 | 911 |
| 30 | 0 | 0 | 0 | 0.44 | 16.33 | 846 | 16.03 | 861 |
| 40 | 0 | 0 | 0 | 0.44 | 16.62 | 831 | 16.32 | 846 |
| 50 | 0 | 0 | 0 | 0.44 | 16.91 | 817 | 16.6 | 832 |
| 60 | 0 | 0 | 0 | 0.44 | 17.2 | 803 | 16.88 | 818 |
| 70 | 0 | 0 | 0 | 0.44 | 17.48 | 790 | 17.15 | 805 |
| 80 | 0 | 0 | 0 | 0.44 | 17.76 | 778 | 17.43 | 793 |
| 90 | 0 | 0 | 0 | 0.44 | 18.03 | 767 | 17.69 | 781 |
| 100 | 0 | 0 | 0 | 0.44 | 18.3 | 755 | 17.96 | 770 |
| 110 | 0 | 0 | 0 | 0.44 | 18.57 | 745 | 18.22 | 759 |
| 120 | 0 | 0 | 0 | 0.44 | 18.77 | 737 | 18.48 | 748 |
| 130 | 0 | 0 | 0 | 0.44 | 18.93 | 730 | 18.74 | 738 |
| 167 | 0 | 0 | 0 | 0.44 | 19.54 | 708 | 19.54 | 708 |
| 212 | 0 | 0 | 0 | 0.44 | 20.26 | 683 | 20.26 | 683 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 |
| 150.00 | 0-11 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 | 2-8 | 3-0 | 3-3 | 3-5 |
| 175.00 | 1-3 | 1-7 | 1-11 | 2-4 | 2-9 | 3-2 | 3-8 | 4-0 | 4-5 | 4-8 |
| 200.00 | 1-8 | 2-0 | 2-6 | 3-0 | 3-7 | 4-2 | 4-9 | 5-3 | 5-9 | 6-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 |
| 150.00 | 1-0 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-1 | 3-3 | 3-5 |
| 175.00 | 1-4 | 1-8 | 2-1 | 2-7 | 3-1 | 3-6 | 4-0 | 4-3 | 4-5 | 4-8 |
| 200.00 | 1-9 | 2-3 | 2-9 | 3-5 | 4-0 | 4-7 | 5-2 | 5-6 | 5-10 | 6-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 |
| 175.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 200.00 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 |
| 225.00 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 |
| 250.00 | 3-3 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 150.00 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 |
| 175.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-1 |
| 200.00 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-1 |
| 225.00 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 | 5-2 |
| 250.00 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-2 | 6-4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.172

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 |
| 175.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 200.00 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 |
| 225.00 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 |
| 250.00 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 |
| 275.00 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-1 | 6-4 |
| 300.00 | 5-3 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-3 | 7-6 |
| 325.00 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 | 8-0 | 8-3 | 8-7 | 8-10 |
| 350.00 | 7-2 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 | 9-11 | 10-3 |
| 375.00 | 8-3 | 8-8 | 9-1 | 9-6 | 9-11 | 10-3 | 10-8 | 11-0 | 11-5 | 11-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 |
| 200.00 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 |
| 225.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 |
| 250.00 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 |
| 275.00 | 4-8 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 |
| 300.00 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 |
| 325.00 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 | 9-1 |
| 350.00 | 7-6 | 7-11 | 8-3 | 8-8 | 9-0 | 9-4 | 9-8 | 10-0 | 10-3 | 10-6 |
| 375.00 | 8-7 | 9-1 | 9-6 | 9-11 | 10-4 | 10-8 | 11-1 | 11-5 | 11-10 | 12-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 |
| 225.00 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 |
| 250.00 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 275.00 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 |
| 300.00 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 |
| 325.00 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 |
| 350.00 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-7 | 8-9 | 9-0 | 9-2 | 9-4 |
| 375.00 | 8-8 | 8-11 | 9-2 | 9-5 | 9-7 | 9-10 | 10-1 | 10-4 | 10-6 | 10-9 |
| 400.00 | 9-10 | 10-1 | 10-5 | 10-8 | 10-11 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 |
| 425.00 | 11-1 | 11-5 | 11-9 | 12-1 | 12-4 | 12-8 | 12-11 | 13-3 | 13-6 | 13-10 |
| 450.00 | 12-5 | 12-10 | 13-2 | 13-6 | 13-10 | 14-2 | 14-6 | 14-10 | 15-2 | 15-6 |
| 475.00 | 13-10 | 14-3 | 14-8 | 15-1 | 15-5 | 15-10 | 16-2 | 16-7 | 16-11 | 17-3 |
| 500.00 | 15-5 | 15-10 | 16-3 | 16-8 | 17-1 | 17-6 | 17-11 | 18-4 | 18-9 | 19-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 |
| 225.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 250.00 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 |
| 275.00 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 |
| 300.00 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 | 7-1 |
| 325.00 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 |
| 350.00 | 7-9 | 8-0 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 |
| 375.00 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-1 | 10-4 | 10-7 | 10-10 | 11-0 |
| 400.00 | 10-1 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-4 | 12-6 |
| 425.00 | 11-5 | 11-9 | 12-1 | 12-5 | 12-8 | 13-0 | 13-4 | 13-7 | 13-11 | 14-2 |
| 450.00 | 12-10 | 13-2 | 13-6 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-10 |
| 475.00 | 14-3 | 14-8 | 15-1 | 15-6 | 15-10 | 16-3 | 16-7 | 17-0 | 17-4 | 17-8 |
| 500.00 | 15-10 | 16-3 | 16-9 | 17-2 | 17-7 | 18-0 | 18-5 | 18-10 | 19-3 | 19-7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 275.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 300.00 | 5-8 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 |
| 325.00 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 |
| 350.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 |
| 375.00 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 |
| 400.00 | 10-1 | 10-3 | 10-5 | 10-7 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 |
| 425.00 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 | 12-5 | 12-7 | 12-9 | 13-0 | 13-2 |
| 450.00 | 12-9 | 13-0 | 13-3 | 13-5 | 13-8 | 13-11 | 14-1 | 14-4 | 14-7 | 14-9 |
| 475.00 | 14-2 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-2 | 16-5 |
| 500.00 | 15-9 | 16-0 | 16-4 | 16-7 | 16-11 | 17-2 | 17-5 | 17-8 | 18-0 | 18-3 |
| 525.00 | 17-4 | 17-8 | 18-0 | 18-4 | 18-7 | 18-11 | 19-3 | 19-6 | 19-10 | 20-1 |
| 550.00 | 19-1 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-1 |
| 575.00 | 20-10 | 21-2 | 21-7 | 22-0 | 22-4 | 22-8 | 23-1 | 23-5 | 23-9 | 24-1 |
| 600.00 | 22-8 | 23-1 | 23-6 | 23-11 | 24-4 | 24-9 | 25-1 | 25-6 | 25-11 | 26-3 |
| 625.00 | 24-7 | 25-1 | 25-6 | 25-11 | 26-5 | 26-10 | 27-3 | 27-8 | 28-1 | 28-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 275.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 300.00 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 |
| 325.00 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 |
| 350.00 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-1 |
| 375.00 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 |
| 400.00 | 10-3 | 10-5 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-11 |
| 425.00 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-10 | 13-0 | 13-3 | 13-5 |
| 450.00 | 13-0 | 13-3 | 13-6 | 13-8 | 13-11 | 14-2 | 14-5 | 14-7 | 14-10 | 15-0 |
| 475.00 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-9 |
| 500.00 | 16-0 | 16-4 | 16-7 | 16-11 | 17-2 | 17-6 | 17-9 | 18-0 | 18-4 | 18-7 |
| 525.00 | 17-8 | 18-0 | 18-4 | 18-8 | 19-0 | 19-3 | 19-7 | 19-11 | 20-2 | 20-6 |
| 550.00 | 19-5 | 19-9 | 20-1 | 20-6 | 20-10 | 21-2 | 21-6 | 21-10 | 22-2 | 22-6 |
| 575.00 | 21-3 | 21-7 | 22-0 | 22-5 | 22-9 | 23-2 | 23-6 | 23-10 | 24-3 | 24-7 |
| 600.00 | 23-1 | 23-6 | 23-11 | 24-4 | 24-9 | 25-2 | 25-7 | 26-0 | 26-4 | 26-9 |
| 625.00 | 25-1 | 25-6 | 26-0 | 26-5 | 26-11 | 27-4 | 27-9 | 28-2 | 28-7 | 29-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 0.51 | 1932 | 0.49 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.23 | 2410 | 0.23 | 2410 |
| 30 | 0 | 0 | 0 | 0.44 | 0.37 | 1472 | 0.34 | 1629 |
| 40 | 0 | 0 | 0 | 0.44 | 0.46 | 1183 | 0.4 | 1376 |
| 50 | 0 | 0 | 0 | 0.44 | 0.59 | 939 | 0.48 | 1140 |
| 60 | 0 | 0 | 0 | 0.44 | 0.73 | 752 | 0.59 | 931 |
| 70 | 0 | 0 | 0 | 0.44 | 0.89 | 620 | 0.72 | 763 |
| 80 | 0 | 0 | 0 | 0.44 | 1.04 | 528 | 0.87 | 636 |
| 90 | 0 | 0 | 0 | 0.44 | 1.14 | 484 | 1.01 | 544 |
| 100 | 0 | 0 | 0 | 0.44 | 1.21 | 454 | 1.15 | 477 |
| 110 | 0 | 0 | 0 | 0.44 | 1.29 | 427 | 1.29 | 427 |
| 120 | 0 | 0 | 0 | 0.44 | 1.36 | 403 | 1.36 | 403 |
| 130 | 0 | 0 | 0 | 0.44 | 1.44 | 383 | 1.44 | 383 |
| 167 | 0 | 0 | 0 | 0.44 | 1.7 | 324 | 1.7 | 324 |
| 212 | 0 | 0 | 0 | 0.44 | 1.99 | 277 | 1.99 | 277 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 2.06 | 1901 | 1.96 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 1.13 | 1954 | 1.06 | 2066 |
| 30 | 0 | 0 | 0 | 0.44 | 1.73 | 1269 | 1.53 | 1443 |
| 40 | 0 | 0 | 0 | 0.44 | 1.98 | 1113 | 1.73 | 1275 |
| 50 | 0 | 0 | 0 | 0.44 | 2.23 | 988 | 1.94 | 1133 |
| 60 | 0 | 0 | 0 | 0.44 | 2.48 | 889 | 2.17 | 1014 |
| 70 | 0 | 0 | 0 | 0.44 | 2.72 | 810 | 2.4 | 917 |
| 80 | 0 | 0 | 0 | 0.44 | 2.95 | 746 | 2.63 | 837 |
| 90 | 0 | 0 | 0 | 0.44 | 3.18 | 694 | 2.85 | 772 |
| 100 | 0 | 0 | 0 | 0.44 | 3.36 | 656 | 3.07 | 717 |
| 110 | 0 | 0 | 0 | 0.44 | 3.47 | 634 | 3.28 | 671 |
| 120 | 0 | 0 | 0 | 0.44 | 3.59 | 613 | 3.48 | 632 |
| 130 | 0 | 0 | 0 | 0.44 | 3.71 | 594 | 3.68 | 599 |
| 167 | 0 | 0 | 0 | 0.44 | 4.12 | 534 | 4.12 | 534 |
| 212 | 0 | 0 | 0 | 0.44 | 4.6 | 479 | 4.6 | 479 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 4.61 | 1915 | 4.41 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 3.2 | 1548 | 2.93 | 1687 |
| 30 | 0 | 0 | 0 | 0.44 | 4.18 | 1186 | 3.79 | 1306 |
| 40 | 0 | 0 | 0 | 0.44 | 4.5 | 1102 | 4.09 | 1211 |
| 50 | 0 | 0 | 0 | 0.44 | 4.81 | 1031 | 4.39 | 1129 |
| 60 | 0 | 0 | 0 | 0.44 | 5.11 | 970 | 4.68 | 1058 |
| 70 | 0 | 0 | 0 | 0.44 | 5.41 | 917 | 4.97 | 997 |
| 80 | 0 | 0 | 0 | 0.44 | 5.69 | 871 | 5.25 | 943 |
| 90 | 0 | 0 | 0 | 0.44 | 5.97 | 831 | 5.53 | 896 |
| 100 | 0 | 0 | 0 | 0.44 | 6.23 | 795 | 5.8 | 855 |
| 110 | 0 | 0 | 0 | 0.44 | 6.46 | 768 | 6.06 | 818 |
| 120 | 0 | 0 | 0 | 0.44 | 6.61 | 750 | 6.31 | 785 |
| 130 | 0 | 0 | 0 | 0.44 | 6.76 | 734 | 6.56 | 756 |
| 167 | 0 | 0 | 0 | 0.44 | 7.29 | 680 | 7.29 | 681 |
| 212 | 0 | 0 | 0 | 0.44 | 7.92 | 627 | 7.91 | 627 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 8.11 | 1934 | 7.84 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 6.51 | 1353 | 6.08 | 1448 |
| 30 | 0 | 0 | 0 | 0.44 | 7.63 | 1156 | 7.14 | 1234 |
| 40 | 0 | 0 | 0 | 0.44 | 7.98 | 1104 | 7.48 | 1178 |
| 50 | 0 | 0 | 0 | 0.44 | 8.33 | 1059 | 7.82 | 1127 |
| 60 | 0 | 0 | 0 | 0.44 | 8.66 | 1018 | 8.15 | 1081 |
| 70 | 0 | 0 | 0 | 0.44 | 8.99 | 981 | 8.47 | 1040 |
| 80 | 0 | 0 | 0 | 0.44 | 9.31 | 947 | 8.79 | 1003 |
| 90 | 0 | 0 | 0 | 0.44 | 9.62 | 917 | 9.1 | 969 |
| 100 | 0 | 0 | 0 | 0.44 | 9.93 | 889 | 9.41 | 938 |
| 110 | 0 | 0 | 0 | 0.44 | 10.22 | 863 | 9.7 | 909 |
| 120 | 0 | 0 | 0 | 0.44 | 10.46 | 844 | 9.99 | 883 |
| 130 | 0 | 0 | 0 | 0.44 | 10.63 | 830 | 10.28 | 858 |
| 167 | 0 | 0 | 0 | 0.44 | 11.26 | 784 | 11.25 | 785 |
| 212 | 0 | 0 | 0 | 0.44 | 12 | 736 | 11.99 | 737 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 12.58 | 1950 | 12.27 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 10.9 | 1264 | 10.39 | 1325 |
| 30 | 0 | 0 | 0 | 0.44 | 12.07 | 1142 | 11.52 | 1196 |
| 40 | 0 | 0 | 0 | 0.44 | 12.44 | 1108 | 11.89 | 1160 |
| 50 | 0 | 0 | 0 | 0.44 | 12.8 | 1077 | 12.24 | 1126 |
| 60 | 0 | 0 | 0 | 0.44 | 13.16 | 1048 | 12.59 | 1095 |
| 70 | 0 | 0 | 0 | 0.44 | 13.51 | 1021 | 12.94 | 1066 |
| 80 | 0 | 0 | 0 | 0.44 | 13.85 | 996 | 13.28 | 1038 |
| 90 | 0 | 0 | 0 | 0.44 | 14.19 | 972 | 13.61 | 1013 |
| 100 | 0 | 0 | 0 | 0.44 | 14.52 | 950 | 13.94 | 990 |
| 110 | 0 | 0 | 0 | 0.44 | 14.85 | 929 | 14.26 | 967 |
| 120 | 0 | 0 | 0 | 0.44 | 15.16 | 910 | 14.58 | 946 |
| 130 | 0 | 0 | 0 | 0.44 | 15.37 | 898 | 14.89 | 927 |
| 167 | 0 | 0 | 0 | 0.44 | 16.07 | 859 | 16 | 863 |
| 212 | 0 | 0 | 0 | 0.44 | 16.9 | 817 | 16.89 | 818 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-4 | 1-7 | 1-10 | 2-0 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 |
| 175.00 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 | 2-3 | 2-8 | 3-1 | 3-6 | 3-11 |
| 200.00 | 1-2 | 1-4 | 1-7 | 1-11 | 2-4 | 2-11 | 3-6 | 4-1 | 4-7 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-4 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 | 1-3 |
| 125.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-9 | 1-11 | 2-0 |
| 150.00 | 0-8 | 0-10 | 1-1 | 1-4 | 1-8 | 2-0 | 2-4 | 2-7 | 2-9 | 2-11 |
| 175.00 | 0-11 | 1-2 | 1-5 | 1-10 | 2-3 | 2-9 | 3-2 | 3-6 | 3-9 | 3-11 |
| 200.00 | 1-3 | 1-6 | 1-10 | 2-4 | 2-11 | 3-7 | 4-2 | 4-7 | 4-10 | 5-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 200.00 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 |
| 225.00 | 1-8 | 1-11 | 2-2 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 |
| 250.00 | 2-1 | 2-5 | 2-8 | 3-0 | 3-5 | 3-9 | 4-1 | 4-6 | 4-10 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-10 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 |
| 150.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 1-11 |
| 175.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 |
| 200.00 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 |
| 225.00 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-5 |
| 250.00 | 2-4 | 2-9 | 3-1 | 3-6 | 3-10 | 4-3 | 4-7 | 5-0 | 5-3 | 5-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 |
| 175.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 |
| 200.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 |
| 225.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 |
| 250.00 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 |
| 275.00 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 |
| 300.00 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 | 5-6 | 5-10 | 6-1 |
| 325.00 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-1 |
| 350.00 | 4-9 | 5-2 | 5-7 | 6-0 | 6-4 | 6-9 | 7-2 | 7-6 | 7-11 | 8-3 |
| 375.00 | 5-6 | 5-11 | 6-5 | 6-10 | 7-4 | 7-9 | 8-3 | 8-8 | 9-1 | 9-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 |
| 225.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 250.00 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 |
| 275.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 |
| 300.00 | 3-10 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 |
| 325.00 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 |
| 350.00 | 5-3 | 5-8 | 6-1 | 6-7 | 6-11 | 7-4 | 7-9 | 8-1 | 8-6 | 8-10 |
| 375.00 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-5 | 8-11 | 9-4 | 9-9 | 10-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 225.00 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 |
| 250.00 | 2-8 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 |
| 275.00 | 3-3 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 |
| 300.00 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 |
| 325.00 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 | 6-2 | 6-5 |
| 350.00 | 5-2 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-2 | 7-5 |
| 375.00 | 6-0 | 6-3 | 6-7 | 6-10 | 7-2 | 7-5 | 7-9 | 8-0 | 8-3 | 8-6 |
| 400.00 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 | 8-6 | 8-9 | 9-1 | 9-5 | 9-8 |
| 425.00 | 7-8 | 8-1 | 8-5 | 8-10 | 9-2 | 9-7 | 9-11 | 10-3 | 10-7 | 10-11 |
| 450.00 | 8-7 | 9-0 | 9-6 | 9-11 | 10-4 | 10-9 | 11-2 | 11-6 | 11-11 | 12-3 |
| 475.00 | 9-7 | 10-1 | 10-7 | 11-0 | 11-6 | 11-11 | 12-5 | 12-10 | 13-3 | 13-8 |
| 500.00 | 10-7 | 11-2 | 11-8 | 12-3 | 12-9 | 13-3 | 13-9 | 14-3 | 14-8 | 15-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 225.00 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 |
| 250.00 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 |
| 275.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 |
| 300.00 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 |
| 325.00 | 4-10 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 |
| 350.00 | 5-7 | 5-10 | 6-1 | 6-4 | 6-8 | 6-11 | 7-2 | 7-4 | 7-7 | 7-10 |
| 375.00 | 6-5 | 6-8 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 | 8-5 | 8-9 | 9-0 |
| 400.00 | 7-3 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 | 9-7 | 9-11 | 10-3 |
| 425.00 | 8-2 | 8-7 | 9-0 | 9-5 | 9-9 | 10-2 | 10-6 | 10-10 | 11-2 | 11-7 |
| 450.00 | 9-2 | 9-8 | 10-1 | 10-6 | 11-0 | 11-5 | 11-9 | 12-2 | 12-7 | 12-11 |
| 475.00 | 10-3 | 10-9 | 11-3 | 11-9 | 12-3 | 12-8 | 13-2 | 13-7 | 14-0 | 14-5 |
| 500.00 | 11-4 | 11-11 | 12-6 | 13-0 | 13-6 | 14-1 | 14-7 | 15-0 | 15-6 | 16-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 275.00 | 3-4 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 |
| 300.00 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 |
| 325.00 | 4-9 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 |
| 350.00 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 |
| 375.00 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 | 8-0 |
| 400.00 | 7-2 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 |
| 425.00 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 |
| 450.00 | 9-0 | 9-4 | 9-8 | 9-11 | 10-2 | 10-6 | 10-9 | 11-0 | 11-3 | 11-7 |
| 475.00 | 10-1 | 10-5 | 10-9 | 11-1 | 11-4 | 11-8 | 12-0 | 12-3 | 12-7 | 12-10 |
| 500.00 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 |
| 525.00 | 12-4 | 12-8 | 13-1 | 13-6 | 13-11 | 14-3 | 14-8 | 15-0 | 15-4 | 15-9 |
| 550.00 | 13-6 | 13-11 | 14-5 | 14-10 | 15-3 | 15-8 | 16-1 | 16-6 | 16-10 | 17-3 |
| 575.00 | 14-9 | 15-3 | 15-9 | 16-2 | 16-8 | 17-1 | 17-7 | 18-0 | 18-5 | 18-10 |
| 600.00 | 16-1 | 16-7 | 17-1 | 17-8 | 18-2 | 18-8 | 19-2 | 19-7 | 20-1 | 20-7 |
| 625.00 | 17-5 | 18-0 | 18-7 | 19-2 | 19-8 | 20-3 | 20-9 | 21-3 | 21-10 | 22-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 |
| 275.00 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 |
| 300.00 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 |
| 325.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 |
| 350.00 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 |
| 375.00 | 6-7 | 6-9 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 | 8-0 | 8-2 | 8-4 |
| 400.00 | 7-6 | 7-9 | 7-11 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 | 9-6 |
| 425.00 | 8-5 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 |
| 450.00 | 9-6 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 | 11-9 | 12-0 |
| 475.00 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-2 | 12-6 | 12-10 | 13-1 | 13-5 |
| 500.00 | 11-8 | 12-1 | 12-5 | 12-10 | 13-2 | 13-6 | 13-10 | 14-2 | 14-6 | 14-10 |
| 525.00 | 12-11 | 13-4 | 13-9 | 14-1 | 14-6 | 14-11 | 15-3 | 15-8 | 16-0 | 16-4 |
| 550.00 | 14-2 | 14-7 | 15-1 | 15-6 | 15-11 | 16-4 | 16-9 | 17-2 | 17-7 | 18-0 |
| 575.00 | 15-5 | 16-0 | 16-5 | 16-11 | 17-5 | 17-10 | 18-4 | 18-9 | 19-3 | 19-8 |
| 600.00 | 16-10 | 17-5 | 17-11 | 18-5 | 19-0 | 19-6 | 20-0 | 20-5 | 20-11 | 21-5 |
| 625.00 | 18-3 | 18-10 | 19-5 | 20-0 | 20-7 | 21-1 | 21-8 | 22-2 | 22-8 | 23-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 0.42 | 2342 | 0.39 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 0.19 | 2932 | 0.19 | 2942 |
| 30 | 0 | 0 | 0 | 0.44 | 0.29 | 1905 | 0.25 | 2167 |
| 40 | 0 | 0 | 0 | 0.44 | 0.35 | 1581 | 0.29 | 1904 |
| 50 | 0 | 0 | 0 | 0.44 | 0.43 | 1281 | 0.33 | 1642 |
| 60 | 0 | 0 | 0 | 0.44 | 0.54 | 1019 | 0.4 | 1387 |
| 70 | 0 | 0 | 0 | 0.44 | 0.68 | 811 | 0.48 | 1148 |
| 80 | 0 | 0 | 0 | 0.44 | 0.83 | 661 | 0.59 | 937 |
| 90 | 0 | 0 | 0 | 0.44 | 0.92 | 595 | 0.72 | 767 |
| 100 | 0 | 0 | 0 | 0.44 | 1 | 552 | 0.86 | 638 |
| 110 | 0 | 0 | 0 | 0.44 | 1.07 | 514 | 1.01 | 545 |
| 120 | 0 | 0 | 0 | 0.44 | 1.14 | 481 | 1.14 | 481 |
| 130 | 0 | 0 | 0 | 0.44 | 1.22 | 451 | 1.22 | 451 |
| 167 | 0 | 0 | 0 | 0.44 | 1.49 | 368 | 1.49 | 368 |
| 212 | 0 | 0 | 0 | 0.44 | 1.8 | 305 | 1.8 | 305 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 1.69 | 2322 | 1.57 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 0.86 | 2568 | 0.81 | 2717 |
| 30 | 0 | 0 | 0 | 0.44 | 1.29 | 1704 | 1.1 | 2006 |
| 40 | 0 | 0 | 0 | 0.44 | 1.49 | 1473 | 1.23 | 1784 |
| 50 | 0 | 0 | 0 | 0.44 | 1.72 | 1278 | 1.39 | 1578 |
| 60 | 0 | 0 | 0 | 0.44 | 1.97 | 1120 | 1.58 | 1392 |
| 70 | 0 | 0 | 0 | 0.44 | 2.21 | 994 | 1.79 | 1231 |
| 80 | 0 | 0 | 0 | 0.44 | 2.46 | 894 | 2.01 | 1095 |
| 90 | 0 | 0 | 0 | 0.44 | 2.71 | 814 | 2.24 | 983 |
| 100 | 0 | 0 | 0 | 0.44 | 2.9 | 759 | 2.47 | 891 |
| 110 | 0 | 0 | 0 | 0.44 | 3.02 | 729 | 2.7 | 816 |
| 120 | 0 | 0 | 0 | 0.44 | 3.14 | 702 | 2.92 | 753 |
| 130 | 0 | 0 | 0 | 0.44 | 3.26 | 676 | 3.14 | 702 |
| 167 | 0 | 0 | 0 | 0.44 | 3.69 | 597 | 3.68 | 598 |
| 212 | 0 | 0 | 0 | 0.44 | 4.2 | 525 | 4.19 | 526 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 3.77 | 2340 | 3.53 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 2.28 | 2170 | 2.06 | 2400 |
| 30 | 0 | 0 | 0 | 0.44 | 3.16 | 1568 | 2.71 | 1825 |
| 40 | 0 | 0 | 0 | 0.44 | 3.48 | 1422 | 2.98 | 1664 |
| 50 | 0 | 0 | 0 | 0.44 | 3.81 | 1300 | 3.26 | 1521 |
| 60 | 0 | 0 | 0 | 0.44 | 4.14 | 1198 | 3.55 | 1396 |
| 70 | 0 | 0 | 0 | 0.44 | 4.46 | 1112 | 3.85 | 1288 |
| 80 | 0 | 0 | 0 | 0.44 | 4.77 | 1039 | 4.15 | 1195 |
| 90 | 0 | 0 | 0 | 0.44 | 5.07 | 977 | 4.44 | 1115 |
| 100 | 0 | 0 | 0 | 0.44 | 5.37 | 923 | 4.74 | 1046 |
| 110 | 0 | 0 | 0 | 0.44 | 5.63 | 880 | 5.03 | 986 |
| 120 | 0 | 0 | 0 | 0.44 | 5.79 | 857 | 5.31 | 933 |
| 130 | 0 | 0 | 0 | 0.44 | 5.94 | 835 | 5.59 | 887 |
| 167 | 0 | 0 | 0 | 0.44 | 6.5 | 763 | 6.49 | 765 |
| 212 | 0 | 0 | 0 | 0.44 | 7.16 | 693 | 7.15 | 694 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 6.62 | 2368 | 6.27 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 4.69 | 1876 | 4.21 | 2090 |
| 30 | 0 | 0 | 0 | 0.44 | 5.88 | 1498 | 5.22 | 1686 |
| 40 | 0 | 0 | 0 | 0.44 | 6.27 | 1405 | 5.58 | 1579 |
| 50 | 0 | 0 | 0 | 0.44 | 6.66 | 1323 | 5.94 | 1483 |
| 60 | 0 | 0 | 0 | 0.44 | 7.03 | 1252 | 6.3 | 1399 |
| 70 | 0 | 0 | 0 | 0.44 | 7.4 | 1190 | 6.65 | 1324 |
| 80 | 0 | 0 | 0 | 0.44 | 7.76 | 1135 | 7.01 | 1257 |
| 90 | 0 | 0 | 0 | 0.44 | 8.12 | 1086 | 7.36 | 1198 |
| 100 | 0 | 0 | 0 | 0.44 | 8.46 | 1042 | 7.7 | 1145 |
| 110 | 0 | 0 | 0 | 0.44 | 8.79 | 1003 | 8.03 | 1097 |
| 120 | 0 | 0 | 0 | 0.44 | 9.08 | 971 | 8.36 | 1054 |
| 130 | 0 | 0 | 0 | 0.44 | 9.27 | 952 | 8.68 | 1016 |
| 167 | 0 | 0 | 0 | 0.44 | 9.94 | 888 | 9.81 | 899 |
| 212 | 0 | 0 | 0 | 0.44 | 10.72 | 823 | 10.7 | 825 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 10.24 | 2394 | 9.81 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 8.08 | 1704 | 7.38 | 1864 |
| 30 | 0 | 0 | 0 | 0.44 | 9.41 | 1463 | 8.62 | 1598 |
| 40 | 0 | 0 | 0 | 0.44 | 9.84 | 1399 | 9.03 | 1525 |
| 50 | 0 | 0 | 0 | 0.44 | 10.27 | 1342 | 9.43 | 1460 |
| 60 | 0 | 0 | 0 | 0.44 | 10.68 | 1290 | 9.83 | 1400 |
| 70 | 0 | 0 | 0 | 0.44 | 11.08 | 1243 | 10.23 | 1347 |
| 80 | 0 | 0 | 0 | 0.44 | 11.48 | 1201 | 10.62 | 1297 |
| 90 | 0 | 0 | 0 | 0.44 | 11.86 | 1162 | 11 | 1252 |
| 100 | 0 | 0 | 0 | 0.44 | 12.24 | 1126 | 11.38 | 1211 |
| 110 | 0 | 0 | 0 | 0.44 | 12.61 | 1093 | 11.75 | 1173 |
| 120 | 0 | 0 | 0 | 0.44 | 12.97 | 1063 | 12.11 | 1138 |
| 130 | 0 | 0 | 0 | 0.44 | 13.26 | 1040 | 12.46 | 1106 |
| 167 | 0 | 0 | 0 | 0.44 | 14.02 | 984 | 13.73 | 1005 |
| 212 | 0 | 0 | 0 | 0.44 | 14.92 | 925 | 14.88 | 927 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-3 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 | 2-2 | 2-8 | 3-1 |
| 200.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-4 | 2-10 | 3-5 | 4-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125.00 | 0-5 | 0-5 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-5 | 1-7 | 1-8 |
| 150.00 | 0-7 | 0-8 | 0-9 | 1-0 | 1-3 | 1-6 | 1-10 | 2-1 | 2-3 | 2-5 |
| 175.00 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-1 | 2-7 | 2-10 | 3-1 | 3-3 |
| 200.00 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-9 | 3-4 | 3-8 | 4-0 | 4-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 |
| 200.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-8 |
| 225.00 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-5 |
| 250.00 | 1-6 | 1-9 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-10 | 4-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-2 |
| 150.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-8 |
| 175.00 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-4 |
| 200.00 | 1-1 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-0 |
| 225.00 | 1-5 | 1-8 | 1-11 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 3-10 |
| 250.00 | 1-9 | 2-0 | 2-4 | 2-8 | 3-1 | 3-6 | 3-10 | 4-3 | 4-6 | 4-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 200.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 225.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 250.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-6 |
| 275.00 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 |
| 300.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 | 5-0 |
| 325.00 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 | 5-7 | 5-11 |
| 350.00 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 | 6-1 | 6-5 | 6-10 |
| 375.00 | 3-10 | 4-3 | 4-8 | 5-1 | 5-7 | 6-0 | 6-6 | 6-11 | 7-5 | 7-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 |
| 225.00 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 250.00 | 2-0 | 2-2 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 |
| 275.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 |
| 300.00 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 | 5-4 | 5-8 |
| 325.00 | 3-4 | 3-8 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 | 5-11 | 6-4 | 6-7 |
| 350.00 | 3-10 | 4-4 | 4-9 | 5-2 | 5-8 | 6-1 | 6-6 | 6-11 | 7-4 | 7-8 |
| 375.00 | 4-5 | 4-11 | 5-5 | 5-11 | 6-6 | 7-0 | 7-5 | 7-11 | 8-5 | 8-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 225.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 250.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 |
| 275.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 300.00 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 |
| 325.00 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 |
| 350.00 | 3-9 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 |
| 375.00 | 4-3 | 4-7 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 |
| 400.00 | 4-10 | 5-3 | 5-7 | 5-11 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 |
| 425.00 | 5-6 | 5-11 | 6-4 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-8 | 9-1 |
| 450.00 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-5 | 8-10 | 9-4 | 9-9 | 10-2 |
| 475.00 | 6-10 | 7-4 | 7-10 | 8-4 | 8-11 | 9-5 | 9-11 | 10-4 | 10-10 | 11-4 |
| 500.00 | 7-7 | 8-2 | 8-9 | 9-3 | 9-10 | 10-5 | 10-11 | 11-6 | 12-0 | 12-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 |
| 250.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 |
| 275.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 300.00 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 |
| 325.00 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-7 | 5-10 |
| 350.00 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-3 | 6-6 | 6-9 |
| 375.00 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 |
| 400.00 | 5-6 | 5-11 | 6-3 | 6-8 | 7-0 | 7-5 | 7-9 | 8-1 | 8-5 | 8-9 |
| 425.00 | 6-2 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 | 9-2 | 9-7 | 9-11 |
| 450.00 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-4 | 9-10 | 10-3 | 10-8 | 11-2 |
| 475.00 | 7-9 | 8-4 | 8-10 | 9-5 | 9-11 | 10-5 | 10-11 | 11-5 | 11-11 | 12-5 |
| 500.00 | 8-7 | 9-2 | 9-10 | 10-5 | 11-0 | 11-7 | 12-2 | 12-8 | 13-3 | 13-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 275.00 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-7 |
| 300.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 |
| 325.00 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 350.00 | 4-0 | 4-3 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 |
| 375.00 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 |
| 400.00 | 5-3 | 5-6 | 5-9 | 6-0 | 6-4 | 6-7 | 6-10 | 7-0 | 7-3 | 7-6 |
| 425.00 | 5-11 | 6-3 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 | 7-11 | 8-3 | 8-6 |
| 450.00 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-3 | 8-7 | 8-11 | 9-3 | 9-6 |
| 475.00 | 7-5 | 7-9 | 8-2 | 8-6 | 8-10 | 9-3 | 9-7 | 9-11 | 10-3 | 10-7 |
| 500.00 | 8-2 | 8-7 | 9-0 | 9-5 | 9-10 | 10-3 | 10-7 | 11-0 | 11-5 | 11-9 |
| 525.00 | 9-1 | 9-6 | 9-11 | 10-5 | 10-10 | 11-3 | 11-8 | 12-2 | 12-7 | 12-11 |
| 550.00 | 9-11 | 10-5 | 10-11 | 11-5 | 11-11 | 12-5 | 12-10 | 13-4 | 13-9 | 14-3 |
| 575.00 | 10-10 | 11-5 | 11-11 | 12-6 | 13-0 | 13-6 | 14-1 | 14-7 | 15-1 | 15-6 |
| 600.00 | 11-10 | 12-5 | 13-0 | 13-7 | 14-2 | 14-9 | 15-4 | 15-10 | 16-5 | 16-11 |
| 625.00 | 12-10 | 13-6 | 14-1 | 14-9 | 15-4 | 16-0 | 16-7 | 17-2 | 17-9 | 18-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 |
| 275.00 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-10 |
| 300.00 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 |
| 325.00 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 |
| 350.00 | 4-5 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-10 | 6-0 | 6-2 |
| 375.00 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-11 | 7-1 |
| 400.00 | 5-9 | 6-0 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 |
| 425.00 | 6-6 | 6-10 | 7-1 | 7-5 | 7-9 | 8-0 | 8-3 | 8-7 | 8-10 | 9-1 |
| 450.00 | 7-3 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 | 9-7 | 9-11 | 10-3 |
| 475.00 | 8-1 | 8-6 | 8-11 | 9-3 | 9-8 | 10-0 | 10-4 | 10-8 | 11-1 | 11-5 |
| 500.00 | 9-0 | 9-5 | 9-10 | 10-3 | 10-8 | 11-1 | 11-6 | 11-10 | 12-3 | 12-7 |
| 525.00 | 9-11 | 10-5 | 10-10 | 11-4 | 11-9 | 12-3 | 12-8 | 13-1 | 13-6 | 13-11 |
| 550.00 | 10-10 | 11-5 | 11-11 | 12-5 | 12-11 | 13-5 | 13-11 | 14-4 | 14-10 | 15-3 |
| 575.00 | 11-10 | 12-5 | 13-0 | 13-7 | 14-1 | 14-8 | 15-2 | 15-8 | 16-2 | 16-8 |
| 600.00 | 12-11 | 13-7 | 14-2 | 14-9 | 15-5 | 16-0 | 16-6 | 17-1 | 17-8 | 18-2 |
| 625.00 | 14-0 | 14-9 | 15-5 | 16-1 | 16-8 | 17-4 | 17-11 | 18-6 | 19-2 | 19-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 0.36 | 2716 | 0.33 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.16 | 3339 | 0.16 | 3450 |
| 30 | 0 | 0 | 0 | 0.44 | 0.24 | 2295 | 0.2 | 2695 |
| 40 | 0 | 0 | 0 | 0.44 | 0.28 | 1958 | 0.23 | 2434 |
| 50 | 0 | 0 | 0 | 0.44 | 0.34 | 1632 | 0.25 | 2170 |
| 60 | 0 | 0 | 0 | 0.44 | 0.41 | 1327 | 0.29 | 1905 |
| 70 | 0 | 0 | 0 | 0.44 | 0.52 | 1057 | 0.34 | 1641 |
| 80 | 0 | 0 | 0 | 0.44 | 0.65 | 840 | 0.4 | 1385 |
| 90 | 0 | 0 | 0 | 0.44 | 0.75 | 738 | 0.48 | 1145 |
| 100 | 0 | 0 | 0 | 0.44 | 0.81 | 682 | 0.59 | 934 |
| 110 | 0 | 0 | 0 | 0.44 | 0.87 | 630 | 0.72 | 763 |
| 120 | 0 | 0 | 0 | 0.44 | 0.94 | 584 | 0.87 | 635 |
| 130 | 0 | 0 | 0 | 0.44 | 1.01 | 542 | 1 | 548 |
| 167 | 0 | 0 | 0 | 0.44 | 1.29 | 426 | 1.28 | 429 |
| 212 | 0 | 0 | 0 | 0.44 | 1.62 | 340 | 1.61 | 342 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 1.44 | 2720 | 1.31 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.71 | 3087 | 0.67 | 3297 |
| 30 | 0 | 0 | 0 | 0.44 | 1.03 | 2139 | 0.86 | 2571 |
| 40 | 0 | 0 | 0 | 0.44 | 1.18 | 1858 | 0.94 | 2330 |
| 50 | 0 | 0 | 0 | 0.44 | 1.37 | 1607 | 1.05 | 2093 |
| 60 | 0 | 0 | 0 | 0.44 | 1.58 | 1390 | 1.18 | 1865 |
| 70 | 0 | 0 | 0 | 0.44 | 1.82 | 1210 | 1.33 | 1651 |
| 80 | 0 | 0 | 0 | 0.44 | 2.07 | 1065 | 1.51 | 1456 |
| 90 | 0 | 0 | 0 | 0.44 | 2.32 | 951 | 1.71 | 1284 |
| 100 | 0 | 0 | 0 | 0.44 | 2.51 | 876 | 1.93 | 1139 |
| 110 | 0 | 0 | 0 | 0.44 | 2.63 | 837 | 2.16 | 1018 |
| 120 | 0 | 0 | 0 | 0.44 | 2.75 | 801 | 2.39 | 920 |
| 130 | 0 | 0 | 0 | 0.44 | 2.87 | 768 | 2.62 | 839 |
| 167 | 0 | 0 | 0 | 0.44 | 3.31 | 665 | 3.29 | 670 |
| 212 | 0 | 0 | 0 | 0.44 | 3.83 | 575 | 3.81 | 578 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 3.21 | 2747 | 2.94 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 1.79 | 2763 | 1.62 | 3061 |
| 30 | 0 | 0 | 0 | 0.44 | 2.49 | 1987 | 2.06 | 2400 |
| 40 | 0 | 0 | 0 | 0.44 | 2.78 | 1781 | 2.26 | 2194 |
| 50 | 0 | 0 | 0 | 0.44 | 3.09 | 1603 | 2.48 | 2000 |
| 60 | 0 | 0 | 0 | 0.44 | 3.41 | 1452 | 2.72 | 1821 |
| 70 | 0 | 0 | 0 | 0.44 | 3.74 | 1325 | 2.98 | 1659 |
| 80 | 0 | 0 | 0 | 0.44 | 4.07 | 1218 | 3.27 | 1516 |
| 90 | 0 | 0 | 0 | 0.44 | 4.39 | 1129 | 3.56 | 1391 |
| 100 | 0 | 0 | 0 | 0.44 | 4.7 | 1054 | 3.86 | 1283 |
| 110 | 0 | 0 | 0 | 0.44 | 4.98 | 995 | 4.16 | 1190 |
| 120 | 0 | 0 | 0 | 0.44 | 5.14 | 964 | 4.46 | 1110 |
| 130 | 0 | 0 | 0 | 0.44 | 5.3 | 936 | 4.76 | 1042 |
| 167 | 0 | 0 | 0 | 0.44 | 5.87 | 844 | 5.8 | 855 |
| 212 | 0 | 0 | 0 | 0.44 | 6.56 | 756 | 6.52 | 760 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 5.63 | 2782 | 5.23 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 3.59 | 2453 | 3.16 | 2783 |
| 30 | 0 | 0 | 0 | 0.44 | 4.68 | 1881 | 3.95 | 2228 |
| 40 | 0 | 0 | 0 | 0.44 | 5.07 | 1736 | 4.26 | 2066 |
| 50 | 0 | 0 | 0 | 0.44 | 5.47 | 1610 | 4.59 | 1919 |
| 60 | 0 | 0 | 0 | 0.44 | 5.86 | 1502 | 4.93 | 1786 |
| 70 | 0 | 0 | 0 | 0.44 | 6.26 | 1408 | 5.28 | 1666 |
| 80 | 0 | 0 | 0 | 0.44 | 6.64 | 1326 | 5.64 | 1560 |
| 90 | 0 | 0 | 0 | 0.44 | 7.02 | 1255 | 6.01 | 1466 |
| 100 | 0 | 0 | 0 | 0.44 | 7.39 | 1192 | 6.37 | 1383 |
| 110 | 0 | 0 | 0 | 0.44 | 7.75 | 1137 | 6.73 | 1310 |
| 120 | 0 | 0 | 0 | 0.44 | 8.08 | 1091 | 7.08 | 1244 |
| 130 | 0 | 0 | 0 | 0.44 | 8.27 | 1066 | 7.43 | 1186 |
| 167 | 0 | 0 | 0 | 0.44 | 8.96 | 984 | 8.66 | 1018 |
| 212 | 0 | 0 | 0 | 0.44 | 9.78 | 902 | 9.73 | 906 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.783 | 8.7 | 2818 | 8.17 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 6.21 | 2217 | 5.47 | 2515 |
| 30 | 0 | 0 | 0 | 0.44 | 7.58 | 1816 | 6.59 | 2087 |
| 40 | 0 | 0 | 0 | 0.44 | 8.04 | 1713 | 7 | 1967 |
| 50 | 0 | 0 | 0 | 0.44 | 8.49 | 1621 | 7.41 | 1858 |
| 60 | 0 | 0 | 0 | 0.44 | 8.94 | 1540 | 7.82 | 1760 |
| 70 | 0 | 0 | 0 | 0.44 | 9.38 | 1468 | 8.24 | 1671 |
| 80 | 0 | 0 | 0 | 0.44 | 9.81 | 1404 | 8.65 | 1591 |
| 90 | 0 | 0 | 0 | 0.44 | 10.23 | 1346 | 9.07 | 1519 |
| 100 | 0 | 0 | 0 | 0.44 | 10.64 | 1294 | 9.47 | 1454 |
| 110 | 0 | 0 | 0 | 0.44 | 11.05 | 1247 | 9.88 | 1394 |
| 120 | 0 | 0 | 0 | 0.44 | 11.44 | 1204 | 10.27 | 1341 |
| 130 | 0 | 0 | 0 | 0.44 | 11.79 | 1169 | 10.66 | 1292 |
| 167 | 0 | 0 | 0 | 0.44 | 12.58 | 1095 | 12.05 | 1144 |
| 212 | 0 | 0 | 0 | 0.44 | 13.53 | 1020 | 13.46 | 1024 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 |
| 175.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 | 2-2 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-4 | 2-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-6 | 0-6 | 0-8 | 0-9 | 0-11 | 1-2 | 1-6 | 1-8 | 1-10 | 2-0 |
| 175.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-3 | 2-6 | 2-8 |
| 200.00 | 0-10 | 1-0 | 1-1 | 1-4 | 1-8 | 2-1 | 2-7 | 3-0 | 3-3 | 3-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 125.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-9 |
| 250.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 3-0 | 3-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-0 |
| 200.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 | 2-6 | 2-8 |
| 225.00 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-7 | 2-11 | 3-2 | 3-4 |
| 250.00 | 1-5 | 1-7 | 1-10 | 2-2 | 2-6 | 2-10 | 3-3 | 3-7 | 3-11 | 4-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 175.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 |
| 225.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 250.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 |
| 275.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 |
| 300.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 |
| 325.00 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-11 |
| 350.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 |
| 375.00 | 2-11 | 3-3 | 3-6 | 3-10 | 4-3 | 4-8 | 5-1 | 5-7 | 6-0 | 6-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 |
| 200.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 225.00 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 |
| 250.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 |
| 275.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 |
| 300.00 | 2-3 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-8 | 5-0 |
| 325.00 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 |
| 350.00 | 3-0 | 3-5 | 3-9 | 4-2 | 4-8 | 5-1 | 5-6 | 6-0 | 6-5 | 6-9 |
| 375.00 | 3-6 | 3-11 | 4-4 | 4-10 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 225.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |
| 250.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 |
| 275.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 300.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 |
| 325.00 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-2 | 4-5 |
| 350.00 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-11 | 5-2 |
| 375.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 |
| 400.00 | 3-8 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-9 |
| 425.00 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 6-0 | 6-4 | 6-9 | 7-2 | 7-7 |
| 450.00 | 4-8 | 5-0 | 5-5 | 5-10 | 6-3 | 6-8 | 7-2 | 7-7 | 8-1 | 8-6 |
| 475.00 | 5-2 | 5-7 | 6-0 | 6-6 | 6-11 | 7-5 | 8-0 | 8-6 | 9-0 | 9-6 |
| 500.00 | 5-9 | 6-2 | 6-8 | 7-2 | 7-8 | 8-3 | 8-10 | 9-5 | 9-11 | 10-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 225.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 250.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 |
| 275.00 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-8 |
| 300.00 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 |
| 325.00 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 |
| 350.00 | 3-3 | 3-7 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 |
| 375.00 | 3-9 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 |
| 400.00 | 4-4 | 4-8 | 5-1 | 5-6 | 5-10 | 6-3 | 6-8 | 7-0 | 7-5 | 7-9 |
| 425.00 | 4-10 | 5-3 | 5-9 | 6-2 | 6-7 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 |
| 450.00 | 5-5 | 5-11 | 6-5 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-4 | 9-10 |
| 475.00 | 6-1 | 6-7 | 7-2 | 7-9 | 8-3 | 8-10 | 9-4 | 9-11 | 10-5 | 10-11 |
| 500.00 | 6-9 | 7-4 | 7-11 | 8-7 | 9-2 | 9-9 | 10-5 | 11-0 | 11-7 | 12-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 |
| 275.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 |
| 300.00 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 |
| 325.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 350.00 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 4-10 |
| 375.00 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 | 5-7 |
| 400.00 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 |
| 425.00 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 |
| 450.00 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 |
| 475.00 | 5-7 | 5-11 | 6-4 | 6-8 | 7-1 | 7-5 | 7-10 | 8-2 | 8-7 | 8-11 |
| 500.00 | 6-2 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 | 9-1 | 9-6 | 9-11 |
| 525.00 | 6-10 | 7-3 | 7-9 | 8-2 | 8-7 | 9-1 | 9-6 | 10-0 | 10-5 | 10-11 |
| 550.00 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-6 | 11-0 | 11-6 | 11-11 |
| 575.00 | 8-2 | 8-9 | 9-3 | 9-10 | 10-4 | 10-11 | 11-5 | 12-0 | 12-6 | 13-1 |
| 600.00 | 8-11 | 9-6 | 10-1 | 10-8 | 11-3 | 11-10 | 12-6 | 13-1 | 13-8 | 14-3 |
| 625.00 | 9-8 | 10-4 | 10-11 | 11-7 | 12-3 | 12-10 | 13-6 | 14-2 | 14-10 | 15-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 |
| 275.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 |
| 300.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 |
| 325.00 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 |
| 350.00 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 |
| 375.00 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 |
| 400.00 | 4-7 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 |
| 425.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-5 | 6-9 | 7-1 | 7-5 | 7-8 | 8-0 |
| 450.00 | 5-9 | 6-2 | 6-6 | 6-11 | 7-3 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 |
| 475.00 | 6-5 | 6-10 | 7-3 | 7-8 | 8-1 | 8-6 | 8-10 | 9-3 | 9-7 | 10-0 |
| 500.00 | 7-1 | 7-7 | 8-0 | 8-6 | 8-11 | 9-5 | 9-10 | 10-3 | 10-8 | 11-1 |
| 525.00 | 7-10 | 8-4 | 8-10 | 9-4 | 9-10 | 10-4 | 10-10 | 11-3 | 11-9 | 12-2 |
| 550.00 | 8-7 | 9-2 | 9-9 | 10-3 | 10-10 | 11-4 | 11-10 | 12-5 | 12-11 | 13-4 |
| 575.00 | 9-5 | 10-0 | 10-8 | 11-3 | 11-10 | 12-5 | 13-0 | 13-6 | 14-1 | 14-7 |
| 600.00 | 10-3 | 10-11 | 11-7 | 12-3 | 12-10 | 13-6 | 14-2 | 14-9 | 15-4 | 15-11 |
| 625.00 | 11-1 | 11-10 | 12-7 | 13-3 | 14-0 | 14-8 | 15-4 | 16-0 | 16-8 | 17-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 1.51 | 989 | 1.49 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.84 | 658 | 0.81 | 683 |
| 30 | 0 | 0 | 0 | 0.44 | 0.99 | 554 | 0.95 | 579 |
| 40 | 0 | 0 | 0 | 0.44 | 1.14 | 482 | 1.09 | 503 |
| 50 | 0 | 0 | 0 | 0.44 | 1.28 | 429 | 1.23 | 447 |
| 60 | 0 | 0 | 0 | 0.44 | 1.42 | 389 | 1.36 | 404 |
| 70 | 0 | 0 | 0 | 0.44 | 1.54 | 357 | 1.48 | 371 |
| 80 | 0 | 0 | 0 | 0.44 | 1.65 | 333 | 1.6 | 344 |
| 90 | 0 | 0 | 0 | 0.44 | 1.72 | 320 | 1.71 | 322 |
| 100 | 0 | 0 | 0 | 0.44 | 1.79 | 307 | 1.79 | 307 |
| 110 | 0 | 0 | 0 | 0.44 | 1.86 | 296 | 1.86 | 296 |
| 120 | 0 | 0 | 0 | 0.44 | 1.92 | 287 | 1.92 | 287 |
| 130 | 0 | 0 | 0 | 0.44 | 1.98 | 278 | 1.98 | 278 |
| 167 | 0 | 0 | 0 | 0.44 | 2.2 | 250 | 2.2 | 250 |
| 212 | 0 | 0 | 0 | 0.44 | 2.45 | 225 | 2.45 | 225 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 6.01 | 997 | 5.99 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 5.35 | 413 | 5.31 | 416 |
| 30 | 0 | 0 | 0 | 0.44 | 5.49 | 402 | 5.45 | 405 |
| 40 | 0 | 0 | 0 | 0.44 | 5.63 | 392 | 5.58 | 395 |
| 50 | 0 | 0 | 0 | 0.44 | 5.77 | 382 | 5.72 | 386 |
| 60 | 0 | 0 | 0 | 0.44 | 5.91 | 374 | 5.85 | 377 |
| 70 | 0 | 0 | 0 | 0.44 | 6.04 | 366 | 5.98 | 369 |
| 80 | 0 | 0 | 0 | 0.44 | 6.17 | 358 | 6.11 | 362 |
| 90 | 0 | 0 | 0 | 0.44 | 6.27 | 352 | 6.23 | 354 |
| 100 | 0 | 0 | 0 | 0.44 | 6.35 | 348 | 6.35 | 348 |
| 110 | 0 | 0 | 0 | 0.44 | 6.43 | 343 | 6.43 | 343 |
| 120 | 0 | 0 | 0 | 0.44 | 6.51 | 339 | 6.51 | 339 |
| 130 | 0 | 0 | 0 | 0.44 | 6.59 | 335 | 6.59 | 335 |
| 167 | 0 | 0 | 0 | 0.44 | 6.88 | 321 | 6.88 | 321 |
| 212 | 0 | 0 | 0 | 0.44 | 7.21 | 307 | 7.21 | 307 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 13.56 | 999 | 13.54 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 12.91 | 386 | 12.87 | 388 |
| 30 | 0 | 0 | 0 | 0.44 | 13.05 | 382 | 13 | 384 |
| 40 | 0 | 0 | 0 | 0.44 | 13.18 | 378 | 13.14 | 380 |
| 50 | 0 | 0 | 0 | 0.44 | 13.32 | 375 | 13.27 | 376 |
| 60 | 0 | 0 | 0 | 0.44 | 13.46 | 371 | 13.4 | 372 |
| 70 | 0 | 0 | 0 | 0.44 | 13.59 | 367 | 13.53 | 369 |
| 80 | 0 | 0 | 0 | 0.44 | 13.72 | 364 | 13.66 | 365 |
| 90 | 0 | 0 | 0 | 0.44 | 13.83 | 361 | 13.79 | 362 |
| 100 | 0 | 0 | 0 | 0.44 | 13.92 | 359 | 13.92 | 359 |
| 110 | 0 | 0 | 0 | 0.44 | 14 | 357 | 14 | 357 |
| 120 | 0 | 0 | 0 | 0.44 | 14.09 | 354 | 14.09 | 354 |
| 130 | 0 | 0 | 0 | 0.44 | 14.17 | 352 | 14.17 | 352 |
| 167 | 0 | 0 | 0 | 0.44 | 14.48 | 345 | 14.48 | 345 |
| 212 | 0 | 0 | 0 | 0.44 | 14.85 | 337 | 14.85 | 337 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 24.25 | 999 | 24.23 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 23.6 | 378 | 23.56 | 379 |
| 30 | 0 | 0 | 0 | 0.44 | 23.74 | 376 | 23.69 | 377 |
| 40 | 0 | 0 | 0 | 0.44 | 23.87 | 374 | 23.83 | 375 |
| 50 | 0 | 0 | 0 | 0.44 | 24.01 | 372 | 23.96 | 373 |
| 60 | 0 | 0 | 0 | 0.44 | 24.14 | 370 | 24.09 | 371 |
| 70 | 0 | 0 | 0 | 0.44 | 24.28 | 368 | 24.22 | 369 |
| 80 | 0 | 0 | 0 | 0.44 | 24.41 | 366 | 24.35 | 367 |
| 90 | 0 | 0 | 0 | 0.44 | 24.52 | 364 | 24.48 | 365 |
| 100 | 0 | 0 | 0 | 0.44 | 24.61 | 363 | 24.61 | 363 |
| 110 | 0 | 0 | 0 | 0.44 | 24.7 | 362 | 24.7 | 362 |
| 120 | 0 | 0 | 0 | 0.44 | 24.79 | 360 | 24.79 | 360 |
| 130 | 0 | 0 | 0 | 0.44 | 24.88 | 359 | 24.88 | 359 |
| 167 | 0 | 0 | 0 | 0.44 | 25.2 | 355 | 25.2 | 355 |
| 212 | 0 | 0 | 0 | 0.44 | 25.58 | 350 | 25.58 | 350 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 38.2 | 1000 | 38.19 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 37.56 | 374 | 37.52 | 375 |
| 30 | 0 | 0 | 0 | 0.44 | 37.69 | 373 | 37.65 | 374 |
| 40 | 0 | 0 | 0 | 0.44 | 37.83 | 372 | 37.78 | 372 |
| 50 | 0 | 0 | 0 | 0.44 | 37.96 | 371 | 37.91 | 371 |
| 60 | 0 | 0 | 0 | 0.44 | 38.1 | 369 | 38.04 | 370 |
| 70 | 0 | 0 | 0 | 0.44 | 38.23 | 368 | 38.17 | 369 |
| 80 | 0 | 0 | 0 | 0.44 | 38.37 | 367 | 38.31 | 367 |
| 90 | 0 | 0 | 0 | 0.44 | 38.48 | 366 | 38.44 | 366 |
| 100 | 0 | 0 | 0 | 0.44 | 38.57 | 365 | 38.57 | 365 |
| 110 | 0 | 0 | 0 | 0.44 | 38.66 | 364 | 38.66 | 364 |
| 120 | 0 | 0 | 0 | 0.44 | 38.75 | 363 | 38.75 | 363 |
| 130 | 0 | 0 | 0 | 0.44 | 38.84 | 363 | 38.84 | 363 |
| 167 | 0 | 0 | 0 | 0.44 | 39.16 | 360 | 39.16 | 360 |
| 212 | 0 | 0 | 0 | 0.44 | 39.55 | 356 | 39.55 | 356 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-10 |
| 125.00 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 |
| 150.00 | 1-10 | 2-2 | 2-6 | 2-9 | 3-1 | 3-4 | 3-7 | 3-10 | 4-0 | 4-2 |
| 175.00 | 2-6 | 2-11 | 3-4 | 3-9 | 4-2 | 4-7 | 4-11 | 5-3 | 5-6 | 5-8 |
| 200.00 | 3-3 | 3-10 | 4-5 | 4-11 | 5-5 | 5-11 | 6-5 | 6-10 | 7-2 | 7-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-10 |
| 125.00 | 1-4 | 1-7 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 |
| 150.00 | 1-11 | 2-3 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 | 3-11 | 4-0 | 4-2 |
| 175.00 | 2-7 | 3-0 | 3-6 | 3-11 | 4-4 | 4-9 | 5-1 | 5-3 | 5-6 | 5-8 |
| 200.00 | 3-4 | 4-0 | 4-7 | 5-2 | 5-8 | 6-2 | 6-8 | 6-11 | 7-2 | 7-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 |
| 150.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 |
| 175.00 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 200.00 | 5-4 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 |
| 225.00 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 |
| 250.00 | 8-4 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 |
| 150.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 |
| 175.00 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-10 | 4-11 |
| 200.00 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 |
| 225.00 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 7-11 | 8-0 | 8-2 |
| 250.00 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-8 | 9-10 | 9-11 | 10-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 |
| 175.00 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 |
| 200.00 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 |
| 225.00 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-10 |
| 250.00 | 8-11 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 |
| 275.00 | 10-10 | 10-11 | 11-0 | 11-2 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-9 |
| 300.00 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-6 | 13-8 | 13-9 | 13-11 | 14-0 |
| 325.00 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 | 16-5 |
| 350.00 | 17-6 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 19-0 | 19-1 |
| 375.00 | 20-2 | 20-4 | 20-7 | 20-9 | 21-0 | 21-2 | 21-5 | 21-7 | 21-9 | 21-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 |
| 175.00 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 |
| 200.00 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 |
| 225.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 |
| 250.00 | 8-11 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 |
| 275.00 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 |
| 300.00 | 12-11 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 | 13-10 | 13-11 | 14-0 |
| 325.00 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 15-11 | 16-1 | 16-3 | 16-4 | 16-5 |
| 350.00 | 17-7 | 17-9 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 | 19-1 |
| 375.00 | 20-2 | 20-5 | 20-8 | 20-10 | 21-1 | 21-3 | 21-6 | 21-8 | 21-9 | 21-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 |
| 225.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 |
| 250.00 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 |
| 275.00 | 11-1 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 |
| 300.00 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-10 |
| 325.00 | 15-6 | 15-7 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-3 |
| 350.00 | 18-0 | 18-1 | 18-3 | 18-4 | 18-5 | 18-6 | 18-7 | 18-9 | 18-10 | 18-11 |
| 375.00 | 20-8 | 20-10 | 20-11 | 21-1 | 21-2 | 21-3 | 21-5 | 21-6 | 21-7 | 21-8 |
| 400.00 | 23-7 | 23-8 | 23-10 | 24-0 | 24-1 | 24-3 | 24-4 | 24-6 | 24-7 | 24-8 |
| 425.00 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 | 27-4 | 27-6 | 27-8 | 27-10 | 27-11 |
| 450.00 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 |
| 475.00 | 33-3 | 33-6 | 33-8 | 33-10 | 34-0 | 34-3 | 34-5 | 34-7 | 34-9 | 34-11 |
| 500.00 | 36-11 | 37-1 | 37-4 | 37-6 | 37-9 | 37-11 | 38-2 | 38-4 | 38-7 | 38-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 |
| 225.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 |
| 250.00 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 | 9-7 |
| 275.00 | 11-2 | 11-2 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 |
| 300.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 |
| 325.00 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-3 |
| 350.00 | 18-1 | 18-2 | 18-3 | 18-4 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 |
| 375.00 | 20-9 | 20-10 | 21-0 | 21-1 | 21-2 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 |
| 400.00 | 23-7 | 23-9 | 23-10 | 24-0 | 24-2 | 24-3 | 24-5 | 24-6 | 24-7 | 24-8 |
| 425.00 | 26-8 | 26-10 | 27-0 | 27-1 | 27-3 | 27-5 | 27-7 | 27-8 | 27-10 | 27-11 |
| 450.00 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-2 | 31-4 |
| 475.00 | 33-4 | 33-6 | 33-9 | 33-11 | 34-1 | 34-4 | 34-6 | 34-8 | 34-9 | 34-11 |
| 500.00 | 37-0 | 37-2 | 37-5 | 37-7 | 37-10 | 38-0 | 38-3 | 38-5 | 38-7 | 38-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-4 | 9-4 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 |
| 275.00 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 |
| 300.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 |
| 325.00 | 15-9 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 |
| 350.00 | 18-4 | 18-5 | 18-5 | 18-6 | 18-7 | 18-8 | 18-8 | 18-9 | 18-10 | 18-10 |
| 375.00 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-7 | 21-8 |
| 400.00 | 23-11 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 |
| 425.00 | 27-1 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-9 | 27-10 | 27-10 |
| 450.00 | 30-4 | 30-5 | 30-7 | 30-8 | 30-9 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 |
| 475.00 | 33-10 | 33-11 | 34-1 | 34-2 | 34-4 | 34-5 | 34-7 | 34-8 | 34-9 | 34-10 |
| 500.00 | 37-6 | 37-8 | 37-9 | 37-11 | 38-1 | 38-2 | 38-4 | 38-5 | 38-7 | 38-8 |
| 525.00 | 41-5 | 41-6 | 41-8 | 41-10 | 42-0 | 42-1 | 42-3 | 42-5 | 42-7 | 42-8 |
| 550.00 | 45-6 | 45-8 | 45-9 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 | 46-9 | 46-10 |
| 575.00 | 49-9 | 49-11 | 50-1 | 50-3 | 50-5 | 50-7 | 50-9 | 50-11 | 51-2 | 51-3 |
| 600.00 | 54-2 | 54-5 | 54-7 | 54-9 | 55-0 | 55-2 | 55-4 | 55-6 | 55-9 | 55-10 |
| 625.00 | 58-10 | 59-1 | 59-3 | 59-6 | 59-8 | 59-11 | 60-1 | 60-4 | 60-6 | 60-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 |
| 275.00 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-7 | 11-8 |
| 300.00 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 |
| 325.00 | 15-10 | 15-10 | 15-11 | 16-0 | 16-0 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 |
| 350.00 | 18-4 | 18-5 | 18-6 | 18-6 | 18-7 | 18-8 | 18-9 | 18-9 | 18-10 | 18-10 |
| 375.00 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-7 | 21-8 |
| 400.00 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-7 | 24-8 |
| 425.00 | 27-1 | 27-2 | 27-3 | 27-4 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-10 |
| 450.00 | 30-5 | 30-6 | 30-7 | 30-8 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 |
| 475.00 | 33-10 | 34-0 | 34-1 | 34-3 | 34-4 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 |
| 500.00 | 37-7 | 37-8 | 37-10 | 38-0 | 38-1 | 38-3 | 38-4 | 38-6 | 38-7 | 38-8 |
| 525.00 | 41-5 | 41-7 | 41-9 | 41-11 | 42-0 | 42-2 | 42-4 | 42-5 | 42-7 | 42-8 |
| 550.00 | 45-6 | 45-8 | 45-10 | 46-0 | 46-2 | 46-4 | 46-6 | 46-8 | 46-9 | 46-10 |
| 575.00 | 49-9 | 50-0 | 50-2 | 50-4 | 50-6 | 50-8 | 50-10 | 51-0 | 51-2 | 51-3 |
| 600.00 | 54-3 | 54-5 | 54-8 | 54-10 | 55-1 | 55-3 | 55-5 | 55-7 | 55-9 | 55-10 |
| 625.00 | 58-11 | 59-2 | 59-4 | 59-7 | 59-9 | 60-0 | 60-2 | 60-5 | 60-6 | 60-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 1.05 | 1422 | 1 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 0.34 | 1619 | 0.32 | 1702 |
| 30 | 0 | 0 | 0 | 0.44 | 0.42 | 1315 | 0.38 | 1447 |
| 40 | 0 | 0 | 0 | 0.44 | 0.53 | 1047 | 0.46 | 1205 |
| 50 | 0 | 0 | 0 | 0.44 | 0.66 | 833 | 0.56 | 988 |
| 60 | 0 | 0 | 0 | 0.44 | 0.81 | 676 | 0.68 | 807 |
| 70 | 0 | 0 | 0 | 0.44 | 0.97 | 567 | 0.82 | 669 |
| 80 | 0 | 0 | 0 | 0.44 | 1.12 | 490 | 0.97 | 568 |
| 90 | 0 | 0 | 0 | 0.44 | 1.21 | 454 | 1.11 | 495 |
| 100 | 0 | 0 | 0 | 0.44 | 1.29 | 427 | 1.25 | 440 |
| 110 | 0 | 0 | 0 | 0.44 | 1.37 | 403 | 1.37 | 403 |
| 120 | 0 | 0 | 0 | 0.44 | 1.44 | 382 | 1.44 | 382 |
| 130 | 0 | 0 | 0 | 0.44 | 1.51 | 364 | 1.51 | 364 |
| 167 | 0 | 0 | 0 | 0.44 | 1.77 | 311 | 1.77 | 311 |
| 212 | 0 | 0 | 0 | 0.44 | 2.05 | 268 | 2.05 | 268 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 4.04 | 1480 | 3.99 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 2.87 | 767 | 2.74 | 803 |
| 30 | 0 | 0 | 0 | 0.44 | 3.1 | 710 | 2.96 | 744 |
| 40 | 0 | 0 | 0 | 0.44 | 3.32 | 664 | 3.17 | 694 |
| 50 | 0 | 0 | 0 | 0.44 | 3.53 | 624 | 3.38 | 652 |
| 60 | 0 | 0 | 0 | 0.44 | 3.73 | 591 | 3.58 | 616 |
| 70 | 0 | 0 | 0 | 0.44 | 3.92 | 562 | 3.77 | 585 |
| 80 | 0 | 0 | 0 | 0.44 | 4.11 | 536 | 3.95 | 557 |
| 90 | 0 | 0 | 0 | 0.44 | 4.29 | 514 | 4.13 | 533 |
| 100 | 0 | 0 | 0 | 0.44 | 4.41 | 500 | 4.31 | 512 |
| 110 | 0 | 0 | 0 | 0.44 | 4.52 | 488 | 4.47 | 493 |
| 120 | 0 | 0 | 0 | 0.44 | 4.62 | 477 | 4.62 | 477 |
| 130 | 0 | 0 | 0 | 0.44 | 4.73 | 466 | 4.73 | 466 |
| 167 | 0 | 0 | 0 | 0.44 | 5.09 | 433 | 5.09 | 433 |
| 212 | 0 | 0 | 0 | 0.44 | 5.52 | 400 | 5.52 | 400 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 9.04 | 1492 | 8.99 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 7.87 | 630 | 7.75 | 641 |
| 30 | 0 | 0 | 0 | 0.44 | 8.09 | 614 | 7.96 | 624 |
| 40 | 0 | 0 | 0 | 0.44 | 8.3 | 598 | 8.16 | 608 |
| 50 | 0 | 0 | 0 | 0.44 | 8.51 | 583 | 8.37 | 593 |
| 60 | 0 | 0 | 0 | 0.44 | 8.71 | 570 | 8.57 | 580 |
| 70 | 0 | 0 | 0 | 0.44 | 8.91 | 557 | 8.76 | 567 |
| 80 | 0 | 0 | 0 | 0.44 | 9.11 | 545 | 8.95 | 555 |
| 90 | 0 | 0 | 0 | 0.44 | 9.3 | 534 | 9.14 | 543 |
| 100 | 0 | 0 | 0 | 0.44 | 9.46 | 525 | 9.33 | 533 |
| 110 | 0 | 0 | 0 | 0.44 | 9.58 | 519 | 9.51 | 523 |
| 120 | 0 | 0 | 0 | 0.44 | 9.7 | 513 | 9.69 | 513 |
| 130 | 0 | 0 | 0 | 0.44 | 9.82 | 506 | 9.82 | 506 |
| 167 | 0 | 0 | 0 | 0.44 | 10.24 | 486 | 10.24 | 486 |
| 212 | 0 | 0 | 0 | 0.44 | 10.74 | 463 | 10.74 | 463 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 16.07 | 1495 | 16.02 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 14.92 | 593 | 14.79 | 598 |
| 30 | 0 | 0 | 0 | 0.44 | 15.13 | 585 | 15 | 590 |
| 40 | 0 | 0 | 0 | 0.44 | 15.33 | 577 | 15.2 | 582 |
| 50 | 0 | 0 | 0 | 0.44 | 15.54 | 570 | 15.4 | 575 |
| 60 | 0 | 0 | 0 | 0.44 | 15.74 | 562 | 15.6 | 568 |
| 70 | 0 | 0 | 0 | 0.44 | 15.94 | 555 | 15.79 | 561 |
| 80 | 0 | 0 | 0 | 0.44 | 16.14 | 549 | 15.99 | 554 |
| 90 | 0 | 0 | 0 | 0.44 | 16.34 | 542 | 16.18 | 547 |
| 100 | 0 | 0 | 0 | 0.44 | 16.52 | 536 | 16.37 | 541 |
| 110 | 0 | 0 | 0 | 0.44 | 16.64 | 532 | 16.56 | 535 |
| 120 | 0 | 0 | 0 | 0.44 | 16.77 | 528 | 16.74 | 529 |
| 130 | 0 | 0 | 0 | 0.44 | 16.9 | 525 | 16.9 | 525 |
| 167 | 0 | 0 | 0 | 0.44 | 17.35 | 511 | 17.35 | 511 |
| 212 | 0 | 0 | 0 | 0.44 | 17.88 | 496 | 17.88 | 496 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 25.18 | 1497 | 25.13 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 24.02 | 578 | 23.9 | 581 |
| 30 | 0 | 0 | 0 | 0.44 | 24.23 | 573 | 24.1 | 576 |
| 40 | 0 | 0 | 0 | 0.44 | 24.44 | 568 | 24.3 | 571 |
| 50 | 0 | 0 | 0 | 0.44 | 24.64 | 563 | 24.5 | 567 |
| 60 | 0 | 0 | 0 | 0.44 | 24.85 | 559 | 24.7 | 562 |
| 70 | 0 | 0 | 0 | 0.44 | 25.05 | 554 | 24.9 | 558 |
| 80 | 0 | 0 | 0 | 0.44 | 25.25 | 550 | 25.09 | 554 |
| 90 | 0 | 0 | 0 | 0.44 | 25.44 | 546 | 25.29 | 549 |
| 100 | 0 | 0 | 0 | 0.44 | 25.64 | 542 | 25.48 | 545 |
| 110 | 0 | 0 | 0 | 0.44 | 25.76 | 539 | 25.67 | 541 |
| 120 | 0 | 0 | 0 | 0.44 | 25.89 | 537 | 25.86 | 537 |
| 130 | 0 | 0 | 0 | 0.44 | 26.02 | 534 | 26.02 | 534 |
| 167 | 0 | 0 | 0 | 0.44 | 26.49 | 525 | 26.49 | 525 |
| 212 | 0 | 0 | 0 | 0.44 | 27.05 | 514 | 27.05 | 514 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 |
| 125.00 | 0-6 | 0-7 | 0-9 | 0-10 | 1-1 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-3 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-1 |
| 175.00 | 1-0 | 1-2 | 1-5 | 1-8 | 2-1 | 2-6 | 3-0 | 3-5 | 3-10 | 4-2 |
| 200.00 | 1-4 | 1-6 | 1-10 | 2-3 | 2-9 | 3-4 | 3-11 | 4-5 | 5-0 | 5-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-3 | 1-3 | 1-4 |
| 125.00 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 1-11 | 2-0 | 2-2 |
| 150.00 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-2 | 2-6 | 2-9 | 2-11 | 3-1 |
| 175.00 | 1-0 | 1-3 | 1-7 | 2-0 | 2-6 | 3-0 | 3-5 | 3-9 | 3-11 | 4-2 |
| 200.00 | 1-4 | 1-8 | 2-1 | 2-8 | 3-3 | 3-11 | 4-6 | 4-10 | 5-2 | 5-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS



OH810.211

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 175.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 |
| 200.00 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 |
| 225.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 |
| 250.00 | 4-3 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 125.00 | 1-1 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 |
| 150.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-6 |
| 175.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-5 |
| 200.00 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 |
| 225.00 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 |
| 250.00 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-5 | 6-8 | 6-11 | 7-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 |
| 175.00 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 |
| 200.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 225.00 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 |
| 250.00 | 5-5 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 |
| 275.00 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 |
| 300.00 | 7-9 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 |
| 325.00 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 |
| 350.00 | 10-7 | 10-10 | 11-1 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 |
| 375.00 | 12-1 | 12-5 | 12-9 | 13-1 | 13-5 | 13-8 | 14-0 | 14-4 | 14-7 | 14-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 |
| 175.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 |
| 200.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 |
| 225.00 | 4-5 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 |
| 250.00 | 5-6 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 |
| 275.00 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 7-11 | 8-1 |
| 300.00 | 7-10 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 | 9-1 | 9-4 | 9-6 | 9-7 |
| 325.00 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 |
| 350.00 | 10-9 | 11-0 | 11-4 | 11-7 | 11-10 | 12-2 | 12-5 | 12-8 | 12-11 | 13-1 |
| 375.00 | 12-4 | 12-8 | 13-0 | 13-4 | 13-7 | 13-11 | 14-3 | 14-6 | 14-10 | 15-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 |
| 225.00 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 |
| 250.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 275.00 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-10 |
| 300.00 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 | 9-4 |
| 325.00 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 |
| 350.00 | 11-4 | 11-6 | 11-8 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 |
| 375.00 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 |
| 400.00 | 14-10 | 15-0 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 | 16-2 | 16-4 | 16-7 |
| 425.00 | 16-8 | 16-11 | 17-2 | 17-5 | 17-7 | 17-10 | 18-1 | 18-3 | 18-6 | 18-8 |
| 450.00 | 18-9 | 19-0 | 19-3 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 |
| 475.00 | 20-10 | 21-2 | 21-5 | 21-9 | 22-0 | 22-3 | 22-7 | 22-10 | 23-1 | 23-4 |
| 500.00 | 23-2 | 23-5 | 23-9 | 24-1 | 24-5 | 24-8 | 25-0 | 25-4 | 25-7 | 25-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 |
| 225.00 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 |
| 250.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 |
| 275.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 | 7-10 |
| 300.00 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 |
| 325.00 | 9-10 | 10-0 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 |
| 350.00 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 |
| 375.00 | 13-1 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 |
| 400.00 | 14-11 | 15-2 | 15-4 | 15-6 | 15-9 | 15-11 | 16-2 | 16-4 | 16-6 | 16-8 |
| 425.00 | 16-10 | 17-1 | 17-4 | 17-7 | 17-9 | 18-0 | 18-3 | 18-5 | 18-8 | 18-10 |
| 450.00 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 | 20-5 | 20-8 | 20-11 | 21-1 |
| 475.00 | 21-1 | 21-4 | 21-8 | 21-11 | 22-3 | 22-6 | 22-9 | 23-1 | 23-4 | 23-6 |
| 500.00 | 23-4 | 23-8 | 24-0 | 24-4 | 24-8 | 24-11 | 25-3 | 25-7 | 25-10 | 26-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 |
| 275.00 | 7-3 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 |
| 300.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 |
| 325.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 |
| 350.00 | 11-8 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-6 | 12-7 |
| 375.00 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 | 14-4 | 14-5 |
| 400.00 | 15-3 | 15-5 | 15-6 | 15-8 | 15-9 | 15-11 | 16-0 | 16-2 | 16-3 | 16-5 |
| 425.00 | 17-3 | 17-5 | 17-7 | 17-8 | 17-10 | 18-0 | 18-1 | 18-3 | 18-5 | 18-6 |
| 450.00 | 19-4 | 19-6 | 19-8 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-7 | 20-9 |
| 475.00 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 | 22-6 | 22-8 | 22-10 | 23-0 | 23-2 |
| 500.00 | 23-11 | 24-1 | 24-4 | 24-6 | 24-8 | 24-11 | 25-1 | 25-3 | 25-6 | 25-8 |
| 525.00 | 26-4 | 26-7 | 26-10 | 27-0 | 27-3 | 27-5 | 27-8 | 27-11 | 28-1 | 28-4 |
| 550.00 | 28-11 | 29-2 | 29-5 | 29-8 | 29-11 | 30-2 | 30-5 | 30-7 | 30-10 | 31-1 |
| 575.00 | 31-8 | 31-11 | 32-2 | 32-5 | 32-8 | 33-0 | 33-3 | 33-6 | 33-9 | 34-0 |
| 600.00 | 34-6 | 34-9 | 35-1 | 35-4 | 35-7 | 35-11 | 36-2 | 36-6 | 36-9 | 37-0 |
| 625.00 | 37-5 | 37-9 | 38-1 | 38-4 | 38-8 | 39-0 | 39-3 | 39-7 | 39-11 | 40-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 |
| 275.00 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 |
| 300.00 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 |
| 325.00 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 |
| 350.00 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 |
| 375.00 | 13-6 | 13-7 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-5 | 14-6 |
| 400.00 | 15-4 | 15-6 | 15-7 | 15-9 | 15-11 | 16-0 | 16-2 | 16-3 | 16-5 | 16-6 |
| 425.00 | 17-4 | 17-6 | 17-8 | 17-9 | 17-11 | 18-1 | 18-3 | 18-4 | 18-6 | 18-7 |
| 450.00 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-10 |
| 475.00 | 21-8 | 21-10 | 22-1 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-2 | 23-3 |
| 500.00 | 24-0 | 24-3 | 24-5 | 24-8 | 24-10 | 25-1 | 25-3 | 25-5 | 25-8 | 25-9 |
| 525.00 | 26-6 | 26-9 | 26-11 | 27-2 | 27-5 | 27-7 | 27-10 | 28-1 | 28-3 | 28-5 |
| 550.00 | 29-1 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 | 31-0 | 31-2 |
| 575.00 | 31-10 | 32-1 | 32-4 | 32-7 | 32-11 | 33-2 | 33-5 | 33-8 | 33-11 | 34-1 |
| 600.00 | 34-8 | 34-11 | 35-3 | 35-6 | 35-10 | 36-1 | 36-5 | 36-8 | 37-0 | 37-2 |
| 625.00 | 37-7 | 37-11 | 38-3 | 38-7 | 38-11 | 39-3 | 39-6 | 39-10 | 40-2 | 40-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 0.84 | 1771 | 0.75 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.24 | 2265 | 0.22 | 2459 |
| 30 | 0 | 0 | 0 | 0.44 | 0.29 | 1928 | 0.25 | 2198 |
| 40 | 0 | 0 | 0 | 0.44 | 0.34 | 1604 | 0.28 | 1934 |
| 50 | 0 | 0 | 0 | 0.44 | 0.42 | 1301 | 0.33 | 1672 |
| 60 | 0 | 0 | 0 | 0.44 | 0.53 | 1036 | 0.39 | 1416 |
| 70 | 0 | 0 | 0 | 0.44 | 0.67 | 824 | 0.47 | 1175 |
| 80 | 0 | 0 | 0 | 0.44 | 0.82 | 670 | 0.57 | 960 |
| 90 | 0 | 0 | 0 | 0.44 | 0.91 | 603 | 0.7 | 784 |
| 100 | 0 | 0 | 0 | 0.44 | 0.98 | 559 | 0.84 | 651 |
| 110 | 0 | 0 | 0 | 0.44 | 1.06 | 520 | 0.99 | 555 |
| 120 | 0 | 0 | 0 | 0.44 | 1.13 | 486 | 1.13 | 487 |
| 130 | 0 | 0 | 0 | 0.44 | 1.21 | 456 | 1.21 | 456 |
| 167 | 0 | 0 | 0 | 0.44 | 1.48 | 371 | 1.48 | 371 |
| 212 | 0 | 0 | 0 | 0.44 | 1.79 | 307 | 1.79 | 307 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 3.1 | 1929 | 2.99 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 1.56 | 1412 | 1.4 | 1574 |
| 30 | 0 | 0 | 0 | 0.44 | 1.79 | 1229 | 1.58 | 1390 |
| 40 | 0 | 0 | 0 | 0.44 | 2.04 | 1080 | 1.79 | 1230 |
| 50 | 0 | 0 | 0 | 0.44 | 2.29 | 962 | 2.01 | 1095 |
| 60 | 0 | 0 | 0 | 0.44 | 2.53 | 869 | 2.24 | 983 |
| 70 | 0 | 0 | 0 | 0.44 | 2.77 | 794 | 2.47 | 892 |
| 80 | 0 | 0 | 0 | 0.44 | 3.01 | 733 | 2.7 | 817 |
| 90 | 0 | 0 | 0 | 0.44 | 3.23 | 682 | 2.92 | 755 |
| 100 | 0 | 0 | 0 | 0.44 | 3.41 | 646 | 3.13 | 703 |
| 110 | 0 | 0 | 0 | 0.44 | 3.52 | 625 | 3.34 | 659 |
| 120 | 0 | 0 | 0 | 0.44 | 3.64 | 605 | 3.54 | 622 |
| 130 | 0 | 0 | 0 | 0.44 | 3.76 | 586 | 3.74 | 590 |
| 167 | 0 | 0 | 0 | 0.44 | 4.17 | 528 | 4.17 | 528 |
| 212 | 0 | 0 | 0 | 0.44 | 4.65 | 474 | 4.65 | 474 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 6.83 | 1970 | 6.73 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 5.07 | 978 | 4.8 | 1032 |
| 30 | 0 | 0 | 0 | 0.44 | 5.36 | 924 | 5.08 | 975 |
| 40 | 0 | 0 | 0 | 0.44 | 5.65 | 877 | 5.36 | 924 |
| 50 | 0 | 0 | 0 | 0.44 | 5.93 | 836 | 5.63 | 880 |
| 60 | 0 | 0 | 0 | 0.44 | 6.2 | 800 | 5.9 | 840 |
| 70 | 0 | 0 | 0 | 0.44 | 6.46 | 768 | 6.16 | 805 |
| 80 | 0 | 0 | 0 | 0.44 | 6.71 | 739 | 6.41 | 774 |
| 90 | 0 | 0 | 0 | 0.44 | 6.96 | 713 | 6.65 | 745 |
| 100 | 0 | 0 | 0 | 0.44 | 7.2 | 689 | 6.89 | 720 |
| 110 | 0 | 0 | 0 | 0.44 | 7.38 | 672 | 7.12 | 696 |
| 120 | 0 | 0 | 0 | 0.44 | 7.52 | 660 | 7.35 | 675 |
| 130 | 0 | 0 | 0 | 0.44 | 7.66 | 648 | 7.57 | 655 |
| 167 | 0 | 0 | 0 | 0.44 | 8.16 | 608 | 8.16 | 608 |
| 212 | 0 | 0 | 0 | 0.44 | 8.74 | 568 | 8.74 | 568 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 12.08 | 1984 | 11.98 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 10.3 | 857 | 10.04 | 879 |
| 30 | 0 | 0 | 0 | 0.44 | 10.59 | 833 | 10.32 | 855 |
| 40 | 0 | 0 | 0 | 0.44 | 10.87 | 812 | 10.59 | 833 |
| 50 | 0 | 0 | 0 | 0.44 | 11.15 | 792 | 10.87 | 812 |
| 60 | 0 | 0 | 0 | 0.44 | 11.42 | 773 | 11.13 | 793 |
| 70 | 0 | 0 | 0 | 0.44 | 11.69 | 755 | 11.39 | 775 |
| 80 | 0 | 0 | 0 | 0.44 | 11.95 | 739 | 11.65 | 758 |
| 90 | 0 | 0 | 0 | 0.44 | 12.21 | 724 | 11.9 | 742 |
| 100 | 0 | 0 | 0 | 0.44 | 12.46 | 709 | 12.15 | 727 |
| 110 | 0 | 0 | 0 | 0.44 | 12.69 | 696 | 12.4 | 713 |
| 120 | 0 | 0 | 0 | 0.44 | 12.85 | 688 | 12.64 | 699 |
| 130 | 0 | 0 | 0 | 0.44 | 13 | 680 | 12.87 | 686 |
| 167 | 0 | 0 | 0 | 0.44 | 13.55 | 652 | 13.55 | 652 |
| 212 | 0 | 0 | 0 | 0.44 | 14.2 | 623 | 14.2 | 623 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 18.86 | 1990 | 18.76 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 17.08 | 809 | 16.82 | 821 |
| 30 | 0 | 0 | 0 | 0.44 | 17.36 | 796 | 17.1 | 808 |
| 40 | 0 | 0 | 0 | 0.44 | 17.64 | 783 | 17.37 | 795 |
| 50 | 0 | 0 | 0 | 0.44 | 17.92 | 771 | 17.64 | 783 |
| 60 | 0 | 0 | 0 | 0.44 | 18.19 | 760 | 17.9 | 772 |
| 70 | 0 | 0 | 0 | 0.44 | 18.46 | 749 | 18.17 | 761 |
| 80 | 0 | 0 | 0 | 0.44 | 18.72 | 739 | 18.42 | 750 |
| 90 | 0 | 0 | 0 | 0.44 | 18.98 | 729 | 18.68 | 740 |
| 100 | 0 | 0 | 0 | 0.44 | 19.24 | 719 | 18.93 | 730 |
| 110 | 0 | 0 | 0 | 0.44 | 19.49 | 710 | 19.18 | 721 |
| 120 | 0 | 0 | 0 | 0.44 | 19.67 | 704 | 19.43 | 712 |
| 130 | 0 | 0 | 0 | 0.44 | 19.83 | 698 | 19.68 | 703 |
| 167 | 0 | 0 | 0 | 0.44 | 20.41 | 678 | 20.41 | 678 |
| 212 | 0 | 0 | 0 | 0.44 | 21.11 | 656 | 21.11 | 656 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-1 | 1-3 | 1-7 | 1-11 | 2-3 |
| 175.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-7 | 3-0 |
| 200.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-4 | 2-10 | 3-5 | 4-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-8 | 0-10 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-1 | 2-3 | 2-5 |
| 175.00 | 0-9 | 0-10 | 1-1 | 1-4 | 1-8 | 2-1 | 2-6 | 2-10 | 3-0 | 3-3 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-8 | 2-1 | 2-8 | 3-3 | 3-8 | 3-11 | 4-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 175.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 200.00 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 |
| 225.00 | 1-9 | 2-0 | 2-3 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 |
| 250.00 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-10 | 4-3 | 4-7 | 4-11 | 5-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-2 | 1-4 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-7 | 2-8 |
| 200.00 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-6 |
| 225.00 | 2-0 | 2-3 | 2-7 | 2-11 | 3-2 | 3-6 | 3-10 | 4-1 | 4-4 | 4-6 |
| 250.00 | 2-5 | 2-10 | 3-2 | 3-7 | 4-0 | 4-4 | 4-8 | 5-1 | 5-4 | 5-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.220

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 |
| 175.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 |
| 225.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 |
| 250.00 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 275.00 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-9 | 6-0 |
| 300.00 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-1 |
| 325.00 | 5-8 | 6-0 | 6-4 | 6-7 | 6-11 | 7-3 | 7-6 | 7-10 | 8-1 | 8-4 |
| 350.00 | 6-6 | 6-11 | 7-4 | 7-8 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-8 |
| 375.00 | 7-6 | 7-11 | 8-5 | 8-10 | 9-3 | 9-7 | 10-0 | 10-5 | 10-9 | 11-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 |
| 175.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 200.00 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 |
| 225.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 |
| 250.00 | 3-6 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 |
| 275.00 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-2 |
| 300.00 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 | 6-9 | 6-11 | 7-2 | 7-5 |
| 325.00 | 5-11 | 6-4 | 6-8 | 6-11 | 7-3 | 7-7 | 7-11 | 8-2 | 8-5 | 8-8 |
| 350.00 | 6-11 | 7-4 | 7-8 | 8-1 | 8-5 | 8-10 | 9-2 | 9-6 | 9-10 | 10-1 |
| 375.00 | 7-11 | 8-5 | 8-10 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 | 11-3 | 11-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 |
| 225.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 250.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 |
| 275.00 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 |
| 300.00 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 |
| 325.00 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |
| 350.00 | 7-8 | 7-11 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 | 9-1 | 9-4 | 9-6 |
| 375.00 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 | 10-0 | 10-3 | 10-6 | 10-8 | 10-11 |
| 400.00 | 10-0 | 10-4 | 10-7 | 10-10 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 |
| 425.00 | 11-4 | 11-8 | 12-0 | 12-3 | 12-7 | 12-10 | 13-2 | 13-5 | 13-9 | 14-0 |
| 450.00 | 12-8 | 13-1 | 13-5 | 13-9 | 14-1 | 14-5 | 14-9 | 15-1 | 15-5 | 15-8 |
| 475.00 | 14-2 | 14-7 | 14-11 | 15-4 | 15-8 | 16-1 | 16-5 | 16-10 | 17-2 | 17-6 |
| 500.00 | 15-8 | 16-2 | 16-7 | 17-0 | 17-5 | 17-10 | 18-3 | 18-7 | 19-0 | 19-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 |
| 225.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 250.00 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 275.00 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 |
| 300.00 | 5-10 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-2 |
| 325.00 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 |
| 350.00 | 7-11 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-9 |
| 375.00 | 9-1 | 9-4 | 9-7 | 9-10 | 10-0 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 |
| 400.00 | 10-4 | 10-7 | 10-10 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 |
| 425.00 | 11-8 | 11-11 | 12-3 | 12-7 | 12-11 | 13-2 | 13-6 | 13-9 | 14-1 | 14-4 |
| 450.00 | 13-0 | 13-5 | 13-9 | 14-1 | 14-6 | 14-10 | 15-2 | 15-5 | 15-9 | 16-1 |
| 475.00 | 14-6 | 14-11 | 15-4 | 15-9 | 16-1 | 16-6 | 16-10 | 17-3 | 17-7 | 17-11 |
| 500.00 | 16-1 | 16-7 | 17-0 | 17-5 | 17-10 | 18-3 | 18-8 | 19-1 | 19-6 | 19-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 |
| 275.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 300.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 |
| 325.00 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 |
| 350.00 | 8-3 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 |
| 375.00 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-9 |
| 400.00 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 |
| 425.00 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-10 |
| 450.00 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 | 14-9 | 14-11 | 15-2 | 15-4 | 15-6 |
| 475.00 | 15-2 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 16-10 | 17-1 | 17-4 |
| 500.00 | 16-10 | 17-1 | 17-4 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 |
| 525.00 | 18-7 | 18-10 | 19-2 | 19-5 | 19-9 | 20-0 | 20-4 | 20-7 | 20-11 | 21-2 |
| 550.00 | 20-4 | 20-8 | 21-0 | 21-4 | 21-8 | 22-0 | 22-4 | 22-7 | 22-11 | 23-3 |
| 575.00 | 22-3 | 22-7 | 23-0 | 23-4 | 23-8 | 24-0 | 24-5 | 24-9 | 25-1 | 25-5 |
| 600.00 | 24-3 | 24-8 | 25-0 | 25-5 | 25-10 | 26-2 | 26-7 | 26-11 | 27-3 | 27-8 |
| 625.00 | 26-4 | 26-9 | 27-2 | 27-7 | 28-0 | 28-5 | 28-10 | 29-3 | 29-7 | 30-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 300.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 |
| 325.00 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 |
| 350.00 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 |
| 375.00 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-10 | 10-11 |
| 400.00 | 10-11 | 11-1 | 11-3 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 |
| 425.00 | 12-4 | 12-6 | 12-9 | 12-11 | 13-2 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 |
| 450.00 | 13-10 | 14-1 | 14-3 | 14-6 | 14-9 | 14-11 | 15-2 | 15-4 | 15-7 | 15-9 |
| 475.00 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 | 17-4 | 17-7 |
| 500.00 | 17-1 | 17-4 | 17-8 | 17-11 | 18-2 | 18-5 | 18-9 | 19-0 | 19-3 | 19-6 |
| 525.00 | 18-10 | 19-2 | 19-5 | 19-9 | 20-1 | 20-4 | 20-8 | 20-11 | 21-3 | 21-6 |
| 550.00 | 20-8 | 21-0 | 21-4 | 21-8 | 22-0 | 22-4 | 22-8 | 23-0 | 23-3 | 23-7 |
| 575.00 | 22-7 | 23-0 | 23-4 | 23-8 | 24-1 | 24-5 | 24-9 | 25-1 | 25-6 | 25-10 |
| 600.00 | 24-7 | 25-0 | 25-5 | 25-10 | 26-3 | 26-7 | 27-0 | 27-4 | 27-9 | 28-1 |
| 625.00 | 26-9 | 27-2 | 27-7 | 28-0 | 28-5 | 28-10 | 29-3 | 29-8 | 30-1 | 30-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 0.72 | 2076 | 0.6 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 0.2 | 2725 | 0.18 | 3066 |
| 30 | 0 | 0 | 0 | 0.44 | 0.23 | 2379 | 0.2 | 2811 |
| 40 | 0 | 0 | 0 | 0.44 | 0.27 | 2040 | 0.22 | 2551 |
| 50 | 0 | 0 | 0 | 0.44 | 0.32 | 1710 | 0.24 | 2288 |
| 60 | 0 | 0 | 0 | 0.44 | 0.39 | 1399 | 0.27 | 2023 |
| 70 | 0 | 0 | 0 | 0.44 | 0.49 | 1119 | 0.31 | 1758 |
| 80 | 0 | 0 | 0 | 0.44 | 0.62 | 888 | 0.37 | 1497 |
| 90 | 0 | 0 | 0 | 0.44 | 0.71 | 775 | 0.44 | 1248 |
| 100 | 0 | 0 | 0 | 0.44 | 0.77 | 715 | 0.54 | 1022 |
| 110 | 0 | 0 | 0 | 0.44 | 0.83 | 661 | 0.66 | 832 |
| 120 | 0 | 0 | 0 | 0.44 | 0.9 | 611 | 0.8 | 686 |
| 130 | 0 | 0 | 0 | 0.44 | 0.97 | 567 | 0.95 | 580 |
| 167 | 0 | 0 | 0 | 0.44 | 1.25 | 441 | 1.23 | 446 |
| 212 | 0 | 0 | 0 | 0.44 | 1.58 | 349 | 1.57 | 352 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 2.58 | 2313 | 2.39 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 1.03 | 2142 | 0.9 | 2447 |
| 30 | 0 | 0 | 0 | 0.44 | 1.18 | 1861 | 1 | 2209 |
| 40 | 0 | 0 | 0 | 0.44 | 1.37 | 1609 | 1.11 | 1977 |
| 50 | 0 | 0 | 0 | 0.44 | 1.58 | 1392 | 1.25 | 1757 |
| 60 | 0 | 0 | 0 | 0.44 | 1.82 | 1212 | 1.42 | 1552 |
| 70 | 0 | 0 | 0 | 0.44 | 2.06 | 1067 | 1.61 | 1369 |
| 80 | 0 | 0 | 0 | 0.44 | 2.31 | 952 | 1.82 | 1211 |
| 90 | 0 | 0 | 0 | 0.44 | 2.56 | 860 | 2.04 | 1078 |
| 100 | 0 | 0 | 0 | 0.44 | 2.75 | 799 | 2.27 | 969 |
| 110 | 0 | 0 | 0 | 0.44 | 2.87 | 766 | 2.5 | 879 |
| 120 | 0 | 0 | 0 | 0.44 | 2.99 | 735 | 2.73 | 806 |
| 130 | 0 | 0 | 0 | 0.44 | 3.11 | 707 | 2.95 | 745 |
| 167 | 0 | 0 | 0 | 0.44 | 3.55 | 620 | 3.54 | 622 |
| 212 | 0 | 0 | 0 | 0.44 | 4.06 | 542 | 4.05 | 544 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 5.57 | 2417 | 5.38 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 3.29 | 1506 | 2.91 | 1700 |
| 30 | 0 | 0 | 0 | 0.44 | 3.61 | 1370 | 3.19 | 1553 |
| 40 | 0 | 0 | 0 | 0.44 | 3.94 | 1257 | 3.48 | 1424 |
| 50 | 0 | 0 | 0 | 0.44 | 4.27 | 1161 | 3.77 | 1313 |
| 60 | 0 | 0 | 0 | 0.44 | 4.58 | 1081 | 4.07 | 1216 |
| 70 | 0 | 0 | 0 | 0.44 | 4.89 | 1013 | 4.37 | 1133 |
| 80 | 0 | 0 | 0 | 0.44 | 5.19 | 954 | 4.67 | 1062 |
| 90 | 0 | 0 | 0 | 0.44 | 5.49 | 903 | 4.96 | 1000 |
| 100 | 0 | 0 | 0 | 0.44 | 5.77 | 859 | 5.24 | 946 |
| 110 | 0 | 0 | 0 | 0.44 | 6.02 | 824 | 5.52 | 899 |
| 120 | 0 | 0 | 0 | 0.44 | 6.17 | 804 | 5.79 | 857 |
| 130 | 0 | 0 | 0 | 0.44 | 6.32 | 785 | 6.05 | 820 |
| 167 | 0 | 0 | 0 | 0.44 | 6.87 | 722 | 6.86 | 723 |
| 212 | 0 | 0 | 0 | 0.44 | 7.51 | 660 | 7.5 | 661 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 9.75 | 2456 | 9.57 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 7.28 | 1210 | 6.81 | 1293 |
| 30 | 0 | 0 | 0 | 0.44 | 7.65 | 1153 | 7.16 | 1230 |
| 40 | 0 | 0 | 0 | 0.44 | 8 | 1102 | 7.5 | 1174 |
| 50 | 0 | 0 | 0 | 0.44 | 8.34 | 1056 | 7.84 | 1124 |
| 60 | 0 | 0 | 0 | 0.44 | 8.68 | 1016 | 8.17 | 1079 |
| 70 | 0 | 0 | 0 | 0.44 | 9.01 | 979 | 8.49 | 1038 |
| 80 | 0 | 0 | 0 | 0.44 | 9.33 | 946 | 8.81 | 1001 |
| 90 | 0 | 0 | 0 | 0.44 | 9.64 | 915 | 9.12 | 967 |
| 100 | 0 | 0 | 0 | 0.44 | 9.94 | 887 | 9.42 | 936 |
| 110 | 0 | 0 | 0 | 0.44 | 10.24 | 862 | 9.72 | 907 |
| 120 | 0 | 0 | 0 | 0.44 | 10.47 | 843 | 10.01 | 881 |
| 130 | 0 | 0 | 0 | 0.44 | 10.65 | 829 | 10.3 | 857 |
| 167 | 0 | 0 | 0 | 0.44 | 11.27 | 783 | 11.27 | 784 |
| 212 | 0 | 0 | 0 | 0.44 | 12.01 | 735 | 12 | 736 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 15.14 | 2473 | 14.98 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 12.64 | 1091 | 12.17 | 1132 |
| 30 | 0 | 0 | 0 | 0.44 | 13 | 1061 | 12.53 | 1100 |
| 40 | 0 | 0 | 0 | 0.44 | 13.35 | 1033 | 12.87 | 1071 |
| 50 | 0 | 0 | 0 | 0.44 | 13.7 | 1007 | 13.21 | 1044 |
| 60 | 0 | 0 | 0 | 0.44 | 14.04 | 983 | 13.54 | 1018 |
| 70 | 0 | 0 | 0 | 0.44 | 14.37 | 960 | 13.87 | 994 |
| 80 | 0 | 0 | 0 | 0.44 | 14.7 | 939 | 14.19 | 972 |
| 90 | 0 | 0 | 0 | 0.44 | 15.02 | 919 | 14.51 | 951 |
| 100 | 0 | 0 | 0 | 0.44 | 15.34 | 900 | 14.82 | 931 |
| 110 | 0 | 0 | 0 | 0.44 | 15.65 | 882 | 15.13 | 912 |
| 120 | 0 | 0 | 0 | 0.44 | 15.95 | 866 | 15.43 | 894 |
| 130 | 0 | 0 | 0 | 0.44 | 16.13 | 856 | 15.73 | 877 |
| 167 | 0 | 0 | 0 | 0.44 | 16.81 | 821 | 16.8 | 822 |
| 212 | 0 | 0 | 0 | 0.44 | 17.62 | 784 | 17.61 | 785 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-2 | 1-4 | 1-8 | 2-0 |
| 200.00 | 0-9 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-9 | 2-2 | 2-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 1-0 | 1-1 | 1-2 | 1-4 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-5 | 1-7 | 1-9 | 1-10 |
| 175.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-11 | 2-2 | 2-4 | 2-7 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-7 | 2-0 | 2-6 | 2-10 | 3-1 | 3-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 |
| 175.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 |
| 225.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-4 | 2-7 | 2-11 | 3-2 |
| 250.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-3 | 2-6 | 2-10 | 3-2 | 3-7 | 3-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-7 |
| 175.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 2-10 |
| 225.00 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-7 | 2-11 | 3-3 | 3-6 | 3-8 |
| 250.00 | 1-7 | 1-10 | 2-2 | 2-6 | 2-10 | 3-3 | 3-7 | 4-0 | 4-4 | 4-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 |
| 200.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 |
| 225.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 250.00 | 2-0 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 |
| 275.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 |
| 300.00 | 2-11 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 |
| 325.00 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 |
| 350.00 | 4-0 | 4-4 | 4-9 | 5-2 | 5-7 | 5-11 | 6-4 | 6-9 | 7-2 | 7-6 |
| 375.00 | 4-7 | 5-0 | 5-5 | 5-11 | 6-4 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 |
| 175.00 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 |
| 200.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 |
| 225.00 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 |
| 250.00 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 |
| 275.00 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 |
| 300.00 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 | 5-2 | 5-6 | 5-9 | 6-0 |
| 325.00 | 3-10 | 4-3 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 |
| 350.00 | 4-6 | 4-11 | 5-4 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 | 7-10 | 8-2 |
| 375.00 | 5-2 | 5-8 | 6-2 | 6-8 | 7-2 | 7-8 | 8-1 | 8-7 | 9-0 | 9-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 225.00 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 |
| 250.00 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 |
| 275.00 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 |
| 300.00 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 |
| 325.00 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 |
| 350.00 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-5 |
| 375.00 | 6-0 | 6-4 | 6-7 | 6-11 | 7-2 | 7-6 | 7-9 | 8-0 | 8-3 | 8-7 |
| 400.00 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 | 8-6 | 8-10 | 9-1 | 9-5 | 9-9 |
| 425.00 | 7-8 | 8-1 | 8-6 | 8-10 | 9-3 | 9-7 | 9-11 | 10-4 | 10-8 | 11-0 |
| 450.00 | 8-7 | 9-1 | 9-6 | 9-11 | 10-4 | 10-9 | 11-2 | 11-7 | 11-11 | 12-4 |
| 475.00 | 9-7 | 10-1 | 10-7 | 11-1 | 11-6 | 12-0 | 12-5 | 12-10 | 13-4 | 13-9 |
| 500.00 | 10-8 | 11-2 | 11-9 | 12-3 | 12-9 | 13-3 | 13-9 | 14-3 | 14-9 | 15-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 225.00 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 |
| 250.00 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 |
| 275.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 |
| 300.00 | 4-1 | 4-4 | 4-6 | 4-8 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 |
| 325.00 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 |
| 350.00 | 5-7 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 |
| 375.00 | 6-5 | 6-9 | 7-0 | 7-4 | 7-8 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 |
| 400.00 | 7-3 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 |
| 425.00 | 8-3 | 8-8 | 9-0 | 9-5 | 9-10 | 10-2 | 10-6 | 10-11 | 11-3 | 11-7 |
| 450.00 | 9-3 | 9-8 | 10-2 | 10-7 | 11-0 | 11-5 | 11-10 | 12-2 | 12-7 | 13-0 |
| 475.00 | 10-3 | 10-9 | 11-3 | 11-9 | 12-3 | 12-8 | 13-2 | 13-7 | 14-0 | 14-5 |
| 500.00 | 11-5 | 11-11 | 12-6 | 13-1 | 13-7 | 14-1 | 14-7 | 15-1 | 15-7 | 16-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 |
| 275.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 |
| 300.00 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 |
| 325.00 | 5-2 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 |
| 350.00 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-5 |
| 375.00 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 |
| 400.00 | 7-9 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 | 9-6 | 9-8 |
| 425.00 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 | 10-0 | 10-3 | 10-6 | 10-8 | 10-11 |
| 450.00 | 9-10 | 10-2 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 |
| 475.00 | 11-0 | 11-4 | 11-7 | 11-11 | 12-3 | 12-6 | 12-10 | 13-1 | 13-5 | 13-8 |
| 500.00 | 12-2 | 12-6 | 12-10 | 13-3 | 13-7 | 13-10 | 14-2 | 14-6 | 14-10 | 15-2 |
| 525.00 | 13-5 | 13-10 | 14-2 | 14-7 | 14-11 | 15-4 | 15-8 | 16-0 | 16-4 | 16-8 |
| 550.00 | 14-9 | 15-2 | 15-7 | 16-0 | 16-5 | 16-9 | 17-2 | 17-7 | 17-11 | 18-4 |
| 575.00 | 16-1 | 16-7 | 17-0 | 17-6 | 17-11 | 18-4 | 18-9 | 19-2 | 19-7 | 20-0 |
| 600.00 | 17-6 | 18-1 | 18-6 | 19-0 | 19-6 | 20-0 | 20-5 | 20-11 | 21-4 | 21-10 |
| 625.00 | 19-0 | 19-7 | 20-1 | 20-8 | 21-2 | 21-8 | 22-2 | 22-8 | 23-2 | 23-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 275.00 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 |
| 300.00 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 |
| 325.00 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 |
| 350.00 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 |
| 375.00 | 7-1 | 7-4 | 7-6 | 7-8 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-10 |
| 400.00 | 8-1 | 8-4 | 8-7 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-10 | 10-0 |
| 425.00 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 | 11-1 | 11-4 |
| 450.00 | 10-3 | 10-6 | 10-10 | 11-1 | 11-4 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 |
| 475.00 | 11-5 | 11-9 | 12-1 | 12-4 | 12-8 | 13-0 | 13-3 | 13-7 | 13-10 | 14-1 |
| 500.00 | 12-8 | 13-0 | 13-4 | 13-8 | 14-0 | 14-4 | 14-8 | 15-0 | 15-4 | 15-8 |
| 525.00 | 13-11 | 14-4 | 14-9 | 15-1 | 15-6 | 15-10 | 16-2 | 16-7 | 16-11 | 17-3 |
| 550.00 | 15-4 | 15-9 | 16-2 | 16-7 | 17-0 | 17-5 | 17-9 | 18-2 | 18-7 | 18-11 |
| 575.00 | 16-9 | 17-2 | 17-8 | 18-1 | 18-7 | 19-0 | 19-5 | 19-10 | 20-3 | 20-8 |
| 600.00 | 18-2 | 18-9 | 19-3 | 19-9 | 20-3 | 20-8 | 21-2 | 21-8 | 22-1 | 22-7 |
| 625.00 | 19-9 | 20-4 | 20-11 | 21-5 | 21-11 | 22-6 | 23-0 | 23-6 | 24-0 | 24-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 0.63 | 2374 | 0.5 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.18 | 3121 | 0.15 | 3610 |
| 30 | 0 | 0 | 0 | 0.44 | 0.2 | 2772 | 0.16 | 3364 |
| 40 | 0 | 0 | 0 | 0.44 | 0.23 | 2426 | 0.18 | 3112 |
| 50 | 0 | 0 | 0 | 0.44 | 0.26 | 2086 | 0.19 | 2856 |
| 60 | 0 | 0 | 0 | 0.44 | 0.31 | 1754 | 0.21 | 2595 |
| 70 | 0 | 0 | 0 | 0.44 | 0.38 | 1440 | 0.24 | 2330 |
| 80 | 0 | 0 | 0 | 0.44 | 0.48 | 1155 | 0.27 | 2063 |
| 90 | 0 | 0 | 0 | 0.44 | 0.57 | 966 | 0.31 | 1796 |
| 100 | 0 | 0 | 0 | 0.44 | 0.61 | 895 | 0.36 | 1532 |
| 110 | 0 | 0 | 0 | 0.44 | 0.66 | 829 | 0.43 | 1279 |
| 120 | 0 | 0 | 0 | 0.44 | 0.72 | 766 | 0.52 | 1048 |
| 130 | 0 | 0 | 0 | 0.44 | 0.78 | 707 | 0.65 | 852 |
| 167 | 0 | 0 | 0 | 0.44 | 1.03 | 533 | 1 | 549 |
| 212 | 0 | 0 | 0 | 0.44 | 1.37 | 402 | 1.34 | 410 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 2.26 | 2647 | 1.99 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.8 | 2734 | 0.69 | 3183 |
| 30 | 0 | 0 | 0 | 0.44 | 0.91 | 2418 | 0.75 | 2940 |
| 40 | 0 | 0 | 0 | 0.44 | 1.04 | 2117 | 0.82 | 2696 |
| 50 | 0 | 0 | 0 | 0.44 | 1.2 | 1838 | 0.9 | 2452 |
| 60 | 0 | 0 | 0 | 0.44 | 1.38 | 1589 | 1 | 2211 |
| 70 | 0 | 0 | 0 | 0.44 | 1.6 | 1375 | 1.11 | 1977 |
| 80 | 0 | 0 | 0 | 0.44 | 1.84 | 1198 | 1.25 | 1754 |
| 90 | 0 | 0 | 0 | 0.44 | 2.08 | 1056 | 1.42 | 1548 |
| 100 | 0 | 0 | 0 | 0.44 | 2.28 | 964 | 1.61 | 1364 |
| 110 | 0 | 0 | 0 | 0.44 | 2.39 | 919 | 1.83 | 1206 |
| 120 | 0 | 0 | 0 | 0.44 | 2.51 | 877 | 2.05 | 1073 |
| 130 | 0 | 0 | 0 | 0.44 | 2.63 | 838 | 2.28 | 964 |
| 167 | 0 | 0 | 0 | 0.44 | 3.07 | 718 | 3.03 | 727 |
| 212 | 0 | 0 | 0 | 0.44 | 3.6 | 612 | 3.56 | 618 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 4.77 | 2818 | 4.48 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 2.29 | 2164 | 1.95 | 2542 |
| 30 | 0 | 0 | 0 | 0.44 | 2.56 | 1936 | 2.12 | 2330 |
| 40 | 0 | 0 | 0 | 0.44 | 2.85 | 1736 | 2.33 | 2128 |
| 50 | 0 | 0 | 0 | 0.44 | 3.17 | 1564 | 2.55 | 1939 |
| 60 | 0 | 0 | 0 | 0.44 | 3.49 | 1419 | 2.8 | 1765 |
| 70 | 0 | 0 | 0 | 0.44 | 3.82 | 1298 | 3.08 | 1610 |
| 80 | 0 | 0 | 0 | 0.44 | 4.14 | 1196 | 3.36 | 1473 |
| 90 | 0 | 0 | 0 | 0.44 | 4.46 | 1110 | 3.66 | 1354 |
| 100 | 0 | 0 | 0 | 0.44 | 4.78 | 1038 | 3.96 | 1251 |
| 110 | 0 | 0 | 0 | 0.44 | 5.05 | 981 | 4.26 | 1163 |
| 120 | 0 | 0 | 0 | 0.44 | 5.21 | 951 | 4.56 | 1087 |
| 130 | 0 | 0 | 0 | 0.44 | 5.37 | 923 | 4.85 | 1021 |
| 167 | 0 | 0 | 0 | 0.44 | 5.94 | 834 | 5.88 | 843 |
| 212 | 0 | 0 | 0 | 0.44 | 6.63 | 748 | 6.59 | 752 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 8.25 | 2901 | 7.97 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 5.18 | 1699 | 4.56 | 1932 |
| 30 | 0 | 0 | 0 | 0.44 | 5.58 | 1578 | 4.9 | 1798 |
| 40 | 0 | 0 | 0 | 0.44 | 5.98 | 1474 | 5.25 | 1678 |
| 50 | 0 | 0 | 0 | 0.44 | 6.37 | 1384 | 5.61 | 1571 |
| 60 | 0 | 0 | 0 | 0.44 | 6.75 | 1305 | 5.97 | 1477 |
| 70 | 0 | 0 | 0 | 0.44 | 7.13 | 1237 | 6.33 | 1393 |
| 80 | 0 | 0 | 0 | 0.44 | 7.49 | 1176 | 6.68 | 1318 |
| 90 | 0 | 0 | 0 | 0.44 | 7.85 | 1123 | 7.04 | 1252 |
| 100 | 0 | 0 | 0 | 0.44 | 8.2 | 1075 | 7.38 | 1193 |
| 110 | 0 | 0 | 0 | 0.44 | 8.54 | 1032 | 7.72 | 1141 |
| 120 | 0 | 0 | 0 | 0.44 | 8.84 | 997 | 8.06 | 1094 |
| 130 | 0 | 0 | 0 | 0.44 | 9.03 | 977 | 8.39 | 1051 |
| 167 | 0 | 0 | 0 | 0.44 | 9.7 | 909 | 9.54 | 924 |
| 212 | 0 | 0 | 0 | 0.44 | 10.5 | 840 | 10.47 | 843 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.194 | 12.72 | 2941 | 12.47 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 9.46 | 1455 | 8.74 | 1576 |
| 30 | 0 | 0 | 0 | 0.44 | 9.89 | 1392 | 9.14 | 1506 |
| 40 | 0 | 0 | 0 | 0.44 | 10.31 | 1336 | 9.55 | 1442 |
| 50 | 0 | 0 | 0 | 0.44 | 10.72 | 1285 | 9.95 | 1385 |
| 60 | 0 | 0 | 0 | 0.44 | 11.12 | 1239 | 10.34 | 1332 |
| 70 | 0 | 0 | 0 | 0.44 | 11.52 | 1196 | 10.73 | 1284 |
| 80 | 0 | 0 | 0 | 0.44 | 11.9 | 1158 | 11.11 | 1241 |
| 90 | 0 | 0 | 0 | 0.44 | 12.28 | 1123 | 11.48 | 1200 |
| 100 | 0 | 0 | 0 | 0.44 | 12.65 | 1090 | 11.85 | 1163 |
| 110 | 0 | 0 | 0 | 0.44 | 13.01 | 1060 | 12.21 | 1129 |
| 120 | 0 | 0 | 0 | 0.44 | 13.36 | 1032 | 12.56 | 1097 |
| 130 | 0 | 0 | 0 | 0.44 | 13.64 | 1011 | 12.91 | 1068 |
| 167 | 0 | 0 | 0 | 0.44 | 14.39 | 959 | 14.14 | 975 |
| 212 | 0 | 0 | 0 | 0.44 | 15.27 | 904 | 15.24 | 905 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 175.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 | 1-0 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-3 | 1-5 | 1-6 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-9 | 1-11 | 2-0 |
| 200.00 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-11 | 2-3 | 2-5 | 2-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.235

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-4 |
| 250.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-10 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-5 | 1-7 | 1-10 | 2-1 | 2-3 | 2-5 |
| 225.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 | 2-11 | 3-0 |
| 250.00 | 1-3 | 1-5 | 1-7 | 1-10 | 2-2 | 2-6 | 2-10 | 3-3 | 3-7 | 3-9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.236

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 |
| 225.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 250.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 |
| 275.00 | 1-8 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 |
| 300.00 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-3 |
| 325.00 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-11 | 4-4 | 4-8 | 5-0 |
| 350.00 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 | 5-0 | 5-5 | 5-10 |
| 375.00 | 3-1 | 3-4 | 3-8 | 4-0 | 4-5 | 4-10 | 5-3 | 5-9 | 6-2 | 6-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 200.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 |
| 225.00 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 250.00 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 |
| 275.00 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 |
| 300.00 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-9 | 5-1 |
| 325.00 | 2-8 | 3-0 | 3-4 | 3-9 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 | 5-11 |
| 350.00 | 3-1 | 3-6 | 3-11 | 4-4 | 4-9 | 5-2 | 5-8 | 6-1 | 6-6 | 6-11 |
| 375.00 | 3-7 | 4-0 | 4-5 | 4-11 | 5-5 | 6-0 | 6-6 | 7-0 | 7-6 | 7-11 |

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| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 225.00 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 250.00 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 |
| 275.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 300.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 |
| 325.00 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 |
| 350.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 |
| 375.00 | 4-0 | 4-4 | 4-7 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-6 | 6-9 |
| 400.00 | 4-7 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 | 6-8 | 7-0 | 7-5 | 7-9 |
| 425.00 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 7-11 | 8-4 | 8-9 |
| 450.00 | 5-9 | 6-2 | 6-8 | 7-1 | 7-7 | 8-0 | 8-6 | 8-11 | 9-4 | 9-9 |
| 475.00 | 6-5 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-5 | 9-11 | 10-5 | 10-11 |
| 500.00 | 7-1 | 7-8 | 8-2 | 8-9 | 9-4 | 9-11 | 10-5 | 11-0 | 11-6 | 12-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 |
| 250.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 |
| 275.00 | 2-5 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-9 | 3-10 | 4-0 |
| 300.00 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-10 |
| 325.00 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 |
| 350.00 | 4-0 | 4-3 | 4-7 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 | 6-6 |
| 375.00 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 |
| 400.00 | 5-2 | 5-7 | 6-0 | 6-4 | 6-9 | 7-2 | 7-6 | 7-10 | 8-2 | 8-6 |
| 425.00 | 5-10 | 6-4 | 6-9 | 7-2 | 7-7 | 8-1 | 8-6 | 8-10 | 9-3 | 9-8 |
| 450.00 | 6-7 | 7-1 | 7-7 | 8-1 | 8-7 | 9-0 | 9-6 | 9-11 | 10-5 | 10-10 |
| 475.00 | 7-4 | 7-10 | 8-5 | 9-0 | 9-6 | 10-1 | 10-7 | 11-1 | 11-7 | 12-1 |
| 500.00 | 8-1 | 8-9 | 9-4 | 9-11 | 10-7 | 11-2 | 11-9 | 12-3 | 12-10 | 13-4 |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 |
| 275.00 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 |
| 300.00 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 |
| 325.00 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 |
| 350.00 | 4-3 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-10 | 6-0 |
| 375.00 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 |
| 400.00 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 |
| 425.00 | 6-4 | 6-7 | 6-11 | 7-2 | 7-6 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 |
| 450.00 | 7-1 | 7-5 | 7-9 | 8-1 | 8-4 | 8-8 | 9-0 | 9-4 | 9-7 | 9-11 |
| 475.00 | 7-11 | 8-3 | 8-7 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 |
| 500.00 | 8-9 | 9-2 | 9-7 | 9-11 | 10-4 | 10-9 | 11-1 | 11-6 | 11-10 | 12-2 |
| 525.00 | 9-8 | 10-1 | 10-6 | 11-0 | 11-5 | 11-10 | 12-3 | 12-8 | 13-1 | 13-6 |
| 550.00 | 10-7 | 11-1 | 11-7 | 12-0 | 12-6 | 13-0 | 13-5 | 13-11 | 14-4 | 14-9 |
| 575.00 | 11-7 | 12-1 | 12-8 | 13-2 | 13-8 | 14-2 | 14-8 | 15-2 | 15-8 | 16-2 |
| 600.00 | 12-7 | 13-2 | 13-9 | 14-4 | 14-11 | 15-5 | 16-0 | 16-6 | 17-1 | 17-7 |
| 625.00 | 13-8 | 14-3 | 14-11 | 15-7 | 16-2 | 16-9 | 17-4 | 17-11 | 18-6 | 19-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 275.00 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 |
| 300.00 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 | 4-8 |
| 325.00 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 |
| 350.00 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 |
| 375.00 | 5-4 | 5-7 | 5-10 | 6-0 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-4 |
| 400.00 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 |
| 425.00 | 6-10 | 7-2 | 7-5 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 | 9-2 | 9-5 |
| 450.00 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-6 |
| 475.00 | 8-6 | 8-11 | 9-4 | 9-8 | 10-0 | 10-5 | 10-9 | 11-1 | 11-5 | 11-9 |
| 500.00 | 9-6 | 9-11 | 10-4 | 10-9 | 11-1 | 11-6 | 11-11 | 12-3 | 12-8 | 13-0 |
| 525.00 | 10-5 | 10-11 | 11-4 | 11-10 | 12-3 | 12-8 | 13-1 | 13-6 | 13-11 | 14-4 |
| 550.00 | 11-5 | 12-0 | 12-6 | 13-0 | 13-6 | 13-11 | 14-5 | 14-10 | 15-4 | 15-9 |
| 575.00 | 12-6 | 13-1 | 13-8 | 14-2 | 14-9 | 15-3 | 15-9 | 16-3 | 16-9 | 17-2 |
| 600.00 | 13-8 | 14-3 | 14-10 | 15-5 | 16-0 | 16-7 | 17-2 | 17-8 | 18-3 | 18-9 |
| 625.00 | 14-9 | 15-5 | 16-1 | 16-9 | 17-5 | 18-0 | 18-7 | 19-2 | 19-9 | 20-4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 1.49 | 1000 | 1.49 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.97 | 568 | 0.95 | 580 |
| 30 | 0 | 0 | 0 | 0.44 | 1.4 | 394 | 1.36 | 405 |
| 40 | 0 | 0 | 0 | 0.44 | 1.52 | 362 | 1.48 | 372 |
| 50 | 0 | 0 | 0 | 0.44 | 1.64 | 336 | 1.6 | 345 |
| 60 | 0 | 0 | 0 | 0.44 | 1.75 | 314 | 1.71 | 322 |
| 70 | 0 | 0 | 0 | 0.44 | 1.86 | 296 | 1.81 | 304 |
| 80 | 0 | 0 | 0 | 0.44 | 1.94 | 284 | 1.91 | 288 |
| 90 | 0 | 0 | 0 | 0.44 | 2 | 275 | 2 | 275 |
| 100 | 0 | 0 | 0 | 0.44 | 2.06 | 267 | 2.06 | 267 |
| 110 | 0 | 0 | 0 | 0.44 | 2.12 | 260 | 2.12 | 260 |
| 120 | 0 | 0 | 0 | 0.44 | 2.18 | 253 | 2.18 | 253 |
| 130 | 0 | 0 | 0 | 0.44 | 2.24 | 246 | 2.24 | 246 |
| 167 | 0 | 0 | 0 | 0.44 | 2.44 | 226 | 2.44 | 226 |
| 212 | 0 | 0 | 0 | 0.44 | 2.67 | 207 | 2.67 | 207 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 5.99 | 1000 | 5.99 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 5.47 | 403 | 5.43 | 407 |
| 30 | 0 | 0 | 0 | 0.44 | 5.89 | 375 | 5.85 | 377 |
| 40 | 0 | 0 | 0 | 0.44 | 6.02 | 367 | 5.98 | 369 |
| 50 | 0 | 0 | 0 | 0.44 | 6.15 | 359 | 6.1 | 362 |
| 60 | 0 | 0 | 0 | 0.44 | 6.28 | 352 | 6.23 | 355 |
| 70 | 0 | 0 | 0 | 0.44 | 6.4 | 345 | 6.35 | 348 |
| 80 | 0 | 0 | 0 | 0.44 | 6.53 | 338 | 6.47 | 341 |
| 90 | 0 | 0 | 0 | 0.44 | 6.62 | 334 | 6.59 | 335 |
| 100 | 0 | 0 | 0 | 0.44 | 6.69 | 330 | 6.69 | 330 |
| 110 | 0 | 0 | 0 | 0.44 | 6.77 | 326 | 6.77 | 326 |
| 120 | 0 | 0 | 0 | 0.44 | 6.85 | 323 | 6.85 | 323 |
| 130 | 0 | 0 | 0 | 0.44 | 6.92 | 319 | 6.92 | 319 |
| 167 | 0 | 0 | 0 | 0.44 | 7.2 | 307 | 7.2 | 307 |
| 212 | 0 | 0 | 0 | 0.44 | 7.52 | 294 | 7.52 | 294 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 13.54 | 1000 | 13.54 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 13.03 | 383 | 12.97 | 384 |
| 30 | 0 | 0 | 0 | 0.44 | 13.44 | 371 | 13.4 | 372 |
| 40 | 0 | 0 | 0 | 0.44 | 13.57 | 368 | 13.53 | 369 |
| 50 | 0 | 0 | 0 | 0.44 | 13.71 | 364 | 13.66 | 365 |
| 60 | 0 | 0 | 0 | 0.44 | 13.84 | 361 | 13.79 | 362 |
| 70 | 0 | 0 | 0 | 0.44 | 13.97 | 357 | 13.91 | 359 |
| 80 | 0 | 0 | 0 | 0.44 | 14.1 | 354 | 14.04 | 356 |
| 90 | 0 | 0 | 0 | 0.44 | 14.2 | 352 | 14.16 | 353 |
| 100 | 0 | 0 | 0 | 0.44 | 14.29 | 350 | 14.28 | 350 |
| 110 | 0 | 0 | 0 | 0.44 | 14.37 | 348 | 14.37 | 348 |
| 120 | 0 | 0 | 0 | 0.44 | 14.45 | 346 | 14.45 | 346 |
| 130 | 0 | 0 | 0 | 0.44 | 14.53 | 344 | 14.53 | 344 |
| 167 | 0 | 0 | 0 | 0.44 | 14.84 | 337 | 14.84 | 337 |
| 212 | 0 | 0 | 0 | 0.44 | 15.2 | 329 | 15.2 | 329 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 24.23 | 1000 | 24.23 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 23.72 | 376 | 23.66 | 377 |
| 30 | 0 | 0 | 0 | 0.44 | 24.13 | 370 | 24.09 | 371 |
| 40 | 0 | 0 | 0 | 0.44 | 24.26 | 368 | 24.22 | 369 |
| 50 | 0 | 0 | 0 | 0.44 | 24.4 | 366 | 24.35 | 367 |
| 60 | 0 | 0 | 0 | 0.44 | 24.53 | 364 | 24.48 | 365 |
| 70 | 0 | 0 | 0 | 0.44 | 24.66 | 362 | 24.61 | 363 |
| 80 | 0 | 0 | 0 | 0.44 | 24.79 | 360 | 24.73 | 361 |
| 90 | 0 | 0 | 0 | 0.44 | 24.9 | 359 | 24.86 | 359 |
| 100 | 0 | 0 | 0 | 0.44 | 24.99 | 358 | 24.99 | 358 |
| 110 | 0 | 0 | 0 | 0.44 | 25.08 | 356 | 25.08 | 356 |
| 120 | 0 | 0 | 0 | 0.44 | 25.16 | 355 | 25.16 | 355 |
| 130 | 0 | 0 | 0 | 0.44 | 25.25 | 354 | 25.25 | 354 |
| 167 | 0 | 0 | 0 | 0.44 | 25.56 | 350 | 25.56 | 350 |
| 212 | 0 | 0 | 0 | 0.44 | 25.94 | 345 | 25.94 | 345 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 38.19 | 1000 | 38.19 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 37.68 | 373 | 37.62 | 374 |
| 30 | 0 | 0 | 0 | 0.44 | 38.08 | 369 | 38.04 | 370 |
| 40 | 0 | 0 | 0 | 0.44 | 38.22 | 368 | 38.17 | 369 |
| 50 | 0 | 0 | 0 | 0.44 | 38.35 | 367 | 38.3 | 367 |
| 60 | 0 | 0 | 0 | 0.44 | 38.48 | 366 | 38.43 | 366 |
| 70 | 0 | 0 | 0 | 0.44 | 38.62 | 365 | 38.56 | 365 |
| 80 | 0 | 0 | 0 | 0.44 | 38.75 | 363 | 38.69 | 364 |
| 90 | 0 | 0 | 0 | 0.44 | 38.86 | 362 | 38.82 | 363 |
| 100 | 0 | 0 | 0 | 0.44 | 38.95 | 362 | 38.95 | 362 |
| 110 | 0 | 0 | 0 | 0.44 | 39.04 | 361 | 39.04 | 361 |
| 120 | 0 | 0 | 0 | 0.44 | 39.13 | 360 | 39.13 | 360 |
| 130 | 0 | 0 | 0 | 0.44 | 39.21 | 359 | 39.21 | 359 |
| 167 | 0 | 0 | 0 | 0.44 | 39.54 | 357 | 39.54 | 357 |
| 212 | 0 | 0 | 0 | 0.44 | 39.92 | 353 | 39.92 | 353 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-2 |
| 100.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 125.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-4 |
| 150.00 | 2-9 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-8 | 4-9 |
| 175.00 | 3-9 | 4-2 | 4-6 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-4 | 6-6 |
| 200.00 | 4-11 | 5-5 | 5-11 | 6-5 | 6-10 | 7-3 | 7-8 | 8-0 | 8-3 | 8-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 |
| 100.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 125.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 |
| 150.00 | 2-10 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 |
| 175.00 | 3-10 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-2 | 6-4 | 6-6 |
| 200.00 | 5-1 | 5-7 | 6-1 | 6-7 | 7-0 | 7-5 | 7-9 | 8-0 | 8-3 | 8-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 |
| 125.00 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 |
| 150.00 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 |
| 175.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-1 | 5-1 | 5-2 |
| 200.00 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 |
| 225.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-2 | 8-4 | 8-6 | 8-7 |
| 250.00 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 | 10-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-8 |
| 125.00 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-7 | 2-8 |
| 150.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 |
| 175.00 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 |
| 200.00 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 |
| 225.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-7 |
| 250.00 | 9-0 | 9-2 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 |
| 175.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 |
| 200.00 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 |
| 225.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 |
| 250.00 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 275.00 | 11-2 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 |
| 300.00 | 13-3 | 13-5 | 13-6 | 13-8 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 |
| 325.00 | 15-7 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 | 16-6 | 16-8 | 16-9 | 16-10 |
| 350.00 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-2 | 19-4 | 19-6 | 19-7 |
| 375.00 | 20-9 | 21-0 | 21-2 | 21-4 | 21-7 | 21-9 | 22-0 | 22-2 | 22-4 | 22-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 |
| 175.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 |
| 200.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 |
| 225.00 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 |
| 250.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 275.00 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 300.00 | 13-4 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 |
| 325.00 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 | 16-8 | 16-9 | 16-10 |
| 350.00 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-4 | 19-6 | 19-7 |
| 375.00 | 20-10 | 21-0 | 21-3 | 21-5 | 21-8 | 21-10 | 22-1 | 22-3 | 22-4 | 22-6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 |
| 225.00 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 250.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 275.00 | 11-4 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 |
| 300.00 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 13-11 | 14-0 | 14-1 |
| 325.00 | 15-9 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-6 |
| 350.00 | 18-4 | 18-5 | 18-6 | 18-7 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 |
| 375.00 | 21-1 | 21-2 | 21-3 | 21-5 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 | 22-0 |
| 400.00 | 23-11 | 24-1 | 24-3 | 24-4 | 24-6 | 24-7 | 24-9 | 24-10 | 25-0 | 25-1 |
| 425.00 | 27-1 | 27-3 | 27-4 | 27-6 | 27-8 | 27-10 | 27-11 | 28-1 | 28-3 | 28-4 |
| 450.00 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 | 31-6 | 31-8 | 31-9 |
| 475.00 | 33-10 | 34-0 | 34-3 | 34-5 | 34-7 | 34-9 | 34-11 | 35-2 | 35-4 | 35-5 |
| 500.00 | 37-6 | 37-9 | 37-11 | 38-2 | 38-4 | 38-7 | 38-9 | 38-11 | 39-2 | 39-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 |
| 225.00 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 250.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 275.00 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 |
| 300.00 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 |
| 325.00 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-6 |
| 350.00 | 18-4 | 18-5 | 18-7 | 18-8 | 18-9 | 18-10 | 19-0 | 19-0 | 19-1 | 19-2 |
| 375.00 | 21-1 | 21-2 | 21-4 | 21-5 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 |
| 400.00 | 24-0 | 24-2 | 24-3 | 24-5 | 24-6 | 24-8 | 24-10 | 24-11 | 25-0 | 25-1 |
| 425.00 | 27-1 | 27-3 | 27-5 | 27-7 | 27-9 | 27-10 | 28-0 | 28-2 | 28-3 | 28-4 |
| 450.00 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 | 31-5 | 31-7 | 31-8 | 31-9 |
| 475.00 | 33-11 | 34-1 | 34-3 | 34-6 | 34-8 | 34-10 | 35-0 | 35-2 | 35-4 | 35-5 |
| 500.00 | 37-7 | 37-10 | 38-0 | 38-3 | 38-5 | 38-8 | 38-10 | 39-0 | 39-2 | 39-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 |
| 275.00 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 |
| 300.00 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 14-0 |
| 325.00 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-5 |
| 350.00 | 18-6 | 18-7 | 18-8 | 18-8 | 18-9 | 18-10 | 18-11 | 18-11 | 19-0 | 19-1 |
| 375.00 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 |
| 400.00 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 |
| 425.00 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 |
| 450.00 | 30-8 | 30-9 | 30-10 | 31-0 | 31-1 | 31-2 | 31-4 | 31-5 | 31-6 | 31-7 |
| 475.00 | 34-2 | 34-4 | 34-5 | 34-7 | 34-8 | 34-9 | 34-11 | 35-0 | 35-1 | 35-2 |
| 500.00 | 37-11 | 38-0 | 38-2 | 38-4 | 38-5 | 38-7 | 38-8 | 38-10 | 38-11 | 39-0 |
| 525.00 | 41-10 | 42-0 | 42-1 | 42-3 | 42-5 | 42-7 | 42-8 | 42-10 | 43-0 | 43-1 |
| 550.00 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 | 46-9 | 46-11 | 47-1 | 47-2 | 47-4 |
| 575.00 | 50-3 | 50-5 | 50-7 | 50-9 | 50-11 | 51-2 | 51-4 | 51-6 | 51-8 | 51-9 |
| 600.00 | 54-9 | 55-0 | 55-2 | 55-4 | 55-6 | 55-9 | 55-11 | 56-1 | 56-3 | 56-5 |
| 625.00 | 59-6 | 59-8 | 59-11 | 60-1 | 60-4 | 60-6 | 60-9 | 60-11 | 61-2 | 61-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-5 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-8 |
| 275.00 | 11-5 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 |
| 300.00 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-11 | 13-11 | 13-11 | 14-0 |
| 325.00 | 16-0 | 16-0 | 16-1 | 16-2 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 |
| 350.00 | 18-6 | 18-7 | 18-8 | 18-9 | 18-9 | 18-10 | 18-11 | 19-0 | 19-0 | 19-1 |
| 375.00 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-9 | 21-10 | 21-11 |
| 400.00 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-10 | 24-11 |
| 425.00 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 |
| 450.00 | 30-8 | 30-10 | 30-11 | 31-0 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 |
| 475.00 | 34-3 | 34-4 | 34-6 | 34-7 | 34-8 | 34-10 | 34-11 | 35-1 | 35-1 | 35-2 |
| 500.00 | 37-11 | 38-1 | 38-3 | 38-4 | 38-6 | 38-7 | 38-9 | 38-10 | 38-11 | 39-0 |
| 525.00 | 41-10 | 42-0 | 42-2 | 42-4 | 42-6 | 42-7 | 42-9 | 42-11 | 43-0 | 43-1 |
| 550.00 | 46-0 | 46-2 | 46-4 | 46-6 | 46-8 | 46-10 | 47-0 | 47-1 | 47-2 | 47-4 |
| 575.00 | 50-4 | 50-6 | 50-8 | 50-10 | 51-0 | 51-2 | 51-5 | 51-6 | 51-8 | 51-9 |
| 600.00 | 54-10 | 55-0 | 55-3 | 55-5 | 55-7 | 55-10 | 56-0 | 56-2 | 56-3 | 56-5 |
| 625.00 | 59-7 | 59-9 | 60-0 | 60-2 | 60-5 | 60-7 | 60-10 | 61-0 | 61-2 | 61-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 1 | 1500 | 1 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 0.38 | 1446 | 0.38 | 1446 |
| 30 | 0 | 0 | 0 | 0.44 | 0.74 | 747 | 0.68 | 810 |
| 40 | 0 | 0 | 0 | 0.44 | 0.89 | 616 | 0.82 | 672 |
| 50 | 0 | 0 | 0 | 0.44 | 1.05 | 525 | 0.96 | 571 |
| 60 | 0 | 0 | 0 | 0.44 | 1.2 | 460 | 1.11 | 497 |
| 70 | 0 | 0 | 0 | 0.44 | 1.33 | 413 | 1.24 | 442 |
| 80 | 0 | 0 | 0 | 0.44 | 1.46 | 377 | 1.37 | 401 |
| 90 | 0 | 0 | 0 | 0.44 | 1.53 | 359 | 1.5 | 368 |
| 100 | 0 | 0 | 0 | 0.44 | 1.61 | 343 | 1.61 | 343 |
| 110 | 0 | 0 | 0 | 0.44 | 1.68 | 329 | 1.68 | 329 |
| 120 | 0 | 0 | 0 | 0.44 | 1.74 | 316 | 1.74 | 316 |
| 130 | 0 | 0 | 0 | 0.44 | 1.81 | 304 | 1.81 | 304 |
| 167 | 0 | 0 | 0 | 0.44 | 2.04 | 270 | 2.04 | 270 |
| 212 | 0 | 0 | 0 | 0.44 | 2.3 | 240 | 2.3 | 240 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 4 | 1497 | 3.99 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 3.04 | 724 | 2.96 | 744 |
| 30 | 0 | 0 | 0 | 0.44 | 3.68 | 599 | 3.57 | 617 |
| 40 | 0 | 0 | 0 | 0.44 | 3.87 | 569 | 3.76 | 585 |
| 50 | 0 | 0 | 0 | 0.44 | 4.06 | 543 | 3.95 | 558 |
| 60 | 0 | 0 | 0 | 0.44 | 4.24 | 519 | 4.13 | 534 |
| 70 | 0 | 0 | 0 | 0.44 | 4.42 | 499 | 4.3 | 513 |
| 80 | 0 | 0 | 0 | 0.44 | 4.59 | 480 | 4.47 | 493 |
| 90 | 0 | 0 | 0 | 0.44 | 4.75 | 464 | 4.63 | 476 |
| 100 | 0 | 0 | 0 | 0.44 | 4.85 | 454 | 4.79 | 460 |
| 110 | 0 | 0 | 0 | 0.44 | 4.95 | 445 | 4.94 | 446 |
| 120 | 0 | 0 | 0 | 0.44 | 5.05 | 436 | 5.05 | 436 |
| 130 | 0 | 0 | 0 | 0.44 | 5.15 | 428 | 5.15 | 428 |
| 167 | 0 | 0 | 0 | 0.44 | 5.5 | 401 | 5.5 | 401 |
| 212 | 0 | 0 | 0 | 0.44 | 5.9 | 374 | 5.9 | 374 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 9 | 1497 | 8.99 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 8.05 | 617 | 7.95 | 624 |
| 30 | 0 | 0 | 0 | 0.44 | 8.68 | 572 | 8.56 | 580 |
| 40 | 0 | 0 | 0 | 0.44 | 8.88 | 560 | 8.76 | 567 |
| 50 | 0 | 0 | 0 | 0.44 | 9.07 | 548 | 8.95 | 555 |
| 60 | 0 | 0 | 0 | 0.44 | 9.26 | 536 | 9.13 | 544 |
| 70 | 0 | 0 | 0 | 0.44 | 9.45 | 526 | 9.32 | 533 |
| 80 | 0 | 0 | 0 | 0.44 | 9.64 | 516 | 9.5 | 523 |
| 90 | 0 | 0 | 0 | 0.44 | 9.82 | 506 | 9.68 | 513 |
| 100 | 0 | 0 | 0 | 0.44 | 9.96 | 499 | 9.86 | 504 |
| 110 | 0 | 0 | 0 | 0.44 | 10.08 | 493 | 10.03 | 496 |
| 120 | 0 | 0 | 0 | 0.44 | 10.2 | 488 | 10.2 | 488 |
| 130 | 0 | 0 | 0 | 0.44 | 10.31 | 482 | 10.31 | 482 |
| 167 | 0 | 0 | 0 | 0.44 | 10.71 | 464 | 10.71 | 464 |
| 212 | 0 | 0 | 0 | 0.44 | 11.19 | 445 | 11.19 | 445 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 16.04 | 1498 | 16.02 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 15.09 | 586 | 14.99 | 590 |
| 30 | 0 | 0 | 0 | 0.44 | 15.71 | 564 | 15.59 | 568 |
| 40 | 0 | 0 | 0 | 0.44 | 15.91 | 557 | 15.79 | 561 |
| 50 | 0 | 0 | 0 | 0.44 | 16.11 | 550 | 15.98 | 554 |
| 60 | 0 | 0 | 0 | 0.44 | 16.31 | 543 | 16.17 | 548 |
| 70 | 0 | 0 | 0 | 0.44 | 16.5 | 537 | 16.36 | 541 |
| 80 | 0 | 0 | 0 | 0.44 | 16.69 | 531 | 16.55 | 535 |
| 90 | 0 | 0 | 0 | 0.44 | 16.88 | 525 | 16.74 | 529 |
| 100 | 0 | 0 | 0 | 0.44 | 17.05 | 520 | 16.92 | 524 |
| 110 | 0 | 0 | 0 | 0.44 | 17.17 | 516 | 17.1 | 518 |
| 120 | 0 | 0 | 0 | 0.44 | 17.3 | 513 | 17.28 | 513 |
| 130 | 0 | 0 | 0 | 0.44 | 17.42 | 509 | 17.42 | 509 |
| 167 | 0 | 0 | 0 | 0.44 | 17.86 | 497 | 17.86 | 497 |
| 212 | 0 | 0 | 0 | 0.44 | 18.38 | 483 | 18.38 | 483 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 25.15 | 1499 | 25.13 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 24.2 | 573 | 24.1 | 576 |
| 30 | 0 | 0 | 0 | 0.44 | 24.82 | 560 | 24.7 | 562 |
| 40 | 0 | 0 | 0 | 0.44 | 25.02 | 555 | 24.89 | 558 |
| 50 | 0 | 0 | 0 | 0.44 | 25.22 | 551 | 25.09 | 554 |
| 60 | 0 | 0 | 0 | 0.44 | 25.42 | 547 | 25.28 | 549 |
| 70 | 0 | 0 | 0 | 0.44 | 25.61 | 542 | 25.47 | 545 |
| 80 | 0 | 0 | 0 | 0.44 | 25.81 | 538 | 25.66 | 541 |
| 90 | 0 | 0 | 0 | 0.44 | 26 | 535 | 25.85 | 538 |
| 100 | 0 | 0 | 0 | 0.44 | 26.18 | 531 | 26.04 | 534 |
| 110 | 0 | 0 | 0 | 0.44 | 26.31 | 528 | 26.23 | 530 |
| 120 | 0 | 0 | 0 | 0.44 | 26.44 | 526 | 26.41 | 526 |
| 130 | 0 | 0 | 0 | 0.44 | 26.57 | 523 | 26.57 | 523 |
| 167 | 0 | 0 | 0 | 0.44 | 27.02 | 515 | 27.02 | 515 |
| 212 | 0 | 0 | 0 | 0.44 | 27.57 | 505 | 27.57 | 505 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 125.00 | 0-10 | 1-1 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-7 |
| 150.00 | 1-3 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-1 | 3-4 | 3-7 | 3-9 |
| 175.00 | 1-8 | 2-1 | 2-6 | 2-11 | 3-5 | 3-10 | 4-3 | 4-7 | 4-11 | 5-2 |
| 200.00 | 2-3 | 2-9 | 3-3 | 3-10 | 4-5 | 5-0 | 5-6 | 6-0 | 6-5 | 6-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-6 | 1-7 | 1-8 |
| 125.00 | 0-11 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 | 2-6 | 2-7 |
| 150.00 | 1-4 | 1-8 | 2-0 | 2-4 | 2-8 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 |
| 175.00 | 1-10 | 2-3 | 2-9 | 3-3 | 3-8 | 4-1 | 4-6 | 4-8 | 4-11 | 5-2 |
| 200.00 | 2-4 | 2-11 | 3-7 | 4-2 | 4-9 | 5-4 | 5-10 | 6-2 | 6-5 | 6-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 150.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-9 |
| 200.00 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 |
| 225.00 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 |
| 250.00 | 5-3 | 5-7 | 5-11 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 175.00 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-9 |
| 200.00 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 | 4-11 |
| 225.00 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-0 | 6-2 | 6-3 |
| 250.00 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 |
| 175.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 |
| 200.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 |
| 225.00 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 |
| 250.00 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 |
| 275.00 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 |
| 300.00 | 8-4 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 |
| 325.00 | 9-10 | 10-1 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 | 11-4 | 11-7 | 11-9 |
| 350.00 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 |
| 375.00 | 13-1 | 13-5 | 13-8 | 14-0 | 14-3 | 14-7 | 14-10 | 15-2 | 15-5 | 15-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 |
| 175.00 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 |
| 200.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 225.00 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 250.00 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 |
| 275.00 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 | 8-6 |
| 300.00 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 | 10-1 |
| 325.00 | 9-11 | 10-2 | 10-5 | 10-8 | 10-10 | 11-1 | 11-4 | 11-6 | 11-8 | 11-10 |
| 350.00 | 11-6 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-2 | 13-4 | 13-7 | 13-9 |
| 375.00 | 13-3 | 13-7 | 13-11 | 14-2 | 14-6 | 14-9 | 15-1 | 15-4 | 15-7 | 15-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 225.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 |
| 250.00 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-8 |
| 275.00 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 |
| 300.00 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 |
| 325.00 | 10-2 | 10-3 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 | 11-2 | 11-3 |
| 350.00 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 |
| 375.00 | 13-6 | 13-8 | 13-10 | 14-1 | 14-3 | 14-5 | 14-7 | 14-8 | 14-10 | 15-0 |
| 400.00 | 15-5 | 15-7 | 15-9 | 16-0 | 16-2 | 16-4 | 16-7 | 16-9 | 16-11 | 17-1 |
| 425.00 | 17-5 | 17-7 | 17-10 | 18-1 | 18-3 | 18-6 | 18-8 | 18-11 | 19-1 | 19-4 |
| 450.00 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-2 | 21-5 | 21-8 |
| 475.00 | 21-9 | 22-0 | 22-3 | 22-7 | 22-10 | 23-1 | 23-4 | 23-7 | 23-11 | 24-2 |
| 500.00 | 24-1 | 24-5 | 24-8 | 25-0 | 25-4 | 25-7 | 25-11 | 26-2 | 26-6 | 26-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-3 |
| 225.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-5 |
| 250.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 |
| 275.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-1 |
| 300.00 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 |
| 325.00 | 10-3 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-4 |
| 350.00 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 | 12-11 | 13-1 | 13-2 |
| 375.00 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-1 |
| 400.00 | 15-6 | 15-9 | 15-11 | 16-1 | 16-4 | 16-6 | 16-8 | 16-11 | 17-1 | 17-2 |
| 425.00 | 17-6 | 17-9 | 18-0 | 18-2 | 18-5 | 18-8 | 18-10 | 19-1 | 19-3 | 19-5 |
| 450.00 | 19-8 | 19-11 | 20-2 | 20-5 | 20-8 | 20-11 | 21-2 | 21-5 | 21-7 | 21-9 |
| 475.00 | 21-11 | 22-2 | 22-6 | 22-9 | 23-0 | 23-4 | 23-7 | 23-10 | 24-1 | 24-3 |
| 500.00 | 24-3 | 24-7 | 24-11 | 25-2 | 25-6 | 25-10 | 26-1 | 26-5 | 26-8 | 26-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 |
| 275.00 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 |
| 300.00 | 8-10 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 |
| 325.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 |
| 350.00 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 |
| 375.00 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 | 14-4 | 14-5 | 14-6 | 14-7 | 14-9 |
| 400.00 | 15-8 | 15-9 | 15-11 | 16-0 | 16-2 | 16-3 | 16-5 | 16-6 | 16-8 | 16-9 |
| 425.00 | 17-8 | 17-10 | 18-0 | 18-1 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 18-11 |
| 450.00 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 |
| 475.00 | 22-1 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 |
| 500.00 | 24-6 | 24-8 | 24-11 | 25-1 | 25-3 | 25-6 | 25-8 | 25-10 | 26-0 | 26-3 |
| 525.00 | 27-0 | 27-3 | 27-5 | 27-8 | 27-11 | 28-1 | 28-4 | 28-6 | 28-9 | 28-11 |
| 550.00 | 29-8 | 29-11 | 30-2 | 30-4 | 30-7 | 30-10 | 31-1 | 31-4 | 31-6 | 31-9 |
| 575.00 | 32-5 | 32-8 | 32-11 | 33-3 | 33-6 | 33-9 | 34-0 | 34-3 | 34-6 | 34-9 |
| 600.00 | 35-4 | 35-7 | 35-11 | 36-2 | 36-5 | 36-9 | 37-0 | 37-3 | 37-7 | 37-10 |
| 625.00 | 38-4 | 38-8 | 39-0 | 39-3 | 39-7 | 39-11 | 40-2 | 40-6 | 40-9 | 41-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 |
| 275.00 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 |
| 300.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-5 | 9-5 |
| 325.00 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 |
| 350.00 | 12-0 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-9 | 12-10 | 12-10 |
| 375.00 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 |
| 400.00 | 15-9 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 |
| 425.00 | 17-9 | 17-11 | 18-1 | 18-2 | 18-4 | 18-6 | 18-8 | 18-9 | 18-11 | 19-0 |
| 450.00 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-2 | 21-4 |
| 475.00 | 22-2 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-3 | 23-6 | 23-7 | 23-9 |
| 500.00 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-7 | 25-10 | 26-0 | 26-2 | 26-4 |
| 525.00 | 27-2 | 27-4 | 27-7 | 27-10 | 28-0 | 28-3 | 28-6 | 28-8 | 28-11 | 29-0 |
| 550.00 | 29-10 | 30-1 | 30-4 | 30-6 | 30-9 | 31-0 | 31-3 | 31-6 | 31-8 | 31-10 |
| 575.00 | 32-7 | 32-10 | 33-1 | 33-5 | 33-8 | 33-11 | 34-2 | 34-5 | 34-8 | 34-10 |
| 600.00 | 35-6 | 35-9 | 36-1 | 36-4 | 36-8 | 36-11 | 37-3 | 37-6 | 37-9 | 37-11 |
| 625.00 | 38-6 | 38-10 | 39-2 | 39-6 | 39-9 | 40-1 | 40-5 | 40-9 | 41-0 | 41-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 0.75 | 1988 | 0.75 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.25 | 2195 | 0.25 | 2195 |
| 30 | 0 | 0 | 0 | 0.44 | 0.43 | 1292 | 0.39 | 1421 |
| 40 | 0 | 0 | 0 | 0.44 | 0.53 | 1028 | 0.47 | 1181 |
| 50 | 0 | 0 | 0 | 0.44 | 0.67 | 818 | 0.57 | 967 |
| 60 | 0 | 0 | 0 | 0.44 | 0.83 | 666 | 0.7 | 791 |
| 70 | 0 | 0 | 0 | 0.44 | 0.98 | 560 | 0.84 | 657 |
| 80 | 0 | 0 | 0 | 0.44 | 1.13 | 485 | 0.98 | 559 |
| 90 | 0 | 0 | 0 | 0.44 | 1.22 | 450 | 1.13 | 488 |
| 100 | 0 | 0 | 0 | 0.44 | 1.3 | 424 | 1.26 | 436 |
| 110 | 0 | 0 | 0 | 0.44 | 1.38 | 399 | 1.38 | 399 |
| 120 | 0 | 0 | 0 | 0.44 | 1.45 | 379 | 1.45 | 379 |
| 130 | 0 | 0 | 0 | 0.44 | 1.52 | 361 | 1.52 | 361 |
| 167 | 0 | 0 | 0 | 0.44 | 1.78 | 309 | 1.78 | 309 |
| 212 | 0 | 0 | 0 | 0.44 | 2.06 | 267 | 2.06 | 267 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 3.01 | 1984 | 2.99 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 1.68 | 1313 | 1.58 | 1392 |
| 30 | 0 | 0 | 0 | 0.44 | 2.42 | 911 | 2.23 | 986 |
| 40 | 0 | 0 | 0 | 0.44 | 2.66 | 828 | 2.46 | 895 |
| 50 | 0 | 0 | 0 | 0.44 | 2.89 | 761 | 2.69 | 819 |
| 60 | 0 | 0 | 0 | 0.44 | 3.12 | 706 | 2.91 | 757 |
| 70 | 0 | 0 | 0 | 0.44 | 3.34 | 660 | 3.12 | 705 |
| 80 | 0 | 0 | 0 | 0.44 | 3.55 | 621 | 3.33 | 661 |
| 90 | 0 | 0 | 0 | 0.44 | 3.75 | 588 | 3.53 | 624 |
| 100 | 0 | 0 | 0 | 0.44 | 3.9 | 565 | 3.73 | 591 |
| 110 | 0 | 0 | 0 | 0.44 | 4.01 | 549 | 3.91 | 563 |
| 120 | 0 | 0 | 0 | 0.44 | 4.12 | 535 | 4.09 | 538 |
| 130 | 0 | 0 | 0 | 0.44 | 4.23 | 520 | 4.23 | 520 |
| 167 | 0 | 0 | 0 | 0.44 | 4.63 | 477 | 4.63 | 477 |
| 212 | 0 | 0 | 0 | 0.44 | 5.08 | 435 | 5.08 | 435 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 6.77 | 1989 | 6.73 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 5.27 | 940 | 5.08 | 976 |
| 30 | 0 | 0 | 0 | 0.44 | 6.12 | 811 | 5.89 | 842 |
| 40 | 0 | 0 | 0 | 0.44 | 6.38 | 777 | 6.15 | 807 |
| 50 | 0 | 0 | 0 | 0.44 | 6.64 | 747 | 6.4 | 775 |
| 60 | 0 | 0 | 0 | 0.44 | 6.88 | 721 | 6.64 | 747 |
| 70 | 0 | 0 | 0 | 0.44 | 7.13 | 696 | 6.88 | 721 |
| 80 | 0 | 0 | 0 | 0.44 | 7.36 | 674 | 7.11 | 697 |
| 90 | 0 | 0 | 0 | 0.44 | 7.59 | 654 | 7.34 | 676 |
| 100 | 0 | 0 | 0 | 0.44 | 7.81 | 635 | 7.56 | 656 |
| 110 | 0 | 0 | 0 | 0.44 | 7.97 | 623 | 7.78 | 638 |
| 120 | 0 | 0 | 0 | 0.44 | 8.1 | 613 | 7.99 | 621 |
| 130 | 0 | 0 | 0 | 0.44 | 8.23 | 603 | 8.2 | 605 |
| 167 | 0 | 0 | 0 | 0.44 | 8.72 | 570 | 8.72 | 570 |
| 212 | 0 | 0 | 0 | 0.44 | 9.27 | 536 | 9.27 | 536 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 12.03 | 1993 | 11.98 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 10.52 | 838 | 10.31 | 856 |
| 30 | 0 | 0 | 0 | 0.44 | 11.36 | 777 | 11.12 | 794 |
| 40 | 0 | 0 | 0 | 0.44 | 11.63 | 759 | 11.38 | 776 |
| 50 | 0 | 0 | 0 | 0.44 | 11.89 | 743 | 11.64 | 759 |
| 60 | 0 | 0 | 0 | 0.44 | 12.15 | 727 | 11.89 | 743 |
| 70 | 0 | 0 | 0 | 0.44 | 12.4 | 712 | 12.14 | 728 |
| 80 | 0 | 0 | 0 | 0.44 | 12.65 | 699 | 12.38 | 713 |
| 90 | 0 | 0 | 0 | 0.44 | 12.89 | 685 | 12.62 | 700 |
| 100 | 0 | 0 | 0 | 0.44 | 13.13 | 673 | 12.86 | 687 |
| 110 | 0 | 0 | 0 | 0.44 | 13.34 | 663 | 13.09 | 675 |
| 120 | 0 | 0 | 0 | 0.44 | 13.49 | 655 | 13.32 | 663 |
| 130 | 0 | 0 | 0 | 0.44 | 13.64 | 648 | 13.55 | 652 |
| 167 | 0 | 0 | 0 | 0.44 | 14.17 | 624 | 14.17 | 624 |
| 212 | 0 | 0 | 0 | 0.44 | 14.8 | 598 | 14.8 | 598 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 18.81 | 1995 | 18.76 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 17.31 | 798 | 17.09 | 808 |
| 30 | 0 | 0 | 0 | 0.44 | 18.13 | 762 | 17.89 | 772 |
| 40 | 0 | 0 | 0 | 0.44 | 18.4 | 751 | 18.15 | 761 |
| 50 | 0 | 0 | 0 | 0.44 | 18.67 | 741 | 18.41 | 751 |
| 60 | 0 | 0 | 0 | 0.44 | 18.93 | 731 | 18.67 | 741 |
| 70 | 0 | 0 | 0 | 0.44 | 19.19 | 721 | 18.92 | 731 |
| 80 | 0 | 0 | 0 | 0.44 | 19.44 | 711 | 19.17 | 721 |
| 90 | 0 | 0 | 0 | 0.44 | 19.7 | 702 | 19.42 | 712 |
| 100 | 0 | 0 | 0 | 0.44 | 19.95 | 694 | 19.66 | 704 |
| 110 | 0 | 0 | 0 | 0.44 | 20.19 | 686 | 19.91 | 695 |
| 120 | 0 | 0 | 0 | 0.44 | 20.35 | 680 | 20.15 | 687 |
| 130 | 0 | 0 | 0 | 0.44 | 20.5 | 675 | 20.38 | 679 |
| 167 | 0 | 0 | 0 | 0.44 | 21.08 | 657 | 21.08 | 657 |
| 212 | 0 | 0 | 0 | 0.44 | 21.75 | 637 | 21.75 | 637 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 |
| 125.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-6 | 1-9 | 2-0 | 2-2 |
| 150.00 | 0-9 | 0-10 | 1-1 | 1-3 | 1-7 | 1-11 | 2-3 | 2-6 | 2-10 | 3-1 |
| 175.00 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-7 | 3-0 | 3-5 | 3-10 | 4-3 |
| 200.00 | 1-4 | 1-7 | 1-10 | 2-3 | 2-9 | 3-4 | 3-11 | 4-6 | 5-1 | 5-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 |
| 125.00 | 0-6 | 0-8 | 0-10 | 1-1 | 1-3 | 1-6 | 1-9 | 1-11 | 2-0 | 2-2 |
| 150.00 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-3 | 2-7 | 2-9 | 2-11 | 3-1 |
| 175.00 | 1-1 | 1-4 | 1-8 | 2-1 | 2-6 | 3-0 | 3-6 | 3-9 | 4-0 | 4-3 |
| 200.00 | 1-5 | 1-8 | 2-2 | 2-8 | 3-4 | 3-11 | 4-6 | 4-11 | 5-2 | 5-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 |
| 150.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 175.00 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 |
| 225.00 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 4-11 |
| 250.00 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 | 4-11 | 5-2 | 5-6 | 5-10 | 6-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 |
| 150.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 175.00 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 |
| 200.00 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 | 4-0 |
| 225.00 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 4-11 | 5-1 |
| 250.00 | 3-5 | 3-9 | 4-2 | 4-6 | 4-11 | 5-3 | 5-7 | 5-10 | 6-1 | 6-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 225.00 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-4 |
| 250.00 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 |
| 275.00 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 |
| 300.00 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-1 | 7-4 | 7-7 | 7-9 |
| 325.00 | 6-7 | 6-11 | 7-3 | 7-6 | 7-10 | 8-1 | 8-4 | 8-7 | 8-11 | 9-2 |
| 350.00 | 7-8 | 8-0 | 8-4 | 8-9 | 9-1 | 9-4 | 9-8 | 10-0 | 10-4 | 10-7 |
| 375.00 | 8-10 | 9-2 | 9-7 | 10-0 | 10-5 | 10-9 | 11-1 | 11-6 | 11-10 | 12-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 175.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 200.00 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 | 3-6 |
| 225.00 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 |
| 250.00 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 |
| 275.00 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-8 |
| 300.00 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-4 | 7-7 | 7-10 | 8-0 |
| 325.00 | 6-10 | 7-2 | 7-6 | 7-9 | 8-1 | 8-4 | 8-8 | 8-11 | 9-2 | 9-4 |
| 350.00 | 7-11 | 8-4 | 8-8 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 10-10 |
| 375.00 | 9-2 | 9-7 | 10-0 | 10-4 | 10-9 | 11-2 | 11-6 | 11-10 | 12-3 | 12-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 250.00 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 275.00 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 |
| 300.00 | 6-1 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 |
| 325.00 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 |
| 350.00 | 8-4 | 8-6 | 8-9 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 |
| 375.00 | 9-6 | 9-9 | 10-0 | 10-3 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-6 |
| 400.00 | 10-10 | 11-1 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-7 | 12-10 | 13-1 |
| 425.00 | 12-3 | 12-7 | 12-10 | 13-2 | 13-5 | 13-8 | 14-0 | 14-3 | 14-6 | 14-9 |
| 450.00 | 13-9 | 14-1 | 14-5 | 14-9 | 15-1 | 15-4 | 15-8 | 16-0 | 16-3 | 16-7 |
| 475.00 | 15-4 | 15-8 | 16-1 | 16-5 | 16-9 | 17-2 | 17-6 | 17-10 | 18-2 | 18-6 |
| 500.00 | 17-0 | 17-5 | 17-10 | 18-2 | 18-7 | 19-0 | 19-4 | 19-9 | 20-1 | 20-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 225.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 250.00 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-2 | 5-2 |
| 275.00 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-4 |
| 300.00 | 6-3 | 6-5 | 6-6 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-5 | 7-6 |
| 325.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 |
| 350.00 | 8-6 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-10 | 10-1 | 10-3 |
| 375.00 | 9-9 | 10-0 | 10-3 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-6 | 11-9 |
| 400.00 | 11-1 | 11-4 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-4 |
| 425.00 | 12-6 | 12-10 | 13-2 | 13-5 | 13-9 | 14-0 | 14-3 | 14-7 | 14-10 | 15-1 |
| 450.00 | 14-0 | 14-5 | 14-9 | 15-1 | 15-5 | 15-8 | 16-0 | 16-4 | 16-8 | 16-11 |
| 475.00 | 15-8 | 16-0 | 16-5 | 16-9 | 17-2 | 17-6 | 17-10 | 18-2 | 18-6 | 18-10 |
| 500.00 | 17-4 | 17-9 | 18-2 | 18-7 | 19-0 | 19-5 | 19-9 | 20-2 | 20-6 | 20-10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 |
| 275.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 |
| 300.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 |
| 325.00 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 |
| 350.00 | 8-8 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 |
| 375.00 | 9-11 | 10-1 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-1 | 11-2 |
| 400.00 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 |
| 425.00 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 |
| 450.00 | 14-3 | 14-6 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 | 15-11 | 16-1 |
| 475.00 | 15-11 | 16-2 | 16-5 | 16-7 | 16-10 | 17-1 | 17-4 | 17-6 | 17-9 | 18-0 |
| 500.00 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 |
| 525.00 | 19-5 | 19-9 | 20-0 | 20-4 | 20-7 | 20-10 | 21-2 | 21-5 | 21-8 | 21-11 |
| 550.00 | 21-4 | 21-8 | 22-0 | 22-3 | 22-7 | 22-11 | 23-2 | 23-6 | 23-10 | 24-1 |
| 575.00 | 23-4 | 23-8 | 24-0 | 24-4 | 24-8 | 25-0 | 25-4 | 25-8 | 26-0 | 26-4 |
| 600.00 | 25-5 | 25-9 | 26-2 | 26-6 | 26-11 | 27-3 | 27-8 | 28-0 | 28-4 | 28-8 |
| 625.00 | 27-7 | 28-0 | 28-5 | 28-10 | 29-2 | 29-7 | 30-0 | 30-5 | 30-9 | 31-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 |
| 275.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-1 |
| 300.00 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 |
| 325.00 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 |
| 350.00 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-11 |
| 375.00 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-1 | 11-3 | 11-4 |
| 400.00 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 |
| 425.00 | 12-11 | 13-1 | 13-3 | 13-6 | 13-8 | 13-10 | 14-0 | 14-3 | 14-5 | 14-7 |
| 450.00 | 14-6 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 | 15-11 | 16-2 | 16-4 |
| 475.00 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-9 | 18-0 | 18-3 |
| 500.00 | 17-10 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 |
| 525.00 | 19-8 | 20-0 | 20-4 | 20-7 | 20-10 | 21-2 | 21-5 | 21-9 | 22-0 | 22-3 |
| 550.00 | 21-7 | 21-11 | 22-3 | 22-7 | 22-11 | 23-3 | 23-6 | 23-10 | 24-2 | 24-5 |
| 575.00 | 23-8 | 24-0 | 24-4 | 24-8 | 25-1 | 25-5 | 25-9 | 26-1 | 26-5 | 26-9 |
| 600.00 | 25-9 | 26-2 | 26-6 | 26-11 | 27-3 | 27-8 | 28-0 | 28-5 | 28-9 | 29-1 |
| 625.00 | 27-11 | 28-4 | 28-9 | 29-2 | 29-7 | 30-0 | 30-5 | 30-10 | 31-2 | 31-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 0.62 | 2411 | 0.6 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 0.2 | 2807 | 0.2 | 2807 |
| 30 | 0 | 0 | 0 | 0.44 | 0.31 | 1798 | 0.27 | 2028 |
| 40 | 0 | 0 | 0 | 0.44 | 0.37 | 1480 | 0.31 | 1765 |
| 50 | 0 | 0 | 0 | 0.44 | 0.46 | 1191 | 0.36 | 1507 |
| 60 | 0 | 0 | 0 | 0.44 | 0.58 | 945 | 0.44 | 1259 |
| 70 | 0 | 0 | 0 | 0.44 | 0.73 | 756 | 0.53 | 1034 |
| 80 | 0 | 0 | 0 | 0.44 | 0.88 | 623 | 0.65 | 843 |
| 90 | 0 | 0 | 0 | 0.44 | 0.98 | 563 | 0.79 | 695 |
| 100 | 0 | 0 | 0 | 0.44 | 1.05 | 524 | 0.94 | 586 |
| 110 | 0 | 0 | 0 | 0.44 | 1.12 | 489 | 1.08 | 508 |
| 120 | 0 | 0 | 0 | 0.44 | 1.2 | 458 | 1.2 | 458 |
| 130 | 0 | 0 | 0 | 0.44 | 1.28 | 431 | 1.28 | 431 |
| 167 | 0 | 0 | 0 | 0.44 | 1.55 | 356 | 1.55 | 356 |
| 212 | 0 | 0 | 0 | 0.44 | 1.85 | 297 | 1.85 | 297 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 2.44 | 2449 | 2.39 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 1.05 | 2092 | 1 | 2210 |
| 30 | 0 | 0 | 0 | 0.44 | 1.62 | 1358 | 1.41 | 1558 |
| 40 | 0 | 0 | 0 | 0.44 | 1.86 | 1184 | 1.6 | 1376 |
| 50 | 0 | 0 | 0 | 0.44 | 2.11 | 1045 | 1.81 | 1217 |
| 60 | 0 | 0 | 0 | 0.44 | 2.36 | 934 | 2.03 | 1084 |
| 70 | 0 | 0 | 0 | 0.44 | 2.6 | 846 | 2.26 | 974 |
| 80 | 0 | 0 | 0 | 0.44 | 2.84 | 776 | 2.49 | 884 |
| 90 | 0 | 0 | 0 | 0.44 | 3.07 | 718 | 2.72 | 810 |
| 100 | 0 | 0 | 0 | 0.44 | 3.25 | 677 | 2.94 | 749 |
| 110 | 0 | 0 | 0 | 0.44 | 3.37 | 653 | 3.15 | 698 |
| 120 | 0 | 0 | 0 | 0.44 | 3.49 | 631 | 3.36 | 655 |
| 130 | 0 | 0 | 0 | 0.44 | 3.61 | 611 | 3.56 | 619 |
| 167 | 0 | 0 | 0 | 0.44 | 4.03 | 547 | 4.03 | 547 |
| 212 | 0 | 0 | 0 | 0.44 | 4.51 | 489 | 4.51 | 489 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 5.45 | 2470 | 5.38 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 3.45 | 1437 | 3.18 | 1556 |
| 30 | 0 | 0 | 0 | 0.44 | 4.42 | 1121 | 4.06 | 1220 |
| 40 | 0 | 0 | 0 | 0.44 | 4.73 | 1047 | 4.36 | 1137 |
| 50 | 0 | 0 | 0 | 0.44 | 5.04 | 983 | 4.65 | 1065 |
| 60 | 0 | 0 | 0 | 0.44 | 5.34 | 929 | 4.94 | 1003 |
| 70 | 0 | 0 | 0 | 0.44 | 5.62 | 881 | 5.22 | 949 |
| 80 | 0 | 0 | 0 | 0.44 | 5.9 | 840 | 5.5 | 901 |
| 90 | 0 | 0 | 0 | 0.44 | 6.17 | 803 | 5.77 | 859 |
| 100 | 0 | 0 | 0 | 0.44 | 6.43 | 771 | 6.03 | 822 |
| 110 | 0 | 0 | 0 | 0.44 | 6.65 | 746 | 6.29 | 789 |
| 120 | 0 | 0 | 0 | 0.44 | 6.8 | 729 | 6.54 | 759 |
| 130 | 0 | 0 | 0 | 0.44 | 6.95 | 714 | 6.78 | 732 |
| 167 | 0 | 0 | 0 | 0.44 | 7.47 | 664 | 7.47 | 664 |
| 212 | 0 | 0 | 0 | 0.44 | 8.09 | 614 | 8.09 | 614 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 9.65 | 2481 | 9.57 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 7.51 | 1173 | 7.15 | 1232 |
| 30 | 0 | 0 | 0 | 0.44 | 8.56 | 1030 | 8.16 | 1081 |
| 40 | 0 | 0 | 0 | 0.44 | 8.89 | 992 | 8.48 | 1040 |
| 50 | 0 | 0 | 0 | 0.44 | 9.21 | 957 | 8.79 | 1003 |
| 60 | 0 | 0 | 0 | 0.44 | 9.53 | 926 | 9.1 | 969 |
| 70 | 0 | 0 | 0 | 0.44 | 9.83 | 897 | 9.41 | 938 |
| 80 | 0 | 0 | 0 | 0.44 | 10.13 | 871 | 9.7 | 909 |
| 90 | 0 | 0 | 0 | 0.44 | 10.43 | 846 | 9.99 | 883 |
| 100 | 0 | 0 | 0 | 0.44 | 10.71 | 824 | 10.28 | 858 |
| 110 | 0 | 0 | 0 | 0.44 | 10.99 | 803 | 10.56 | 836 |
| 120 | 0 | 0 | 0 | 0.44 | 11.2 | 788 | 10.83 | 815 |
| 130 | 0 | 0 | 0 | 0.44 | 11.36 | 777 | 11.1 | 795 |
| 167 | 0 | 0 | 0 | 0.44 | 11.97 | 738 | 11.96 | 738 |
| 212 | 0 | 0 | 0 | 0.44 | 12.68 | 697 | 12.67 | 697 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 15.06 | 2487 | 14.98 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 12.9 | 1069 | 12.51 | 1102 |
| 30 | 0 | 0 | 0 | 0.44 | 13.94 | 989 | 13.53 | 1019 |
| 40 | 0 | 0 | 0 | 0.44 | 14.28 | 966 | 13.86 | 995 |
| 50 | 0 | 0 | 0 | 0.44 | 14.61 | 945 | 14.18 | 973 |
| 60 | 0 | 0 | 0 | 0.44 | 14.93 | 924 | 14.49 | 952 |
| 70 | 0 | 0 | 0 | 0.44 | 15.25 | 905 | 14.81 | 932 |
| 80 | 0 | 0 | 0 | 0.44 | 15.56 | 887 | 15.11 | 913 |
| 90 | 0 | 0 | 0 | 0.44 | 15.86 | 870 | 15.41 | 895 |
| 100 | 0 | 0 | 0 | 0.44 | 16.17 | 854 | 15.71 | 879 |
| 110 | 0 | 0 | 0 | 0.44 | 16.46 | 839 | 16.01 | 863 |
| 120 | 0 | 0 | 0 | 0.44 | 16.73 | 825 | 16.3 | 847 |
| 130 | 0 | 0 | 0 | 0.44 | 16.91 | 817 | 16.58 | 833 |
| 167 | 0 | 0 | 0 | 0.44 | 17.57 | 786 | 17.57 | 787 |
| 212 | 0 | 0 | 0 | 0.44 | 18.35 | 753 | 18.35 | 754 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-9 | 2-1 | 2-5 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-5 | 2-10 | 3-4 |
| 200.00 | 1-0 | 1-1 | 1-3 | 1-6 | 1-9 | 2-2 | 2-7 | 3-2 | 3-9 | 4-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 | 1-1 | 1-1 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-6 | 1-8 | 1-9 |
| 150.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-4 | 1-8 | 2-0 | 2-2 | 2-4 | 2-6 |
| 175.00 | 0-9 | 0-11 | 1-2 | 1-5 | 1-9 | 2-3 | 2-8 | 3-0 | 3-3 | 3-5 |
| 200.00 | 1-0 | 1-3 | 1-6 | 1-10 | 2-4 | 2-11 | 3-6 | 3-11 | 4-2 | 4-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-8 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 175.00 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 200.00 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 |
| 225.00 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 |
| 250.00 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-11 | 4-3 | 4-7 | 4-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 |
| 175.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-7 |
| 200.00 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-4 |
| 225.00 | 1-9 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-11 | 4-1 | 4-3 |
| 250.00 | 2-2 | 2-6 | 2-11 | 3-3 | 3-8 | 4-1 | 4-5 | 4-10 | 5-1 | 5-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 |
| 175.00 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 |
| 225.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 |
| 250.00 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 |
| 275.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 | 5-1 | 5-3 |
| 300.00 | 3-9 | 4-1 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 |
| 325.00 | 4-5 | 4-9 | 5-1 | 5-6 | 5-10 | 6-2 | 6-5 | 6-9 | 7-1 | 7-5 |
| 350.00 | 5-1 | 5-6 | 5-11 | 6-4 | 6-9 | 7-1 | 7-6 | 7-10 | 8-3 | 8-7 |
| 375.00 | 5-11 | 6-4 | 6-10 | 7-3 | 7-9 | 8-2 | 8-7 | 9-0 | 9-5 | 9-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 175.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 200.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 |
| 225.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 |
| 250.00 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 | 4-7 |
| 275.00 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 |
| 300.00 | 4-1 | 4-5 | 4-9 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 |
| 325.00 | 4-10 | 5-2 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 |
| 350.00 | 5-7 | 6-0 | 6-5 | 6-10 | 7-3 | 7-8 | 8-0 | 8-5 | 8-9 | 9-1 |
| 375.00 | 6-5 | 6-11 | 7-5 | 7-11 | 8-4 | 8-9 | 9-3 | 9-8 | 10-1 | 10-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 225.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 250.00 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 |
| 275.00 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 |
| 300.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 |
| 325.00 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 |
| 350.00 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 |
| 375.00 | 6-11 | 7-2 | 7-5 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 |
| 400.00 | 7-10 | 8-2 | 8-6 | 8-10 | 9-1 | 9-5 | 9-8 | 10-0 | 10-3 | 10-7 |
| 425.00 | 8-10 | 9-3 | 9-7 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 |
| 450.00 | 9-11 | 10-4 | 10-9 | 11-2 | 11-6 | 11-11 | 12-3 | 12-8 | 13-0 | 13-4 |
| 475.00 | 11-0 | 11-6 | 12-0 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-11 |
| 500.00 | 12-3 | 12-9 | 13-3 | 13-9 | 14-3 | 14-8 | 15-2 | 15-7 | 16-1 | 16-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 225.00 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 |
| 250.00 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 |
| 275.00 | 3-11 | 4-1 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 |
| 300.00 | 4-7 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 |
| 325.00 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 |
| 350.00 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 |
| 375.00 | 7-3 | 7-6 | 7-10 | 8-1 | 8-4 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 |
| 400.00 | 8-3 | 8-7 | 8-11 | 9-3 | 9-6 | 9-10 | 10-2 | 10-5 | 10-9 | 11-0 |
| 425.00 | 9-3 | 9-8 | 10-0 | 10-5 | 10-9 | 11-1 | 11-5 | 11-9 | 12-1 | 12-5 |
| 450.00 | 10-5 | 10-10 | 11-3 | 11-8 | 12-1 | 12-5 | 12-10 | 13-2 | 13-7 | 13-11 |
| 475.00 | 11-7 | 12-1 | 12-6 | 13-0 | 13-5 | 13-10 | 14-4 | 14-8 | 15-1 | 15-6 |
| 500.00 | 12-10 | 13-5 | 13-11 | 14-5 | 14-11 | 15-4 | 15-10 | 16-4 | 16-9 | 17-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 275.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 300.00 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 |
| 325.00 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 |
| 350.00 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-8 | 7-10 |
| 375.00 | 7-5 | 7-7 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 |
| 400.00 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-1 | 10-3 |
| 425.00 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-8 | 10-11 | 11-2 | 11-4 | 11-7 |
| 450.00 | 10-8 | 10-11 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 |
| 475.00 | 11-11 | 12-2 | 12-6 | 12-10 | 13-1 | 13-4 | 13-8 | 13-11 | 14-2 | 14-5 |
| 500.00 | 13-2 | 13-6 | 13-10 | 14-2 | 14-6 | 14-10 | 15-1 | 15-5 | 15-9 | 16-0 |
| 525.00 | 14-7 | 14-11 | 15-3 | 15-8 | 16-0 | 16-4 | 16-8 | 17-0 | 17-4 | 17-8 |
| 550.00 | 16-0 | 16-4 | 16-9 | 17-2 | 17-6 | 17-11 | 18-3 | 18-8 | 19-0 | 19-4 |
| 575.00 | 17-5 | 17-11 | 18-4 | 18-9 | 19-2 | 19-7 | 20-0 | 20-5 | 20-9 | 21-2 |
| 600.00 | 19-0 | 19-6 | 20-0 | 20-5 | 20-11 | 21-4 | 21-9 | 22-3 | 22-8 | 23-1 |
| 625.00 | 20-8 | 21-2 | 21-8 | 22-2 | 22-8 | 23-2 | 23-8 | 24-1 | 24-7 | 25-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 |
| 275.00 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 |
| 300.00 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 |
| 325.00 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 |
| 350.00 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 | 7-11 | 8-1 |
| 375.00 | 7-8 | 7-10 | 8-0 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 |
| 400.00 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 |
| 425.00 | 9-10 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-11 |
| 450.00 | 11-0 | 11-3 | 11-7 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 |
| 475.00 | 12-3 | 12-7 | 12-11 | 13-2 | 13-6 | 13-9 | 14-0 | 14-4 | 14-7 | 14-10 |
| 500.00 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-10 | 16-2 | 16-6 |
| 525.00 | 15-0 | 15-4 | 15-9 | 16-1 | 16-6 | 16-10 | 17-2 | 17-6 | 17-10 | 18-2 |
| 550.00 | 16-6 | 16-10 | 17-3 | 17-8 | 18-1 | 18-5 | 18-10 | 19-2 | 19-7 | 19-11 |
| 575.00 | 18-0 | 18-5 | 18-11 | 19-4 | 19-9 | 20-2 | 20-7 | 21-0 | 21-5 | 21-9 |
| 600.00 | 19-7 | 20-1 | 20-7 | 21-1 | 21-6 | 22-0 | 22-5 | 22-10 | 23-4 | 23-9 |
| 625.00 | 21-3 | 21-10 | 22-4 | 22-10 | 23-4 | 23-10 | 24-4 | 24-10 | 25-3 | 25-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 0.54 | 2783 | 0.5 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.17 | 3267 | 0.16 | 3359 |
| 30 | 0 | 0 | 0 | 0.44 | 0.25 | 2226 | 0.21 | 2599 |
| 40 | 0 | 0 | 0 | 0.44 | 0.29 | 1890 | 0.24 | 2337 |
| 50 | 0 | 0 | 0 | 0.44 | 0.35 | 1568 | 0.27 | 2073 |
| 60 | 0 | 0 | 0 | 0.44 | 0.43 | 1268 | 0.3 | 1809 |
| 70 | 0 | 0 | 0 | 0.44 | 0.55 | 1009 | 0.36 | 1547 |
| 80 | 0 | 0 | 0 | 0.44 | 0.68 | 803 | 0.42 | 1296 |
| 90 | 0 | 0 | 0 | 0.44 | 0.77 | 710 | 0.52 | 1064 |
| 100 | 0 | 0 | 0 | 0.44 | 0.84 | 656 | 0.63 | 867 |
| 110 | 0 | 0 | 0 | 0.44 | 0.91 | 607 | 0.77 | 712 |
| 120 | 0 | 0 | 0 | 0.44 | 0.98 | 563 | 0.92 | 599 |
| 130 | 0 | 0 | 0 | 0.44 | 1.05 | 523 | 1.04 | 528 |
| 167 | 0 | 0 | 0 | 0.44 | 1.33 | 414 | 1.32 | 417 |
| 212 | 0 | 0 | 0 | 0.44 | 1.65 | 333 | 1.65 | 334 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 2.08 | 2873 | 1.99 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.79 | 2771 | 0.75 | 2939 |
| 30 | 0 | 0 | 0 | 0.44 | 1.18 | 1868 | 0.99 | 2218 |
| 40 | 0 | 0 | 0 | 0.44 | 1.36 | 1615 | 1.11 | 1986 |
| 50 | 0 | 0 | 0 | 0.44 | 1.58 | 1397 | 1.25 | 1764 |
| 60 | 0 | 0 | 0 | 0.44 | 1.81 | 1216 | 1.41 | 1559 |
| 70 | 0 | 0 | 0 | 0.44 | 2.06 | 1070 | 1.6 | 1375 |
| 80 | 0 | 0 | 0 | 0.44 | 2.31 | 954 | 1.81 | 1216 |
| 90 | 0 | 0 | 0 | 0.44 | 2.55 | 862 | 2.03 | 1082 |
| 100 | 0 | 0 | 0 | 0.44 | 2.75 | 801 | 2.26 | 972 |
| 110 | 0 | 0 | 0 | 0.44 | 2.87 | 768 | 2.5 | 882 |
| 120 | 0 | 0 | 0 | 0.44 | 2.99 | 737 | 2.72 | 808 |
| 130 | 0 | 0 | 0 | 0.44 | 3.11 | 709 | 2.95 | 747 |
| 167 | 0 | 0 | 0 | 0.44 | 3.55 | 621 | 3.53 | 623 |
| 212 | 0 | 0 | 0 | 0.44 | 4.06 | 543 | 4.05 | 544 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 4.59 | 2928 | 4.48 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 2.35 | 2111 | 2.12 | 2333 |
| 30 | 0 | 0 | 0 | 0.44 | 3.24 | 1530 | 2.79 | 1772 |
| 40 | 0 | 0 | 0 | 0.44 | 3.56 | 1390 | 3.06 | 1617 |
| 50 | 0 | 0 | 0 | 0.44 | 3.89 | 1273 | 3.35 | 1480 |
| 60 | 0 | 0 | 0 | 0.44 | 4.21 | 1175 | 3.64 | 1361 |
| 70 | 0 | 0 | 0 | 0.44 | 4.53 | 1093 | 3.94 | 1257 |
| 80 | 0 | 0 | 0 | 0.44 | 4.84 | 1023 | 4.24 | 1169 |
| 90 | 0 | 0 | 0 | 0.44 | 5.15 | 963 | 4.54 | 1092 |
| 100 | 0 | 0 | 0 | 0.44 | 5.44 | 911 | 4.83 | 1026 |
| 110 | 0 | 0 | 0 | 0.44 | 5.7 | 870 | 5.12 | 969 |
| 120 | 0 | 0 | 0 | 0.44 | 5.85 | 847 | 5.4 | 918 |
| 130 | 0 | 0 | 0 | 0.44 | 6.01 | 825 | 5.67 | 874 |
| 167 | 0 | 0 | 0 | 0.44 | 6.57 | 755 | 6.55 | 757 |
| 212 | 0 | 0 | 0 | 0.44 | 7.23 | 687 | 7.21 | 688 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 8.09 | 2956 | 7.97 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 5.36 | 1642 | 4.89 | 1802 |
| 30 | 0 | 0 | 0 | 0.44 | 6.54 | 1347 | 5.95 | 1481 |
| 40 | 0 | 0 | 0 | 0.44 | 6.92 | 1273 | 6.31 | 1397 |
| 50 | 0 | 0 | 0 | 0.44 | 7.29 | 1208 | 6.66 | 1322 |
| 60 | 0 | 0 | 0 | 0.44 | 7.66 | 1151 | 7.01 | 1256 |
| 70 | 0 | 0 | 0 | 0.44 | 8.01 | 1100 | 7.36 | 1197 |
| 80 | 0 | 0 | 0 | 0.44 | 8.35 | 1055 | 7.7 | 1144 |
| 90 | 0 | 0 | 0 | 0.44 | 8.69 | 1015 | 8.03 | 1097 |
| 100 | 0 | 0 | 0 | 0.44 | 9.02 | 978 | 8.36 | 1054 |
| 110 | 0 | 0 | 0 | 0.44 | 9.34 | 945 | 8.68 | 1015 |
| 120 | 0 | 0 | 0 | 0.44 | 9.61 | 918 | 9 | 980 |
| 130 | 0 | 0 | 0 | 0.44 | 9.79 | 901 | 9.3 | 948 |
| 167 | 0 | 0 | 0 | 0.44 | 10.44 | 845 | 10.39 | 850 |
| 212 | 0 | 0 | 0 | 0.44 | 11.21 | 787 | 11.19 | 789 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.194 | 12.59 | 2971 | 12.47 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 9.71 | 1418 | 9.13 | 1509 |
| 30 | 0 | 0 | 0 | 0.44 | 10.96 | 1257 | 10.32 | 1335 |
| 40 | 0 | 0 | 0 | 0.44 | 11.35 | 1213 | 10.7 | 1287 |
| 50 | 0 | 0 | 0 | 0.44 | 11.74 | 1173 | 11.08 | 1243 |
| 60 | 0 | 0 | 0 | 0.44 | 12.12 | 1137 | 11.46 | 1203 |
| 70 | 0 | 0 | 0 | 0.44 | 12.49 | 1103 | 11.82 | 1166 |
| 80 | 0 | 0 | 0 | 0.44 | 12.86 | 1072 | 12.18 | 1131 |
| 90 | 0 | 0 | 0 | 0.44 | 13.21 | 1043 | 12.53 | 1100 |
| 100 | 0 | 0 | 0 | 0.44 | 13.56 | 1017 | 12.88 | 1070 |
| 110 | 0 | 0 | 0 | 0.44 | 13.91 | 992 | 13.22 | 1043 |
| 120 | 0 | 0 | 0 | 0.44 | 14.24 | 969 | 13.56 | 1017 |
| 130 | 0 | 0 | 0 | 0.44 | 14.48 | 952 | 13.89 | 993 |
| 167 | 0 | 0 | 0 | 0.44 | 15.21 | 907 | 15.06 | 916 |
| 212 | 0 | 0 | 0 | 0.44 | 16.07 | 859 | 16.05 | 860 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 |
| 125.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-2 | 1-5 | 1-9 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-4 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 2-1 | 2-6 | 3-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-7 | 0-8 | 0-10 | 1-1 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 1-0 | 1-3 | 1-6 | 1-9 | 1-11 | 2-0 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-1 | 2-4 | 2-7 | 2-9 |
| 200.00 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-9 | 3-1 | 3-4 | 3-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.275

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 |
| 225.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 |
| 250.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-7 |
| 175.00 | 0-9 | 0-11 | 1-1 | 1-2 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-2 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 2-10 |
| 225.00 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-8 |
| 250.00 | 1-7 | 1-10 | 2-2 | 2-6 | 2-10 | 3-3 | 3-7 | 4-0 | 4-4 | 4-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.276

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 |
| 225.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 250.00 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 |
| 275.00 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 |
| 300.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 |
| 325.00 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-8 | 6-0 |
| 350.00 | 3-6 | 3-10 | 4-2 | 4-7 | 4-11 | 5-4 | 5-9 | 6-2 | 6-7 | 7-0 |
| 375.00 | 4-0 | 4-4 | 4-9 | 5-3 | 5-8 | 6-2 | 6-7 | 7-1 | 7-7 | 8-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 |
| 225.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 |
| 250.00 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 |
| 275.00 | 2-5 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 |
| 300.00 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 | 4-6 | 4-10 | 5-2 | 5-5 | 5-8 |
| 325.00 | 3-5 | 3-10 | 4-2 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-5 | 6-8 |
| 350.00 | 4-0 | 4-5 | 4-10 | 5-4 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-9 |
| 375.00 | 4-7 | 5-1 | 5-7 | 6-1 | 6-7 | 7-1 | 7-7 | 8-1 | 8-6 | 8-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 |
| 250.00 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 |
| 275.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 |
| 300.00 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-11 |
| 325.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 |
| 350.00 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 |
| 375.00 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 | 7-4 | 7-8 |
| 400.00 | 5-7 | 5-11 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-8 |
| 425.00 | 6-4 | 6-9 | 7-1 | 7-6 | 7-11 | 8-4 | 8-8 | 9-1 | 9-5 | 9-10 |
| 450.00 | 7-1 | 7-6 | 8-0 | 8-5 | 8-11 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 |
| 475.00 | 7-11 | 8-5 | 8-11 | 9-5 | 9-11 | 10-5 | 10-10 | 11-4 | 11-10 | 12-3 |
| 500.00 | 8-9 | 9-4 | 9-10 | 10-5 | 11-0 | 11-6 | 12-0 | 12-7 | 13-1 | 13-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 |
| 250.00 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 |
| 275.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 |
| 300.00 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-11 | 5-1 | 5-3 |
| 325.00 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 |
| 350.00 | 4-9 | 5-0 | 5-4 | 5-7 | 5-10 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 |
| 375.00 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-8 | 7-11 | 8-2 |
| 400.00 | 6-2 | 6-6 | 6-11 | 7-4 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 |
| 425.00 | 6-11 | 7-5 | 7-10 | 8-3 | 8-8 | 9-1 | 9-5 | 9-10 | 10-2 | 10-6 |
| 450.00 | 7-9 | 8-3 | 8-9 | 9-3 | 9-8 | 10-2 | 10-7 | 11-0 | 11-5 | 11-10 |
| 475.00 | 8-8 | 9-3 | 9-9 | 10-3 | 10-10 | 11-4 | 11-9 | 12-3 | 12-9 | 13-2 |
| 500.00 | 9-7 | 10-3 | 10-10 | 11-5 | 12-0 | 12-6 | 13-1 | 13-7 | 14-1 | 14-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 |
| 275.00 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 |
| 300.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 |
| 325.00 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 |
| 350.00 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 |
| 375.00 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 |
| 400.00 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-6 |
| 425.00 | 7-2 | 7-5 | 7-9 | 8-0 | 8-3 | 8-6 | 8-10 | 9-1 | 9-4 | 9-7 |
| 450.00 | 8-0 | 8-4 | 8-8 | 9-0 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-9 |
| 475.00 | 8-11 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 | 11-7 | 11-11 |
| 500.00 | 9-11 | 10-4 | 10-8 | 11-1 | 11-5 | 11-10 | 12-2 | 12-6 | 12-11 | 13-3 |
| 525.00 | 10-11 | 11-5 | 11-10 | 12-3 | 12-8 | 13-0 | 13-5 | 13-10 | 14-2 | 14-7 |
| 550.00 | 12-0 | 12-6 | 12-11 | 13-5 | 13-10 | 14-4 | 14-9 | 15-2 | 15-7 | 16-0 |
| 575.00 | 13-2 | 13-8 | 14-2 | 14-8 | 15-2 | 15-8 | 16-1 | 16-7 | 17-0 | 17-6 |
| 600.00 | 14-4 | 14-10 | 15-5 | 16-0 | 16-6 | 17-0 | 17-7 | 18-1 | 18-7 | 19-1 |
| 625.00 | 15-6 | 16-2 | 16-9 | 17-4 | 17-11 | 18-6 | 19-0 | 19-7 | 20-2 | 20-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 |
| 275.00 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 |
| 300.00 | 3-10 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 |
| 325.00 | 4-5 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 |
| 350.00 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-10 |
| 375.00 | 5-11 | 6-2 | 6-5 | 6-7 | 6-10 | 7-0 | 7-3 | 7-5 | 7-8 | 7-10 |
| 400.00 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-5 | 8-8 | 8-11 |
| 425.00 | 7-7 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-7 | 9-10 | 10-1 |
| 450.00 | 8-7 | 8-10 | 9-2 | 9-6 | 9-10 | 10-1 | 10-5 | 10-8 | 11-0 | 11-3 |
| 475.00 | 9-6 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 | 12-7 |
| 500.00 | 10-7 | 10-11 | 11-4 | 11-9 | 12-1 | 12-6 | 12-10 | 13-3 | 13-7 | 13-11 |
| 525.00 | 11-8 | 12-1 | 12-6 | 12-11 | 13-4 | 13-9 | 14-2 | 14-7 | 14-11 | 15-4 |
| 550.00 | 12-9 | 13-3 | 13-9 | 14-3 | 14-8 | 15-1 | 15-7 | 16-0 | 16-5 | 16-10 |
| 575.00 | 13-11 | 14-6 | 15-0 | 15-6 | 16-0 | 16-6 | 17-0 | 17-6 | 17-11 | 18-5 |
| 600.00 | 15-2 | 15-9 | 16-4 | 16-11 | 17-6 | 18-0 | 18-6 | 19-0 | 19-6 | 20-0 |
| 625.00 | 16-6 | 17-2 | 17-9 | 18-4 | 18-11 | 19-6 | 20-1 | 20-8 | 21-2 | 21-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 2.43 | 1000 | 2.43 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 1.97 | 279 | 1.95 | 282 |
| 30 | 0 | 0 | 0 | 0.44 | 2.07 | 267 | 2.05 | 269 |
| 40 | 0 | 0 | 0 | 0.44 | 2.16 | 255 | 2.14 | 258 |
| 50 | 0 | 0 | 0 | 0.44 | 2.25 | 245 | 2.22 | 248 |
| 60 | 0 | 0 | 0 | 0.44 | 2.33 | 236 | 2.31 | 239 |
| 70 | 0 | 0 | 0 | 0.44 | 2.42 | 228 | 2.39 | 231 |
| 80 | 0 | 0 | 0 | 0.44 | 2.47 | 223 | 2.47 | 223 |
| 90 | 0 | 0 | 0 | 0.44 | 2.52 | 219 | 2.52 | 219 |
| 100 | 0 | 0 | 0 | 0.44 | 2.57 | 214 | 2.57 | 214 |
| 110 | 0 | 0 | 0 | 0.44 | 2.62 | 210 | 2.62 | 210 |
| 120 | 0 | 0 | 0 | 0.44 | 2.67 | 207 | 2.67 | 207 |
| 130 | 0 | 0 | 0 | 0.44 | 2.72 | 203 | 2.72 | 203 |
| 167 | 0 | 0 | 0 | 0.44 | 2.89 | 191 | 2.89 | 191 |
| 212 | 0 | 0 | 0 | 0.44 | 3.09 | 179 | 3.09 | 179 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 9.8 | 1000 | 9.8 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 9.36 | 237 | 9.33 | 238 |
| 30 | 0 | 0 | 0 | 0.44 | 9.45 | 235 | 9.42 | 236 |
| 40 | 0 | 0 | 0 | 0.44 | 9.53 | 233 | 9.51 | 233 |
| 50 | 0 | 0 | 0 | 0.44 | 9.62 | 231 | 9.59 | 232 |
| 60 | 0 | 0 | 0 | 0.44 | 9.7 | 229 | 9.67 | 230 |
| 70 | 0 | 0 | 0 | 0.44 | 9.78 | 227 | 9.75 | 228 |
| 80 | 0 | 0 | 0 | 0.44 | 9.83 | 226 | 9.83 | 226 |
| 90 | 0 | 0 | 0 | 0.44 | 9.89 | 225 | 9.89 | 225 |
| 100 | 0 | 0 | 0 | 0.44 | 9.94 | 223 | 9.94 | 223 |
| 110 | 0 | 0 | 0 | 0.44 | 10 | 222 | 10 | 222 |
| 120 | 0 | 0 | 0 | 0.44 | 10.05 | 221 | 10.05 | 221 |
| 130 | 0 | 0 | 0 | 0.44 | 10.11 | 220 | 10.11 | 220 |
| 167 | 0 | 0 | 0 | 0.44 | 10.3 | 216 | 10.3 | 216 |
| 212 | 0 | 0 | 0 | 0.44 | 10.53 | 211 | 10.53 | 211 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 22.32 | 1000 | 22.32 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 21.88 | 231 | 21.86 | 231 |
| 30 | 0 | 0 | 0 | 0.44 | 21.97 | 230 | 21.95 | 230 |
| 40 | 0 | 0 | 0 | 0.44 | 22.05 | 229 | 22.03 | 230 |
| 50 | 0 | 0 | 0 | 0.44 | 22.14 | 229 | 22.11 | 229 |
| 60 | 0 | 0 | 0 | 0.44 | 22.22 | 228 | 22.19 | 228 |
| 70 | 0 | 0 | 0 | 0.44 | 22.3 | 227 | 22.27 | 227 |
| 80 | 0 | 0 | 0 | 0.44 | 22.35 | 226 | 22.35 | 226 |
| 90 | 0 | 0 | 0 | 0.44 | 22.41 | 226 | 22.41 | 226 |
| 100 | 0 | 0 | 0 | 0.44 | 22.47 | 225 | 22.47 | 225 |
| 110 | 0 | 0 | 0 | 0.44 | 22.52 | 225 | 22.52 | 225 |
| 120 | 0 | 0 | 0 | 0.44 | 22.58 | 224 | 22.58 | 224 |
| 130 | 0 | 0 | 0 | 0.44 | 22.63 | 224 | 22.63 | 224 |
| 167 | 0 | 0 | 0 | 0.44 | 22.83 | 222 | 22.83 | 222 |
| 212 | 0 | 0 | 0 | 0.44 | 23.07 | 220 | 23.07 | 220 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 40.4 | 1000 | 40.4 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 39.97 | 229 | 39.94 | 229 |
| 30 | 0 | 0 | 0 | 0.44 | 40.05 | 229 | 40.03 | 229 |
| 40 | 0 | 0 | 0 | 0.44 | 40.14 | 228 | 40.11 | 228 |
| 50 | 0 | 0 | 0 | 0.44 | 40.22 | 228 | 40.2 | 228 |
| 60 | 0 | 0 | 0 | 0.44 | 40.3 | 227 | 40.28 | 227 |
| 70 | 0 | 0 | 0 | 0.44 | 40.38 | 227 | 40.36 | 227 |
| 80 | 0 | 0 | 0 | 0.44 | 40.44 | 227 | 40.44 | 227 |
| 90 | 0 | 0 | 0 | 0.44 | 40.5 | 226 | 40.5 | 226 |
| 100 | 0 | 0 | 0 | 0.44 | 40.55 | 226 | 40.55 | 226 |
| 110 | 0 | 0 | 0 | 0.44 | 40.61 | 226 | 40.61 | 226 |
| 120 | 0 | 0 | 0 | 0.44 | 40.66 | 225 | 40.66 | 225 |
| 130 | 0 | 0 | 0 | 0.44 | 40.72 | 225 | 40.72 | 225 |
| 167 | 0 | 0 | 0 | 0.44 | 40.92 | 224 | 40.92 | 224 |
| 212 | 0 | 0 | 0 | 0.44 | 41.16 | 223 | 41.16 | 223 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 64.73 | 1000 | 64.73 | 1000* |
| 20 | 0 | 0 | 0 | 0.44 | 64.3 | 228 | 64.27 | 228 |
| 30 | 0 | 0 | 0 | 0.44 | 64.38 | 228 | 64.36 | 228 |
| 40 | 0 | 0 | 0 | 0.44 | 64.47 | 228 | 64.44 | 228 |
| 50 | 0 | 0 | 0 | 0.44 | 64.55 | 227 | 64.52 | 227 |
| 60 | 0 | 0 | 0 | 0.44 | 64.63 | 227 | 64.61 | 227 |
| 70 | 0 | 0 | 0 | 0.44 | 64.71 | 227 | 64.69 | 227 |
| 80 | 0 | 0 | 0 | 0.44 | 64.77 | 227 | 64.77 | 227 |
| 90 | 0 | 0 | 0 | 0.44 | 64.82 | 226 | 64.82 | 226 |
| 100 | 0 | 0 | 0 | 0.44 | 64.88 | 226 | 64.88 | 226 |
| 110 | 0 | 0 | 0 | 0.44 | 64.93 | 226 | 64.93 | 226 |
| 120 | 0 | 0 | 0 | 0.44 | 64.99 | 226 | 64.99 | 226 |
| 130 | 0 | 0 | 0 | 0.44 | 65.04 | 226 | 65.04 | 226 |
| 167 | 0 | 0 | 0 | 0.44 | 65.25 | 225 | 65.25 | 225 |
| 212 | 0 | 0 | 0 | 0.44 | 65.49 | 224 | 65.49 | 224 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 |
| 100.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 125.00 | 3-1 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 150.00 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 |
| 175.00 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 |
| 200.00 | 7-10 | 8-2 | 8-7 | 8-11 | 9-3 | 9-7 | 9-11 | 10-1 | 10-4 | 10-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 |
| 100.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 125.00 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 150.00 | 4-5 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 |
| 175.00 | 6-1 | 6-4 | 6-7 | 6-11 | 7-2 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 |
| 200.00 | 7-11 | 8-3 | 8-8 | 9-0 | 9-4 | 9-8 | 9-11 | 10-1 | 10-4 | 10-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS



OH810.283

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 |
| 125.00 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 |
| 150.00 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 |
| 175.00 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 |
| 200.00 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 |
| 225.00 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 |
| 250.00 | 14-7 | 14-9 | 14-11 | 15-0 | 15-2 | 15-3 | 15-5 | 15-6 | 15-7 | 15-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 |
| 125.00 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 |
| 150.00 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 |
| 175.00 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 |
| 200.00 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 |
| 225.00 | 11-10 | 12-0 | 12-1 | 12-2 | 12-3 | 12-5 | 12-5 | 12-6 | 12-7 | 12-8 |
| 250.00 | 14-8 | 14-9 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.284

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-7 |
| 175.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 |
| 200.00 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 |
| 225.00 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 |
| 250.00 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 |
| 275.00 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-8 | 18-9 | 18-10 | 18-10 | 18-11 |
| 300.00 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-6 |
| 325.00 | 25-8 | 25-9 | 25-11 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 |
| 350.00 | 29-10 | 29-11 | 30-1 | 30-2 | 30-3 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 |
| 375.00 | 34-3 | 34-5 | 34-7 | 34-8 | 34-10 | 34-11 | 35-1 | 35-2 | 35-3 | 35-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-5 | 5-6 | 5-6 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-7 | 5-7 |
| 175.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 |
| 200.00 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 |
| 225.00 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 |
| 250.00 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 |
| 275.00 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-9 | 18-10 | 18-10 | 18-11 |
| 300.00 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-4 | 22-5 | 22-6 | 22-6 |
| 325.00 | 25-9 | 25-10 | 25-11 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 |
| 350.00 | 29-10 | 30-0 | 30-1 | 30-2 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 |
| 375.00 | 34-4 | 34-6 | 34-7 | 34-9 | 34-10 | 35-0 | 35-1 | 35-2 | 35-3 | 35-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS



OH810.285

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-11 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 |
| 225.00 | 12-6 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 |
| 250.00 | 15-6 | 15-6 | 15-7 | 15-7 | 15-7 | 15-8 | 15-8 | 15-8 | 15-9 | 15-9 |
| 275.00 | 18-9 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 19-0 | 19-0 | 19-0 | 19-1 |
| 300.00 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 | 22-7 | 22-7 | 22-8 | 22-8 | 22-8 |
| 325.00 | 26-3 | 26-4 | 26-4 | 26-5 | 26-6 | 26-6 | 26-7 | 26-7 | 26-8 | 26-8 |
| 350.00 | 30-6 | 30-7 | 30-7 | 30-8 | 30-9 | 30-10 | 30-10 | 30-11 | 30-11 | 31-0 |
| 375.00 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 |
| 400.00 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 |
| 425.00 | 45-2 | 45-3 | 45-4 | 45-5 | 45-7 | 45-8 | 45-9 | 45-10 | 45-10 | 45-11 |
| 450.00 | 50-9 | 50-10 | 50-11 | 51-1 | 51-2 | 51-3 | 51-4 | 51-5 | 51-6 | 51-7 |
| 475.00 | 56-7 | 56-9 | 56-10 | 57-0 | 57-1 | 57-3 | 57-4 | 57-5 | 57-6 | 57-7 |
| 500.00 | 62-10 | 63-0 | 63-2 | 63-3 | 63-5 | 63-6 | 63-8 | 63-9 | 63-10 | 63-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-11 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 |
| 225.00 | 12-6 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 |
| 250.00 | 15-6 | 15-6 | 15-7 | 15-7 | 15-7 | 15-8 | 15-8 | 15-8 | 15-9 | 15-9 |
| 275.00 | 18-9 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 19-0 | 19-0 | 19-0 | 19-1 |
| 300.00 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 | 22-7 | 22-7 | 22-8 | 22-8 | 22-8 |
| 325.00 | 26-3 | 26-4 | 26-5 | 26-5 | 26-6 | 26-6 | 26-7 | 26-7 | 26-8 | 26-8 |
| 350.00 | 30-6 | 30-7 | 30-8 | 30-8 | 30-9 | 30-10 | 30-10 | 30-11 | 30-11 | 31-0 |
| 375.00 | 35-1 | 35-2 | 35-3 | 35-4 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 |
| 400.00 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 | 40-5 | 40-6 | 40-7 | 40-7 |
| 425.00 | 45-2 | 45-4 | 45-5 | 45-6 | 45-7 | 45-8 | 45-9 | 45-10 | 45-10 | 45-11 |
| 450.00 | 50-9 | 50-10 | 51-0 | 51-1 | 51-2 | 51-3 | 51-4 | 51-5 | 51-6 | 51-7 |
| 475.00 | 56-8 | 56-9 | 56-11 | 57-0 | 57-2 | 57-3 | 57-4 | 57-5 | 57-6 | 57-7 |
| 500.00 | 62-11 | 63-1 | 63-2 | 63-4 | 63-5 | 63-7 | 63-8 | 63-9 | 63-10 | 63-11 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-10 | 15-10 | 15-10 | 15-11 | 15-11 | 15-11 | 15-11 | 15-11 | 16-0 | 16-0 |
| 275.00 | 19-2 | 19-2 | 19-3 | 19-3 | 19-3 | 19-3 | 19-4 | 19-4 | 19-4 | 19-4 |
| 300.00 | 22-10 | 22-10 | 22-11 | 22-11 | 22-11 | 23-0 | 23-0 | 23-0 | 23-0 | 23-1 |
| 325.00 | 26-10 | 26-10 | 26-11 | 26-11 | 27-0 | 27-0 | 27-0 | 27-1 | 27-1 | 27-1 |
| 350.00 | 31-2 | 31-2 | 31-3 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-5 | 31-6 |
| 375.00 | 35-10 | 35-10 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-1 | 36-2 | 36-2 |
| 400.00 | 40-10 | 40-11 | 40-11 | 41-0 | 41-0 | 41-1 | 41-2 | 41-2 | 41-2 | 41-3 |
| 425.00 | 46-2 | 46-3 | 46-3 | 46-4 | 46-5 | 46-6 | 46-6 | 46-7 | 46-7 | 46-8 |
| 450.00 | 51-10 | 51-11 | 52-0 | 52-1 | 52-1 | 52-2 | 52-3 | 52-4 | 52-4 | 52-5 |
| 475.00 | 57-11 | 58-0 | 58-0 | 58-1 | 58-2 | 58-3 | 58-4 | 58-5 | 58-5 | 58-6 |
| 500.00 | 64-3 | 64-4 | 64-5 | 64-6 | 64-7 | 64-8 | 64-9 | 64-10 | 64-11 | 64-11 |
| 525.00 | 71-0 | 71-1 | 71-2 | 71-4 | 71-5 | 71-6 | 71-7 | 71-8 | 71-8 | 71-9 |
| 550.00 | 78-1 | 78-3 | 78-4 | 78-5 | 78-6 | 78-7 | 78-9 | 78-9 | 78-10 | 78-11 |
| 575.00 | 85-7 | 85-8 | 85-10 | 85-11 | 86-0 | 86-2 | 86-3 | 86-4 | 86-5 | 86-6 |
| 600.00 | 93-5 | 93-7 | 93-8 | 93-9 | 93-11 | 94-0 | 94-2 | 94-3 | 94-4 | 94-5 |
| 625.00 | 101-7 | 101-9 | 101-11 | 102-0 | 102-2 | 102-3 | 102-5 | 102-6 | 102-7 | 102-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-10 | 15-10 | 15-10 | 15-11 | 15-11 | 15-11 | 15-11 | 15-11 | 16-0 | 16-0 |
| 275.00 | 19-2 | 19-2 | 19-3 | 19-3 | 19-3 | 19-3 | 19-4 | 19-4 | 19-4 | 19-4 |
| 300.00 | 22-10 | 22-10 | 22-11 | 22-11 | 22-11 | 23-0 | 23-0 | 23-0 | 23-0 | 23-1 |
| 325.00 | 26-10 | 26-10 | 26-11 | 26-11 | 27-0 | 27-0 | 27-0 | 27-1 | 27-1 | 27-1 |
| 350.00 | 31-2 | 31-3 | 31-3 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-5 | 31-6 |
| 375.00 | 35-10 | 35-11 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-1 | 36-2 | 36-2 |
| 400.00 | 40-10 | 40-11 | 40-11 | 41-0 | 41-1 | 41-1 | 41-2 | 41-2 | 41-2 | 41-3 |
| 425.00 | 46-2 | 46-3 | 46-4 | 46-4 | 46-5 | 46-6 | 46-6 | 46-7 | 46-7 | 46-8 |
| 450.00 | 51-11 | 51-11 | 52-0 | 52-1 | 52-2 | 52-2 | 52-3 | 52-4 | 52-4 | 52-5 |
| 475.00 | 57-11 | 58-0 | 58-1 | 58-2 | 58-3 | 58-3 | 58-4 | 58-5 | 58-5 | 58-6 |
| 500.00 | 64-4 | 64-5 | 64-6 | 64-7 | 64-8 | 64-9 | 64-9 | 64-10 | 64-11 | 64-11 |
| 525.00 | 71-1 | 71-2 | 71-3 | 71-4 | 71-5 | 71-6 | 71-7 | 71-8 | 71-8 | 71-9 |
| 550.00 | 78-2 | 78-3 | 78-4 | 78-5 | 78-7 | 78-8 | 78-9 | 78-9 | 78-10 | 78-11 |
| 575.00 | 85-7 | 85-9 | 85-10 | 85-11 | 86-1 | 86-2 | 86-3 | 86-4 | 86-5 | 86-6 |
| 600.00 | 93-5 | 93-7 | 93-8 | 93-10 | 93-11 | 94-1 | 94-2 | 94-3 | 94-4 | 94-5 |
| 625.00 | 101-8 | 101-10 | 101-11 | 102-1 | 102-2 | 102-4 | 102-5 | 102-6 | 102-7 | 102-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 1.62 | 1500 | 1.62 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 0.74 | 741 | 0.71 | 779 |
| 30 | 0 | 0 | 0 | 0.44 | 0.9 | 612 | 0.85 | 649 |
| 40 | 0 | 0 | 0 | 0.44 | 1.05 | 522 | 0.99 | 554 |
| 50 | 0 | 0 | 0 | 0.44 | 1.2 | 458 | 1.13 | 485 |
| 60 | 0 | 0 | 0 | 0.44 | 1.34 | 411 | 1.27 | 433 |
| 70 | 0 | 0 | 0 | 0.44 | 1.47 | 375 | 1.4 | 394 |
| 80 | 0 | 0 | 0 | 0.44 | 1.58 | 348 | 1.52 | 362 |
| 90 | 0 | 0 | 0 | 0.44 | 1.65 | 333 | 1.63 | 337 |
| 100 | 0 | 0 | 0 | 0.44 | 1.72 | 319 | 1.72 | 319 |
| 110 | 0 | 0 | 0 | 0.44 | 1.79 | 307 | 1.79 | 307 |
| 120 | 0 | 0 | 0 | 0.44 | 1.86 | 297 | 1.86 | 297 |
| 130 | 0 | 0 | 0 | 0.44 | 1.92 | 287 | 1.92 | 287 |
| 167 | 0 | 0 | 0 | 0.44 | 2.14 | 257 | 2.14 | 257 |
| 212 | 0 | 0 | 0 | 0.44 | 2.39 | 230 | 2.39 | 230 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 6.5 | 1500 | 6.5 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 5.68 | 388 | 5.63 | 392 |
| 30 | 0 | 0 | 0 | 0.44 | 5.82 | 379 | 5.76 | 383 |
| 40 | 0 | 0 | 0 | 0.44 | 5.95 | 371 | 5.89 | 375 |
| 50 | 0 | 0 | 0 | 0.44 | 6.09 | 363 | 6.02 | 367 |
| 60 | 0 | 0 | 0 | 0.44 | 6.21 | 355 | 6.15 | 359 |
| 70 | 0 | 0 | 0 | 0.44 | 6.34 | 348 | 6.27 | 352 |
| 80 | 0 | 0 | 0 | 0.44 | 6.46 | 342 | 6.39 | 346 |
| 90 | 0 | 0 | 0 | 0.44 | 6.54 | 338 | 6.51 | 339 |
| 100 | 0 | 0 | 0 | 0.44 | 6.62 | 334 | 6.62 | 334 |
| 110 | 0 | 0 | 0 | 0.44 | 6.7 | 330 | 6.7 | 330 |
| 120 | 0 | 0 | 0 | 0.44 | 6.77 | 326 | 6.77 | 326 |
| 130 | 0 | 0 | 0 | 0.44 | 6.85 | 323 | 6.85 | 323 |
| 167 | 0 | 0 | 0 | 0.44 | 7.13 | 310 | 7.13 | 310 |
| 212 | 0 | 0 | 0 | 0.44 | 7.45 | 297 | 7.45 | 297 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 14.69 | 1500 | 14.69 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 13.9 | 359 | 13.85 | 361 |
| 30 | 0 | 0 | 0 | 0.44 | 14.03 | 356 | 13.97 | 357 |
| 40 | 0 | 0 | 0 | 0.44 | 14.16 | 353 | 14.1 | 354 |
| 50 | 0 | 0 | 0 | 0.44 | 14.29 | 350 | 14.22 | 351 |
| 60 | 0 | 0 | 0 | 0.44 | 14.41 | 347 | 14.35 | 348 |
| 70 | 0 | 0 | 0 | 0.44 | 14.54 | 344 | 14.47 | 345 |
| 80 | 0 | 0 | 0 | 0.44 | 14.65 | 341 | 14.59 | 343 |
| 90 | 0 | 0 | 0 | 0.44 | 14.73 | 339 | 14.71 | 340 |
| 100 | 0 | 0 | 0 | 0.44 | 14.82 | 337 | 14.82 | 337 |
| 110 | 0 | 0 | 0 | 0.44 | 14.9 | 335 | 14.9 | 335 |
| 120 | 0 | 0 | 0 | 0.44 | 14.98 | 334 | 14.98 | 334 |
| 130 | 0 | 0 | 0 | 0.44 | 15.06 | 332 | 15.06 | 332 |
| 167 | 0 | 0 | 0 | 0.44 | 15.35 | 326 | 15.35 | 326 |
| 212 | 0 | 0 | 0 | 0.44 | 15.7 | 319 | 15.7 | 319 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 26.32 | 1500 | 26.32 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 25.54 | 350 | 25.48 | 351 |
| 30 | 0 | 0 | 0 | 0.44 | 25.66 | 349 | 25.61 | 349 |
| 40 | 0 | 0 | 0 | 0.44 | 25.79 | 347 | 25.73 | 348 |
| 50 | 0 | 0 | 0 | 0.44 | 25.92 | 345 | 25.85 | 346 |
| 60 | 0 | 0 | 0 | 0.44 | 26.04 | 344 | 25.97 | 345 |
| 70 | 0 | 0 | 0 | 0.44 | 26.17 | 342 | 26.1 | 343 |
| 80 | 0 | 0 | 0 | 0.44 | 26.28 | 341 | 26.22 | 341 |
| 90 | 0 | 0 | 0 | 0.44 | 26.36 | 340 | 26.34 | 340 |
| 100 | 0 | 0 | 0 | 0.44 | 26.45 | 339 | 26.45 | 339 |
| 110 | 0 | 0 | 0 | 0.44 | 26.53 | 338 | 26.53 | 338 |
| 120 | 0 | 0 | 0 | 0.44 | 26.61 | 337 | 26.61 | 337 |
| 130 | 0 | 0 | 0 | 0.44 | 26.69 | 336 | 26.69 | 336 |
| 167 | 0 | 0 | 0 | 0.44 | 26.99 | 332 | 26.99 | 332 |
| 212 | 0 | 0 | 0 | 0.44 | 27.35 | 328 | 27.35 | 328 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 41.55 | 1500 | 41.55 | 1500* |
| 20 | 0 | 0 | 0 | 0.44 | 40.76 | 346 | 40.71 | 347 |
| 30 | 0 | 0 | 0 | 0.44 | 40.89 | 345 | 40.83 | 346 |
| 40 | 0 | 0 | 0 | 0.44 | 41.02 | 344 | 40.96 | 345 |
| 50 | 0 | 0 | 0 | 0.44 | 41.14 | 343 | 41.08 | 344 |
| 60 | 0 | 0 | 0 | 0.44 | 41.27 | 342 | 41.2 | 343 |
| 70 | 0 | 0 | 0 | 0.44 | 41.39 | 341 | 41.32 | 342 |
| 80 | 0 | 0 | 0 | 0.44 | 41.51 | 340 | 41.44 | 341 |
| 90 | 0 | 0 | 0 | 0.44 | 41.59 | 340 | 41.56 | 340 |
| 100 | 0 | 0 | 0 | 0.44 | 41.67 | 339 | 41.67 | 339 |
| 110 | 0 | 0 | 0 | 0.44 | 41.76 | 338 | 41.76 | 338 |
| 120 | 0 | 0 | 0 | 0.44 | 41.84 | 338 | 41.84 | 338 |
| 130 | 0 | 0 | 0 | 0.44 | 41.92 | 337 | 41.92 | 337 |
| 167 | 0 | 0 | 0 | 0.44 | 42.22 | 335 | 42.22 | 335 |
| 212 | 0 | 0 | 0 | 0.44 | 42.59 | 332 | 42.59 | 332 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-9 |
| 125.00 | 1-1 | 1-4 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-7 | 2-8 | 2-10 |
| 150.00 | 1-7 | 1-11 | 2-3 | 2-7 | 2-10 | 3-2 | 3-5 | 3-8 | 3-11 | 4-0 |
| 175.00 | 2-2 | 2-7 | 3-0 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-3 | 5-6 |
| 200.00 | 2-10 | 3-5 | 4-0 | 4-7 | 5-1 | 5-7 | 6-1 | 6-7 | 6-11 | 7-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 |
| 125.00 | 1-2 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 |
| 150.00 | 1-8 | 2-0 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-9 | 3-11 | 4-0 |
| 175.00 | 2-3 | 2-9 | 3-3 | 3-8 | 4-1 | 4-6 | 4-10 | 5-1 | 5-3 | 5-6 |
| 200.00 | 3-0 | 3-7 | 4-3 | 4-10 | 5-4 | 5-11 | 6-4 | 6-7 | 6-11 | 7-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.291

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 |
| 125.00 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 150.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-9 |
| 175.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 |
| 200.00 | 5-8 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 |
| 225.00 | 7-1 | 7-4 | 7-6 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 |
| 250.00 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 |
| 125.00 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 |
| 150.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 |
| 175.00 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 |
| 200.00 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 225.00 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 |
| 250.00 | 8-11 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.292

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 |
| 175.00 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 |
| 200.00 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 |
| 225.00 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 |
| 250.00 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 |
| 275.00 | 11-8 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 |
| 300.00 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 | 14-11 |
| 325.00 | 16-3 | 16-5 | 16-7 | 16-8 | 16-10 | 17-0 | 17-2 | 17-3 | 17-5 | 17-6 |
| 350.00 | 18-10 | 19-0 | 19-3 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-2 | 20-4 |
| 375.00 | 21-8 | 21-10 | 22-1 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-8 | 3-9 |
| 175.00 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 |
| 200.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 |
| 225.00 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 |
| 250.00 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 |
| 275.00 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 |
| 300.00 | 13-11 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 | 14-8 | 14-9 | 14-10 | 14-11 |
| 325.00 | 16-4 | 16-6 | 16-8 | 16-9 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 |
| 350.00 | 18-11 | 19-1 | 19-4 | 19-6 | 19-8 | 19-10 | 20-0 | 20-1 | 20-2 | 20-4 |
| 375.00 | 21-9 | 22-0 | 22-2 | 22-4 | 22-7 | 22-9 | 22-11 | 23-1 | 23-2 | 23-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS



OH810.293

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 |
| 225.00 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 |
| 250.00 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 |
| 275.00 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 |
| 300.00 | 14-4 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-9 | 14-10 | 14-11 |
| 325.00 | 16-10 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 |
| 350.00 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-1 | 20-2 | 20-3 | 20-3 |
| 375.00 | 22-5 | 22-6 | 22-7 | 22-8 | 22-10 | 22-11 | 23-0 | 23-2 | 23-3 | 23-4 |
| 400.00 | 25-6 | 25-7 | 25-9 | 25-10 | 26-0 | 26-1 | 26-3 | 26-4 | 26-5 | 26-6 |
| 425.00 | 28-9 | 28-11 | 29-1 | 29-2 | 29-4 | 29-6 | 29-7 | 29-9 | 29-11 | 30-0 |
| 450.00 | 32-4 | 32-5 | 32-7 | 32-9 | 32-11 | 33-1 | 33-3 | 33-5 | 33-6 | 33-8 |
| 475.00 | 36-0 | 36-2 | 36-4 | 36-6 | 36-9 | 36-11 | 37-1 | 37-3 | 37-5 | 37-6 |
| 500.00 | 39-11 | 40-2 | 40-4 | 40-6 | 40-9 | 40-11 | 41-1 | 41-3 | 41-6 | 41-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 |
| 225.00 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 |
| 250.00 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 |
| 275.00 | 12-0 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 |
| 300.00 | 14-4 | 14-5 | 14-6 | 14-7 | 14-7 | 14-8 | 14-9 | 14-10 | 14-10 | 14-11 |
| 325.00 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 |
| 350.00 | 19-6 | 19-7 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-3 |
| 375.00 | 22-5 | 22-6 | 22-8 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 |
| 400.00 | 25-6 | 25-8 | 25-9 | 25-11 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 |
| 425.00 | 28-10 | 29-0 | 29-2 | 29-3 | 29-5 | 29-7 | 29-8 | 29-9 | 29-11 | 30-0 |
| 450.00 | 32-4 | 32-6 | 32-8 | 32-10 | 33-0 | 33-2 | 33-4 | 33-5 | 33-6 | 33-8 |
| 475.00 | 36-1 | 36-3 | 36-5 | 36-8 | 36-10 | 37-0 | 37-2 | 37-3 | 37-5 | 37-6 |
| 500.00 | 40-0 | 40-3 | 40-5 | 40-7 | 40-10 | 41-0 | 41-2 | 41-4 | 41-6 | 41-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS



OH810.294

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 |
| 275.00 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 |
| 300.00 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-10 | 14-11 | 14-11 | 14-11 |
| 325.00 | 17-1 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 |
| 350.00 | 19-10 | 19-11 | 20-0 | 20-0 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 |
| 375.00 | 22-10 | 22-11 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 | 23-5 |
| 400.00 | 26-0 | 26-1 | 26-2 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 |
| 425.00 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 |
| 450.00 | 32-11 | 33-0 | 33-1 | 33-3 | 33-4 | 33-5 | 33-6 | 33-7 | 33-8 | 33-9 |
| 475.00 | 36-9 | 36-10 | 36-11 | 37-0 | 37-2 | 37-3 | 37-4 | 37-6 | 37-7 | 37-8 |
| 500.00 | 40-9 | 40-10 | 40-11 | 41-1 | 41-2 | 41-4 | 41-5 | 41-7 | 41-8 | 41-9 |
| 525.00 | 44-11 | 45-1 | 45-2 | 45-4 | 45-6 | 45-7 | 45-9 | 45-10 | 46-0 | 46-1 |
| 550.00 | 49-4 | 49-6 | 49-8 | 49-10 | 49-11 | 50-1 | 50-3 | 50-5 | 50-6 | 50-7 |
| 575.00 | 54-0 | 54-2 | 54-4 | 54-6 | 54-8 | 54-10 | 55-0 | 55-2 | 55-3 | 55-5 |
| 600.00 | 58-10 | 59-0 | 59-2 | 59-5 | 59-7 | 59-9 | 59-11 | 60-1 | 60-3 | 60-4 |
| 625.00 | 63-11 | 64-1 | 64-4 | 64-6 | 64-8 | 64-11 | 65-1 | 65-3 | 65-5 | 65-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 |
| 275.00 | 12-3 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 | 12-7 |
| 300.00 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 |
| 325.00 | 17-2 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 |
| 350.00 | 19-11 | 19-11 | 20-0 | 20-1 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 |
| 375.00 | 22-10 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 |
| 400.00 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-6 | 26-7 | 26-8 |
| 425.00 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 | 30-0 | 30-1 |
| 450.00 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 | 33-6 | 33-7 | 33-8 | 33-8 | 33-9 |
| 475.00 | 36-9 | 36-10 | 37-0 | 37-1 | 37-3 | 37-4 | 37-5 | 37-6 | 37-7 | 37-8 |
| 500.00 | 40-9 | 40-11 | 41-0 | 41-2 | 41-3 | 41-5 | 41-6 | 41-7 | 41-8 | 41-9 |
| 525.00 | 45-0 | 45-1 | 45-3 | 45-5 | 45-6 | 45-8 | 45-10 | 45-11 | 46-0 | 46-1 |
| 550.00 | 49-5 | 49-7 | 49-9 | 49-10 | 50-0 | 50-2 | 50-4 | 50-5 | 50-6 | 50-7 |
| 575.00 | 54-1 | 54-3 | 54-5 | 54-7 | 54-9 | 54-11 | 55-1 | 55-2 | 55-3 | 55-5 |
| 600.00 | 58-11 | 59-1 | 59-4 | 59-6 | 59-8 | 59-10 | 60-0 | 60-2 | 60-3 | 60-4 |
| 625.00 | 64-0 | 64-2 | 64-5 | 64-7 | 64-10 | 65-0 | 65-2 | 65-4 | 65-5 | 65-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 1.24 | 1952 | 1.21 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.32 | 1742 | 0.3 | 1836 |
| 30 | 0 | 0 | 0 | 0.44 | 0.39 | 1428 | 0.35 | 1578 |
| 40 | 0 | 0 | 0 | 0.44 | 0.48 | 1145 | 0.41 | 1328 |
| 50 | 0 | 0 | 0 | 0.44 | 0.61 | 908 | 0.5 | 1096 |
| 60 | 0 | 0 | 0 | 0.44 | 0.75 | 730 | 0.62 | 894 |
| 70 | 0 | 0 | 0 | 0.44 | 0.91 | 604 | 0.75 | 734 |
| 80 | 0 | 0 | 0 | 0.44 | 1.06 | 517 | 0.89 | 615 |
| 90 | 0 | 0 | 0 | 0.44 | 1.16 | 475 | 1.04 | 529 |
| 100 | 0 | 0 | 0 | 0.44 | 1.23 | 446 | 1.18 | 466 |
| 110 | 0 | 0 | 0 | 0.44 | 1.31 | 420 | 1.31 | 420 |
| 120 | 0 | 0 | 0 | 0.44 | 1.39 | 397 | 1.39 | 397 |
| 130 | 0 | 0 | 0 | 0.44 | 1.46 | 377 | 1.46 | 377 |
| 167 | 0 | 0 | 0 | 0.44 | 1.72 | 320 | 1.72 | 320 |
| 212 | 0 | 0 | 0 | 0.44 | 2.01 | 274 | 2.01 | 274 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 4.86 | 2000 | 4.86 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 3.54 | 622 | 3.42 | 644 |
| 30 | 0 | 0 | 0 | 0.44 | 3.74 | 588 | 3.62 | 609 |
| 40 | 0 | 0 | 0 | 0.44 | 3.94 | 560 | 3.81 | 579 |
| 50 | 0 | 0 | 0 | 0.44 | 4.12 | 534 | 3.99 | 552 |
| 60 | 0 | 0 | 0 | 0.44 | 4.3 | 512 | 4.17 | 529 |
| 70 | 0 | 0 | 0 | 0.44 | 4.48 | 492 | 4.34 | 508 |
| 80 | 0 | 0 | 0 | 0.44 | 4.65 | 475 | 4.51 | 489 |
| 90 | 0 | 0 | 0 | 0.44 | 4.79 | 461 | 4.67 | 472 |
| 100 | 0 | 0 | 0 | 0.44 | 4.89 | 451 | 4.83 | 457 |
| 110 | 0 | 0 | 0 | 0.44 | 4.99 | 442 | 4.98 | 443 |
| 120 | 0 | 0 | 0 | 0.44 | 5.09 | 433 | 5.09 | 433 |
| 130 | 0 | 0 | 0 | 0.44 | 5.18 | 426 | 5.18 | 426 |
| 167 | 0 | 0 | 0 | 0.44 | 5.53 | 399 | 5.53 | 399 |
| 212 | 0 | 0 | 0 | 0.44 | 5.93 | 373 | 5.93 | 373 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 10.97 | 2000 | 10.97 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 9.71 | 512 | 9.59 | 518 |
| 30 | 0 | 0 | 0 | 0.44 | 9.89 | 503 | 9.77 | 509 |
| 40 | 0 | 0 | 0 | 0.44 | 10.07 | 494 | 9.94 | 500 |
| 50 | 0 | 0 | 0 | 0.44 | 10.24 | 485 | 10.11 | 492 |
| 60 | 0 | 0 | 0 | 0.44 | 10.42 | 477 | 10.28 | 484 |
| 70 | 0 | 0 | 0 | 0.44 | 10.59 | 470 | 10.45 | 476 |
| 80 | 0 | 0 | 0 | 0.44 | 10.75 | 463 | 10.61 | 469 |
| 90 | 0 | 0 | 0 | 0.44 | 10.89 | 457 | 10.78 | 462 |
| 100 | 0 | 0 | 0 | 0.44 | 11 | 452 | 10.94 | 455 |
| 110 | 0 | 0 | 0 | 0.44 | 11.11 | 448 | 11.09 | 449 |
| 120 | 0 | 0 | 0 | 0.44 | 11.21 | 444 | 11.21 | 444 |
| 130 | 0 | 0 | 0 | 0.44 | 11.32 | 440 | 11.32 | 440 |
| 167 | 0 | 0 | 0 | 0.44 | 11.69 | 426 | 11.69 | 426 |
| 212 | 0 | 0 | 0 | 0.44 | 12.14 | 410 | 12.14 | 410 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 19.59 | 2000 | 19.59 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 18.35 | 484 | 18.23 | 487 |
| 30 | 0 | 0 | 0 | 0.44 | 18.52 | 479 | 18.4 | 482 |
| 40 | 0 | 0 | 0 | 0.44 | 18.7 | 475 | 18.57 | 478 |
| 50 | 0 | 0 | 0 | 0.44 | 18.87 | 471 | 18.74 | 474 |
| 60 | 0 | 0 | 0 | 0.44 | 19.04 | 466 | 18.9 | 470 |
| 70 | 0 | 0 | 0 | 0.44 | 19.2 | 462 | 19.07 | 466 |
| 80 | 0 | 0 | 0 | 0.44 | 19.37 | 459 | 19.23 | 462 |
| 90 | 0 | 0 | 0 | 0.44 | 19.51 | 455 | 19.39 | 458 |
| 100 | 0 | 0 | 0 | 0.44 | 19.62 | 453 | 19.55 | 454 |
| 110 | 0 | 0 | 0 | 0.44 | 19.73 | 450 | 19.71 | 451 |
| 120 | 0 | 0 | 0 | 0.44 | 19.84 | 448 | 19.84 | 448 |
| 130 | 0 | 0 | 0 | 0.44 | 19.95 | 446 | 19.95 | 446 |
| 167 | 0 | 0 | 0 | 0.44 | 20.34 | 437 | 20.34 | 437 |
| 212 | 0 | 0 | 0 | 0.44 | 20.8 | 428 | 20.8 | 428 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 30.78 | 2000 | 30.78 | 2000* |
| 20 | 0 | 0 | 0 | 0.44 | 29.55 | 472 | 29.43 | 474 |
| 30 | 0 | 0 | 0 | 0.44 | 29.72 | 469 | 29.6 | 471 |
| 40 | 0 | 0 | 0 | 0.44 | 29.89 | 467 | 29.77 | 468 |
| 50 | 0 | 0 | 0 | 0.44 | 30.06 | 464 | 29.93 | 466 |
| 60 | 0 | 0 | 0 | 0.44 | 30.23 | 462 | 30.09 | 464 |
| 70 | 0 | 0 | 0 | 0.44 | 30.39 | 459 | 30.26 | 461 |
| 80 | 0 | 0 | 0 | 0.44 | 30.56 | 457 | 30.42 | 459 |
| 90 | 0 | 0 | 0 | 0.44 | 30.7 | 455 | 30.58 | 456 |
| 100 | 0 | 0 | 0 | 0.44 | 30.81 | 453 | 30.74 | 454 |
| 110 | 0 | 0 | 0 | 0.44 | 30.92 | 452 | 30.9 | 452 |
| 120 | 0 | 0 | 0 | 0.44 | 31.03 | 450 | 31.03 | 450 |
| 130 | 0 | 0 | 0 | 0.44 | 31.14 | 448 | 31.14 | 448 |
| 167 | 0 | 0 | 0 | 0.44 | 31.54 | 443 | 31.54 | 443 |
| 212 | 0 | 0 | 0 | 0.44 | 32.01 | 437 | 32.01 | 437 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 | 2-8 | 2-11 |
| 175.00 | 0-11 | 1-1 | 1-3 | 1-6 | 1-11 | 2-4 | 2-9 | 3-2 | 3-7 | 4-0 |
| 200.00 | 1-2 | 1-5 | 1-8 | 2-0 | 2-6 | 3-0 | 3-7 | 4-2 | 4-9 | 5-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 |
| 125.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-10 | 1-11 | 2-1 |
| 150.00 | 0-9 | 0-10 | 1-1 | 1-4 | 1-8 | 2-1 | 2-5 | 2-7 | 2-9 | 2-11 |
| 175.00 | 1-0 | 1-2 | 1-6 | 1-10 | 2-4 | 2-9 | 3-3 | 3-7 | 3-9 | 4-0 |
| 200.00 | 1-3 | 1-6 | 1-11 | 2-5 | 3-0 | 3-8 | 4-3 | 4-8 | 4-11 | 5-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 |
| 175.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 |
| 200.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 225.00 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 |
| 250.00 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 | 6-9 | 7-1 | 7-4 | 7-7 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 |
| 150.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 175.00 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 |
| 200.00 | 3-7 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 |
| 225.00 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-11 | 6-1 | 6-2 | 6-4 |
| 250.00 | 5-6 | 5-10 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 | 7-8 | 7-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 175.00 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 |
| 200.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 |
| 225.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 |
| 250.00 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 |
| 275.00 | 8-1 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 |
| 300.00 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 |
| 325.00 | 11-3 | 11-6 | 11-8 | 11-10 | 12-1 | 12-3 | 12-6 | 12-8 | 12-10 | 13-0 |
| 350.00 | 13-1 | 13-4 | 13-6 | 13-9 | 14-0 | 14-3 | 14-5 | 14-8 | 14-11 | 15-1 |
| 375.00 | 15-0 | 15-3 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 |
| 175.00 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 |
| 200.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 |
| 225.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-1 | 6-1 | 6-2 | 6-3 |
| 250.00 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-8 |
| 275.00 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 |
| 300.00 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-0 | 11-1 |
| 325.00 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-0 |
| 350.00 | 13-3 | 13-6 | 13-9 | 13-11 | 14-2 | 14-5 | 14-8 | 14-10 | 15-0 | 15-2 |
| 375.00 | 15-2 | 15-6 | 15-9 | 16-0 | 16-3 | 16-7 | 16-10 | 17-0 | 17-2 | 17-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 |
| 225.00 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 |
| 250.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 |
| 275.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 |
| 300.00 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 |
| 325.00 | 12-0 | 12-2 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 |
| 350.00 | 13-11 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 |
| 375.00 | 16-0 | 16-2 | 16-4 | 16-6 | 16-7 | 16-9 | 16-11 | 17-0 | 17-2 | 17-4 |
| 400.00 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 |
| 425.00 | 20-7 | 20-9 | 21-0 | 21-2 | 21-4 | 21-6 | 21-9 | 21-11 | 22-1 | 22-3 |
| 450.00 | 23-1 | 23-4 | 23-6 | 23-9 | 23-11 | 24-2 | 24-4 | 24-7 | 24-9 | 25-0 |
| 475.00 | 25-9 | 26-0 | 26-3 | 26-5 | 26-8 | 26-11 | 27-2 | 27-5 | 27-7 | 27-10 |
| 500.00 | 28-6 | 28-10 | 29-1 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 |
| 225.00 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 |
| 250.00 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 |
| 275.00 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 |
| 300.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-11 | 11-0 | 11-0 | 11-1 |
| 325.00 | 12-1 | 12-3 | 12-4 | 12-5 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 |
| 350.00 | 14-0 | 14-2 | 14-4 | 14-5 | 14-7 | 14-8 | 14-10 | 14-11 | 15-0 | 15-1 |
| 375.00 | 16-1 | 16-3 | 16-5 | 16-7 | 16-9 | 16-10 | 17-0 | 17-2 | 17-3 | 17-4 |
| 400.00 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-4 | 19-6 | 19-7 | 19-9 |
| 425.00 | 20-9 | 20-11 | 21-1 | 21-4 | 21-6 | 21-8 | 21-11 | 22-0 | 22-2 | 22-3 |
| 450.00 | 23-3 | 23-6 | 23-8 | 23-11 | 24-1 | 24-4 | 24-6 | 24-9 | 24-10 | 25-0 |
| 475.00 | 25-11 | 26-2 | 26-5 | 26-8 | 26-11 | 27-1 | 27-4 | 27-7 | 27-8 | 27-10 |
| 500.00 | 28-9 | 29-0 | 29-3 | 29-6 | 29-10 | 30-1 | 30-4 | 30-6 | 30-9 | 30-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 |
| 275.00 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 |
| 300.00 | 10-7 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 |
| 325.00 | 12-5 | 12-6 | 12-7 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 |
| 350.00 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 |
| 375.00 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 |
| 400.00 | 18-10 | 18-11 | 19-0 | 19-1 | 19-3 | 19-4 | 19-5 | 19-6 | 19-8 | 19-9 |
| 425.00 | 21-3 | 21-4 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 | 22-1 | 22-2 | 22-4 |
| 450.00 | 23-10 | 23-11 | 24-1 | 24-3 | 24-4 | 24-6 | 24-7 | 24-9 | 24-11 | 25-0 |
| 475.00 | 26-7 | 26-8 | 26-10 | 27-0 | 27-2 | 27-4 | 27-5 | 27-7 | 27-9 | 27-11 |
| 500.00 | 29-5 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 |
| 525.00 | 32-6 | 32-8 | 32-10 | 33-0 | 33-2 | 33-5 | 33-7 | 33-9 | 33-11 | 34-1 |
| 550.00 | 35-8 | 35-10 | 36-1 | 36-3 | 36-5 | 36-8 | 36-10 | 37-1 | 37-3 | 37-5 |
| 575.00 | 39-0 | 39-2 | 39-5 | 39-8 | 39-10 | 40-1 | 40-4 | 40-6 | 40-9 | 40-11 |
| 600.00 | 42-6 | 42-9 | 42-11 | 43-2 | 43-5 | 43-8 | 43-11 | 44-2 | 44-4 | 44-7 |
| 625.00 | 46-1 | 46-4 | 46-8 | 46-11 | 47-2 | 47-5 | 47-8 | 47-11 | 48-2 | 48-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 |
| 275.00 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 | 9-3 | 9-4 |
| 300.00 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 |
| 325.00 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 |
| 350.00 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-1 |
| 375.00 | 16-7 | 16-8 | 16-9 | 16-10 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-4 |
| 400.00 | 18-11 | 19-0 | 19-1 | 19-2 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 |
| 425.00 | 21-4 | 21-5 | 21-7 | 21-8 | 21-10 | 21-11 | 22-1 | 22-2 | 22-3 | 22-4 |
| 450.00 | 23-11 | 24-1 | 24-2 | 24-4 | 24-6 | 24-7 | 24-9 | 24-10 | 24-11 | 25-0 |
| 475.00 | 26-8 | 26-10 | 27-0 | 27-1 | 27-3 | 27-5 | 27-7 | 27-8 | 27-9 | 27-11 |
| 500.00 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-8 | 30-10 | 30-11 |
| 525.00 | 32-7 | 32-9 | 33-0 | 33-2 | 33-4 | 33-6 | 33-9 | 33-10 | 34-0 | 34-1 |
| 550.00 | 35-9 | 36-0 | 36-2 | 36-5 | 36-7 | 36-10 | 37-0 | 37-2 | 37-4 | 37-5 |
| 575.00 | 39-2 | 39-4 | 39-7 | 39-10 | 40-0 | 40-3 | 40-6 | 40-8 | 40-10 | 40-11 |
| 600.00 | 42-8 | 42-11 | 43-2 | 43-4 | 43-7 | 43-10 | 44-1 | 44-4 | 44-6 | 44-7 |
| 625.00 | 46-3 | 46-7 | 46-10 | 47-1 | 47-4 | 47-7 | 47-11 | 48-1 | 48-3 | 48-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS



OH810.303

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 1.06 | 2300 | 0.97 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 0.23 | 2430 | 0.21 | 2673 |
| 30 | 0 | 0 | 0 | 0.44 | 0.26 | 2090 | 0.23 | 2413 |
| 40 | 0 | 0 | 0 | 0.44 | 0.31 | 1758 | 0.26 | 2150 |
| 50 | 0 | 0 | 0 | 0.44 | 0.38 | 1444 | 0.29 | 1886 |
| 60 | 0 | 0 | 0 | 0.44 | 0.47 | 1158 | 0.34 | 1624 |
| 70 | 0 | 0 | 0 | 0.44 | 0.6 | 919 | 0.4 | 1369 |
| 80 | 0 | 0 | 0 | 0.44 | 0.75 | 737 | 0.49 | 1131 |
| 90 | 0 | 0 | 0 | 0.44 | 0.84 | 658 | 0.6 | 923 |
| 100 | 0 | 0 | 0 | 0.44 | 0.9 | 608 | 0.73 | 755 |
| 110 | 0 | 0 | 0 | 0.44 | 0.98 | 564 | 0.87 | 630 |
| 120 | 0 | 0 | 0 | 0.44 | 1.05 | 525 | 1.02 | 539 |
| 130 | 0 | 0 | 0 | 0.44 | 1.12 | 490 | 1.12 | 492 |
| 167 | 0 | 0 | 0 | 0.44 | 1.4 | 393 | 1.4 | 394 |
| 212 | 0 | 0 | 0 | 0.44 | 1.72 | 320 | 1.72 | 321 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 3.89 | 2499 | 3.89 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 1.99 | 1105 | 1.83 | 1205 |
| 30 | 0 | 0 | 0 | 0.44 | 2.24 | 982 | 2.05 | 1075 |
| 40 | 0 | 0 | 0 | 0.44 | 2.49 | 884 | 2.28 | 967 |
| 50 | 0 | 0 | 0 | 0.44 | 2.73 | 806 | 2.51 | 879 |
| 60 | 0 | 0 | 0 | 0.44 | 2.96 | 743 | 2.73 | 806 |
| 70 | 0 | 0 | 0 | 0.44 | 3.19 | 691 | 2.95 | 746 |
| 80 | 0 | 0 | 0 | 0.44 | 3.4 | 647 | 3.17 | 696 |
| 90 | 0 | 0 | 0 | 0.44 | 3.61 | 610 | 3.37 | 653 |
| 100 | 0 | 0 | 0 | 0.44 | 3.77 | 585 | 3.57 | 617 |
| 110 | 0 | 0 | 0 | 0.44 | 3.88 | 568 | 3.76 | 585 |
| 120 | 0 | 0 | 0 | 0.44 | 3.99 | 552 | 3.95 | 558 |
| 130 | 0 | 0 | 0 | 0.44 | 4.11 | 536 | 4.11 | 536 |
| 167 | 0 | 0 | 0 | 0.44 | 4.51 | 489 | 4.51 | 489 |
| 212 | 0 | 0 | 0 | 0.44 | 4.96 | 444 | 4.96 | 444 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 8.76 | 2500 | 8.76 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 6.91 | 718 | 6.69 | 742 |
| 30 | 0 | 0 | 0 | 0.44 | 7.15 | 694 | 6.92 | 716 |
| 40 | 0 | 0 | 0 | 0.44 | 7.38 | 672 | 7.15 | 693 |
| 50 | 0 | 0 | 0 | 0.44 | 7.61 | 652 | 7.38 | 672 |
| 60 | 0 | 0 | 0 | 0.44 | 7.83 | 634 | 7.6 | 653 |
| 70 | 0 | 0 | 0 | 0.44 | 8.05 | 617 | 7.82 | 635 |
| 80 | 0 | 0 | 0 | 0.44 | 8.27 | 601 | 8.03 | 618 |
| 90 | 0 | 0 | 0 | 0.44 | 8.47 | 586 | 8.23 | 603 |
| 100 | 0 | 0 | 0 | 0.44 | 8.63 | 576 | 8.44 | 589 |
| 110 | 0 | 0 | 0 | 0.44 | 8.76 | 567 | 8.63 | 575 |
| 120 | 0 | 0 | 0 | 0.44 | 8.88 | 559 | 8.83 | 563 |
| 130 | 0 | 0 | 0 | 0.44 | 9.01 | 551 | 9.01 | 551 |
| 167 | 0 | 0 | 0 | 0.44 | 9.46 | 525 | 9.46 | 525 |
| 212 | 0 | 0 | 0 | 0.44 | 9.99 | 498 | 9.99 | 498 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 15.62 | 2500 | 15.62 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 13.81 | 640 | 13.6 | 650 |
| 30 | 0 | 0 | 0 | 0.44 | 14.04 | 630 | 13.82 | 640 |
| 40 | 0 | 0 | 0 | 0.44 | 14.26 | 620 | 14.04 | 630 |
| 50 | 0 | 0 | 0 | 0.44 | 14.48 | 611 | 14.25 | 621 |
| 60 | 0 | 0 | 0 | 0.44 | 14.69 | 602 | 14.46 | 612 |
| 70 | 0 | 0 | 0 | 0.44 | 14.91 | 594 | 14.67 | 603 |
| 80 | 0 | 0 | 0 | 0.44 | 15.12 | 585 | 14.88 | 595 |
| 90 | 0 | 0 | 0 | 0.44 | 15.33 | 577 | 15.09 | 587 |
| 100 | 0 | 0 | 0 | 0.44 | 15.48 | 572 | 15.29 | 579 |
| 110 | 0 | 0 | 0 | 0.44 | 15.61 | 567 | 15.49 | 572 |
| 120 | 0 | 0 | 0 | 0.44 | 15.74 | 562 | 15.69 | 564 |
| 130 | 0 | 0 | 0 | 0.44 | 15.88 | 558 | 15.88 | 558 |
| 167 | 0 | 0 | 0 | 0.44 | 16.35 | 542 | 16.35 | 542 |
| 212 | 0 | 0 | 0 | 0.44 | 16.91 | 524 | 16.91 | 524 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 24.49 | 2500 | 24.49 | 2500* |
| 20 | 0 | 0 | 0 | 0.44 | 22.7 | 611 | 22.5 | 616 |
| 30 | 0 | 0 | 0 | 0.44 | 22.92 | 605 | 22.71 | 610 |
| 40 | 0 | 0 | 0 | 0.44 | 23.14 | 599 | 22.92 | 605 |
| 50 | 0 | 0 | 0 | 0.44 | 23.35 | 594 | 23.13 | 600 |
| 60 | 0 | 0 | 0 | 0.44 | 23.57 | 589 | 23.34 | 594 |
| 70 | 0 | 0 | 0 | 0.44 | 23.78 | 583 | 23.55 | 589 |
| 80 | 0 | 0 | 0 | 0.44 | 23.99 | 578 | 23.75 | 584 |
| 90 | 0 | 0 | 0 | 0.44 | 24.2 | 574 | 23.96 | 579 |
| 100 | 0 | 0 | 0 | 0.44 | 24.35 | 570 | 24.16 | 575 |
| 110 | 0 | 0 | 0 | 0.44 | 24.48 | 567 | 24.36 | 570 |
| 120 | 0 | 0 | 0 | 0.44 | 24.62 | 564 | 24.56 | 565 |
| 130 | 0 | 0 | 0 | 0.44 | 24.75 | 561 | 24.75 | 561 |
| 167 | 0 | 0 | 0 | 0.44 | 25.24 | 550 | 25.24 | 550 |
| 212 | 0 | 0 | 0 | 0.44 | 25.82 | 538 | 25.82 | 538 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-2 | 1-4 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 |
| 175.00 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 | 2-3 | 2-8 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-5 | 2-11 | 3-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-4 | 1-5 | 1-6 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-8 | 1-11 | 2-0 | 2-2 |
| 175.00 | 0-8 | 0-10 | 0-11 | 1-2 | 1-5 | 1-10 | 2-3 | 2-7 | 2-9 | 3-0 |
| 200.00 | 0-11 | 1-1 | 1-3 | 1-6 | 1-11 | 2-5 | 3-0 | 3-4 | 3-7 | 3-11 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 |
| 175.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 200.00 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 |
| 225.00 | 2-4 | 2-7 | 2-11 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 |
| 250.00 | 2-10 | 3-2 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 |
| 150.00 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 175.00 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 |
| 225.00 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-9 | 4-11 |
| 250.00 | 3-1 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 |
| 175.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 |
| 200.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 225.00 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 |
| 250.00 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 |
| 275.00 | 5-7 | 5-10 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 |
| 300.00 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-8 |
| 325.00 | 7-10 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 |
| 350.00 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 | 11-9 |
| 375.00 | 10-5 | 10-10 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-10 | 13-2 | 13-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 |
| 175.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 |
| 200.00 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 225.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 |
| 250.00 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-1 |
| 275.00 | 5-10 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-4 |
| 300.00 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-9 |
| 325.00 | 8-1 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-3 |
| 350.00 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 | 11-11 |
| 375.00 | 10-10 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-6 | 13-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 |
| 225.00 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 |
| 250.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 275.00 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 |
| 300.00 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 |
| 325.00 | 9-0 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 |
| 350.00 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-8 | 11-10 |
| 375.00 | 11-11 | 12-2 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 |
| 400.00 | 13-7 | 13-10 | 14-0 | 14-3 | 14-6 | 14-8 | 14-11 | 15-1 | 15-3 | 15-6 |
| 425.00 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-0 | 17-3 | 17-6 |
| 450.00 | 17-3 | 17-6 | 17-9 | 18-1 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 |
| 475.00 | 19-2 | 19-6 | 19-10 | 20-1 | 20-5 | 20-8 | 21-0 | 21-3 | 21-7 | 21-10 |
| 500.00 | 21-3 | 21-7 | 21-11 | 22-3 | 22-7 | 22-11 | 23-3 | 23-7 | 23-11 | 24-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 |
| 225.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 |
| 250.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 |
| 275.00 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-4 |
| 300.00 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 325.00 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 |
| 350.00 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-10 | 11-11 |
| 375.00 | 12-2 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-3 | 13-6 | 13-7 | 13-9 |
| 400.00 | 13-10 | 14-0 | 14-3 | 14-6 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-7 |
| 425.00 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-6 | 17-8 |
| 450.00 | 17-6 | 17-9 | 18-1 | 18-4 | 18-7 | 18-11 | 19-2 | 19-5 | 19-7 | 19-9 |
| 475.00 | 19-6 | 19-10 | 20-1 | 20-5 | 20-9 | 21-0 | 21-4 | 21-8 | 21-10 | 22-0 |
| 500.00 | 21-7 | 21-11 | 22-4 | 22-8 | 23-0 | 23-4 | 23-8 | 24-0 | 24-3 | 24-5 |

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| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 |
| 275.00 | 6-10 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 |
| 300.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 |
| 325.00 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 |
| 350.00 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 |
| 375.00 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 |
| 400.00 | 14-5 | 14-6 | 14-8 | 14-9 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 |
| 425.00 | 16-3 | 16-5 | 16-7 | 16-8 | 16-10 | 17-0 | 17-2 | 17-4 | 17-5 | 17-7 |
| 450.00 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 |
| 475.00 | 20-4 | 20-6 | 20-8 | 20-10 | 21-1 | 21-3 | 21-5 | 21-7 | 21-10 | 22-0 |
| 500.00 | 22-6 | 22-9 | 22-11 | 23-2 | 23-4 | 23-7 | 23-9 | 23-11 | 24-2 | 24-4 |
| 525.00 | 24-10 | 25-1 | 25-3 | 25-6 | 25-9 | 26-0 | 26-2 | 26-5 | 26-8 | 26-10 |
| 550.00 | 27-3 | 27-6 | 27-9 | 28-0 | 28-3 | 28-6 | 28-9 | 29-0 | 29-3 | 29-6 |
| 575.00 | 29-9 | 30-1 | 30-4 | 30-7 | 30-11 | 31-2 | 31-5 | 31-9 | 32-0 | 32-3 |
| 600.00 | 32-5 | 32-9 | 33-1 | 33-4 | 33-8 | 33-11 | 34-3 | 34-6 | 34-10 | 35-1 |
| 625.00 | 35-2 | 35-6 | 35-10 | 36-2 | 36-6 | 36-10 | 37-2 | 37-6 | 37-10 | 38-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 |
| 275.00 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 |
| 300.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-10 |
| 325.00 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 |
| 350.00 | 11-1 | 11-3 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 |
| 375.00 | 12-9 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 | 13-6 | 13-7 | 13-8 | 13-9 |
| 400.00 | 14-6 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-4 | 15-6 | 15-7 | 15-8 |
| 425.00 | 16-5 | 16-7 | 16-8 | 16-10 | 17-0 | 17-2 | 17-4 | 17-6 | 17-7 | 17-8 |
| 450.00 | 18-5 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 | 19-10 |
| 475.00 | 20-6 | 20-8 | 20-11 | 21-1 | 21-3 | 21-5 | 21-8 | 21-10 | 22-0 | 22-1 |
| 500.00 | 22-8 | 22-11 | 23-2 | 23-4 | 23-7 | 23-9 | 24-0 | 24-2 | 24-4 | 24-6 |
| 525.00 | 25-0 | 25-3 | 25-6 | 25-9 | 26-0 | 26-3 | 26-5 | 26-8 | 26-10 | 27-0 |
| 550.00 | 27-6 | 27-9 | 28-0 | 28-3 | 28-6 | 28-9 | 29-1 | 29-4 | 29-6 | 29-8 |
| 575.00 | 30-1 | 30-4 | 30-8 | 30-11 | 31-2 | 31-6 | 31-9 | 32-0 | 32-3 | 32-5 |
| 600.00 | 32-9 | 33-1 | 33-4 | 33-8 | 34-0 | 34-3 | 34-7 | 34-11 | 35-1 | 35-4 |
| 625.00 | 35-6 | 35-10 | 36-3 | 36-7 | 36-11 | 37-3 | 37-7 | 37-10 | 38-1 | 38-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 0.93 | 2599 | 0.81 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 0.19 | 2930 | 0.16 | 3346 |
| 30 | 0 | 0 | 0 | 0.44 | 0.21 | 2582 | 0.18 | 3095 |
| 40 | 0 | 0 | 0 | 0.44 | 0.25 | 2238 | 0.19 | 2839 |
| 50 | 0 | 0 | 0 | 0.44 | 0.29 | 1902 | 0.21 | 2579 |
| 60 | 0 | 0 | 0 | 0.44 | 0.35 | 1579 | 0.24 | 2315 |
| 70 | 0 | 0 | 0 | 0.44 | 0.43 | 1279 | 0.27 | 2049 |
| 80 | 0 | 0 | 0 | 0.44 | 0.54 | 1017 | 0.31 | 1783 |
| 90 | 0 | 0 | 0 | 0.44 | 0.63 | 869 | 0.36 | 1520 |
| 100 | 0 | 0 | 0 | 0.44 | 0.68 | 804 | 0.43 | 1269 |
| 110 | 0 | 0 | 0 | 0.44 | 0.74 | 742 | 0.53 | 1040 |
| 120 | 0 | 0 | 0 | 0.44 | 0.8 | 686 | 0.65 | 846 |
| 130 | 0 | 0 | 0 | 0.44 | 0.87 | 634 | 0.79 | 696 |
| 167 | 0 | 0 | 0 | 0.44 | 1.14 | 484 | 1.12 | 493 |
| 212 | 0 | 0 | 0 | 0.44 | 1.47 | 374 | 1.45 | 379 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 3.3 | 2942 | 3.24 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 1.16 | 1900 | 1.02 | 2156 |
| 30 | 0 | 0 | 0 | 0.44 | 1.34 | 1643 | 1.14 | 1927 |
| 40 | 0 | 0 | 0 | 0.44 | 1.55 | 1420 | 1.29 | 1710 |
| 50 | 0 | 0 | 0 | 0.44 | 1.78 | 1235 | 1.46 | 1511 |
| 60 | 0 | 0 | 0 | 0.44 | 2.03 | 1085 | 1.65 | 1333 |
| 70 | 0 | 0 | 0 | 0.44 | 2.28 | 966 | 1.86 | 1181 |
| 80 | 0 | 0 | 0 | 0.44 | 2.52 | 872 | 2.09 | 1053 |
| 90 | 0 | 0 | 0 | 0.44 | 2.76 | 796 | 2.32 | 949 |
| 100 | 0 | 0 | 0 | 0.44 | 2.96 | 744 | 2.55 | 863 |
| 110 | 0 | 0 | 0 | 0.44 | 3.08 | 716 | 2.78 | 793 |
| 120 | 0 | 0 | 0 | 0.44 | 3.2 | 689 | 3 | 735 |
| 130 | 0 | 0 | 0 | 0.44 | 3.32 | 664 | 3.21 | 686 |
| 167 | 0 | 0 | 0 | 0.44 | 3.75 | 588 | 3.74 | 589 |
| 212 | 0 | 0 | 0 | 0.44 | 4.25 | 519 | 4.25 | 519 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 7.29 | 3000 | 7.29 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 4.73 | 1047 | 4.39 | 1128 |
| 30 | 0 | 0 | 0 | 0.44 | 5.04 | 983 | 4.68 | 1058 |
| 40 | 0 | 0 | 0 | 0.44 | 5.34 | 929 | 4.97 | 997 |
| 50 | 0 | 0 | 0 | 0.44 | 5.62 | 882 | 5.25 | 944 |
| 60 | 0 | 0 | 0 | 0.44 | 5.9 | 840 | 5.53 | 897 |
| 70 | 0 | 0 | 0 | 0.44 | 6.17 | 803 | 5.8 | 855 |
| 80 | 0 | 0 | 0 | 0.44 | 6.43 | 771 | 6.06 | 819 |
| 90 | 0 | 0 | 0 | 0.44 | 6.69 | 742 | 6.31 | 786 |
| 100 | 0 | 0 | 0 | 0.44 | 6.94 | 715 | 6.56 | 756 |
| 110 | 0 | 0 | 0 | 0.44 | 7.09 | 699 | 6.8 | 729 |
| 120 | 0 | 0 | 0 | 0.44 | 7.24 | 686 | 7.04 | 705 |
| 130 | 0 | 0 | 0 | 0.44 | 7.38 | 672 | 7.27 | 683 |
| 167 | 0 | 0 | 0 | 0.44 | 7.89 | 629 | 7.89 | 629 |
| 212 | 0 | 0 | 0 | 0.44 | 8.49 | 585 | 8.49 | 585 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 12.99 | 3000 | 12.99 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 10.5 | 841 | 10.14 | 870 |
| 30 | 0 | 0 | 0 | 0.44 | 10.78 | 819 | 10.42 | 847 |
| 40 | 0 | 0 | 0 | 0.44 | 11.06 | 798 | 10.7 | 825 |
| 50 | 0 | 0 | 0 | 0.44 | 11.33 | 779 | 10.97 | 805 |
| 60 | 0 | 0 | 0 | 0.44 | 11.6 | 761 | 11.23 | 786 |
| 70 | 0 | 0 | 0 | 0.44 | 11.87 | 744 | 11.49 | 768 |
| 80 | 0 | 0 | 0 | 0.44 | 12.12 | 729 | 11.75 | 752 |
| 90 | 0 | 0 | 0 | 0.44 | 12.38 | 714 | 12 | 736 |
| 100 | 0 | 0 | 0 | 0.44 | 12.62 | 700 | 12.24 | 721 |
| 110 | 0 | 0 | 0 | 0.44 | 12.78 | 692 | 12.49 | 707 |
| 120 | 0 | 0 | 0 | 0.44 | 12.93 | 683 | 12.73 | 694 |
| 130 | 0 | 0 | 0 | 0.44 | 13.08 | 676 | 12.96 | 682 |
| 167 | 0 | 0 | 0 | 0.44 | 13.63 | 648 | 13.63 | 649 |
| 212 | 0 | 0 | 0 | 0.44 | 14.28 | 619 | 14.28 | 619 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.941 | 20.35 | 3000 | 20.35 | 3000* |
| 20 | 0 | 0 | 0 | 0.44 | 17.9 | 772 | 17.55 | 787 |
| 30 | 0 | 0 | 0 | 0.44 | 18.17 | 761 | 17.82 | 776 |
| 40 | 0 | 0 | 0 | 0.44 | 18.44 | 750 | 18.08 | 764 |
| 50 | 0 | 0 | 0 | 0.44 | 18.7 | 739 | 18.34 | 754 |
| 60 | 0 | 0 | 0 | 0.44 | 18.96 | 729 | 18.6 | 743 |
| 70 | 0 | 0 | 0 | 0.44 | 19.22 | 720 | 18.85 | 734 |
| 80 | 0 | 0 | 0 | 0.44 | 19.48 | 710 | 19.1 | 724 |
| 90 | 0 | 0 | 0 | 0.44 | 19.73 | 701 | 19.35 | 715 |
| 100 | 0 | 0 | 0 | 0.44 | 19.97 | 693 | 19.6 | 706 |
| 110 | 0 | 0 | 0 | 0.44 | 20.13 | 688 | 19.84 | 697 |
| 120 | 0 | 0 | 0 | 0.44 | 20.29 | 682 | 20.08 | 689 |
| 130 | 0 | 0 | 0 | 0.44 | 20.44 | 677 | 20.32 | 681 |
| 167 | 0 | 0 | 0 | 0.44 | 21.01 | 659 | 21.01 | 659 |
| 212 | 0 | 0 | 0 | 0.44 | 21.69 | 639 | 21.69 | 639 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 |
| 200.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-9 | 2-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 1-0 | 1-3 | 1-5 | 1-6 | 1-8 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 1-11 | 2-1 | 2-3 |
| 200.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-6 | 2-9 | 3-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 |
| 200.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 |
| 225.00 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 |
| 250.00 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 |
| 150.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-9 |
| 175.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 |
| 200.00 | 1-2 | 1-4 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 2-11 | 3-1 |
| 225.00 | 1-6 | 1-8 | 2-0 | 2-3 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 | 3-11 |
| 250.00 | 1-10 | 2-1 | 2-5 | 2-9 | 3-2 | 3-7 | 3-11 | 4-4 | 4-7 | 4-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 |
| 175.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 200.00 | 1-11 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 |
| 225.00 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 |
| 250.00 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 |
| 275.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 |
| 300.00 | 4-5 | 4-8 | 5-0 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 |
| 325.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 | 8-0 |
| 350.00 | 6-0 | 6-5 | 6-9 | 7-2 | 7-6 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 |
| 375.00 | 6-10 | 7-4 | 7-9 | 8-3 | 8-8 | 9-1 | 9-6 | 9-10 | 10-3 | 10-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 |
| 175.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 |
| 225.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 |
| 250.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 4-11 |
| 275.00 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 |
| 300.00 | 4-9 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-1 |
| 325.00 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 | 8-2 | 8-4 |
| 350.00 | 6-5 | 6-10 | 7-3 | 7-8 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-8 |
| 375.00 | 7-5 | 7-11 | 8-4 | 8-9 | 9-3 | 9-8 | 10-1 | 10-5 | 10-10 | 11-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 225.00 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 |
| 250.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 275.00 | 4-10 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 | 5-11 |
| 300.00 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 | 7-0 |
| 325.00 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 |
| 350.00 | 7-9 | 8-0 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 | 9-2 | 9-4 | 9-7 |
| 375.00 | 8-11 | 9-2 | 9-5 | 9-8 | 9-10 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 |
| 400.00 | 10-2 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 |
| 425.00 | 11-5 | 11-9 | 12-1 | 12-5 | 12-8 | 13-0 | 13-3 | 13-7 | 13-10 | 14-1 |
| 450.00 | 12-10 | 13-2 | 13-7 | 13-11 | 14-3 | 14-7 | 14-10 | 15-2 | 15-6 | 15-10 |
| 475.00 | 14-4 | 14-8 | 15-1 | 15-6 | 15-10 | 16-3 | 16-7 | 16-11 | 17-3 | 17-7 |
| 500.00 | 15-10 | 16-4 | 16-9 | 17-2 | 17-7 | 18-0 | 18-4 | 18-9 | 19-2 | 19-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-2 |
| 225.00 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 |
| 250.00 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 |
| 275.00 | 5-0 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-0 |
| 300.00 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 |
| 325.00 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-5 |
| 350.00 | 8-0 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-6 | 9-8 | 9-9 |
| 375.00 | 9-3 | 9-6 | 9-9 | 10-0 | 10-2 | 10-5 | 10-8 | 10-11 | 11-1 | 11-3 |
| 400.00 | 10-6 | 10-9 | 11-1 | 11-4 | 11-7 | 11-10 | 12-1 | 12-5 | 12-7 | 12-9 |
| 425.00 | 11-10 | 12-2 | 12-6 | 12-10 | 13-1 | 13-5 | 13-8 | 14-0 | 14-3 | 14-5 |
| 450.00 | 13-3 | 13-8 | 14-0 | 14-4 | 14-8 | 15-0 | 15-4 | 15-8 | 16-0 | 16-2 |
| 475.00 | 14-10 | 15-3 | 15-7 | 16-0 | 16-4 | 16-9 | 17-1 | 17-6 | 17-10 | 18-0 |
| 500.00 | 16-5 | 16-10 | 17-4 | 17-9 | 18-2 | 18-7 | 18-11 | 19-4 | 19-9 | 20-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 |
| 275.00 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 300.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 |
| 325.00 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 |
| 350.00 | 8-7 | 8-9 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 |
| 375.00 | 9-10 | 10-0 | 10-2 | 10-4 | 10-5 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 |
| 400.00 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 |
| 425.00 | 12-8 | 12-10 | 13-1 | 13-3 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 | 14-4 |
| 450.00 | 14-3 | 14-5 | 14-8 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-10 | 16-1 |
| 475.00 | 15-10 | 16-1 | 16-4 | 16-7 | 16-9 | 17-0 | 17-3 | 17-6 | 17-8 | 17-11 |
| 500.00 | 17-7 | 17-10 | 18-1 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 |
| 525.00 | 19-4 | 19-8 | 19-11 | 20-3 | 20-6 | 20-9 | 21-1 | 21-4 | 21-7 | 21-11 |
| 550.00 | 21-3 | 21-7 | 21-11 | 22-2 | 22-6 | 22-10 | 23-1 | 23-5 | 23-9 | 24-0 |
| 575.00 | 23-3 | 23-7 | 23-11 | 24-3 | 24-7 | 24-11 | 25-3 | 25-7 | 25-11 | 26-3 |
| 600.00 | 25-4 | 25-8 | 26-1 | 26-5 | 26-10 | 27-2 | 27-6 | 27-11 | 28-3 | 28-7 |
| 625.00 | 27-5 | 27-10 | 28-3 | 28-8 | 29-1 | 29-6 | 29-11 | 30-3 | 30-8 | 31-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 |
| 275.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 |
| 300.00 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 |
| 325.00 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 |
| 350.00 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 |
| 375.00 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-10 | 10-11 | 11-1 | 11-3 | 11-4 |
| 400.00 | 11-5 | 11-7 | 11-10 | 12-0 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-10 |
| 425.00 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 | 14-3 | 14-5 | 14-6 |
| 450.00 | 14-6 | 14-9 | 14-11 | 15-2 | 15-4 | 15-7 | 15-9 | 16-0 | 16-2 | 16-4 |
| 475.00 | 16-2 | 16-5 | 16-8 | 16-11 | 17-1 | 17-4 | 17-7 | 17-10 | 18-0 | 18-2 |
| 500.00 | 17-11 | 18-2 | 18-5 | 18-8 | 19-0 | 19-3 | 19-6 | 19-9 | 20-0 | 20-2 |
| 525.00 | 19-9 | 20-0 | 20-4 | 20-7 | 20-11 | 21-2 | 21-6 | 21-9 | 22-0 | 22-2 |
| 550.00 | 21-8 | 22-0 | 22-4 | 22-8 | 22-11 | 23-3 | 23-7 | 23-11 | 24-2 | 24-4 |
| 575.00 | 23-8 | 24-1 | 24-5 | 24-9 | 25-1 | 25-5 | 25-9 | 26-1 | 26-5 | 26-8 |
| 600.00 | 25-10 | 26-2 | 26-7 | 26-11 | 27-4 | 27-8 | 28-1 | 28-5 | 28-9 | 29-0 |
| 625.00 | 28-0 | 28-5 | 28-10 | 29-3 | 29-8 | 30-1 | 30-6 | 30-10 | 31-3 | 31-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 2.43 | 1000 | 2.43 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 2.05 | 269 | 2 | 275 |
| 30 | 0 | 0 | 0 | 0.44 | 2.33 | 236 | 2.31 | 239 |
| 40 | 0 | 0 | 0 | 0.44 | 2.42 | 228 | 2.39 | 231 |
| 50 | 0 | 0 | 0 | 0.44 | 2.5 | 221 | 2.47 | 224 |
| 60 | 0 | 0 | 0 | 0.44 | 2.58 | 214 | 2.54 | 217 |
| 70 | 0 | 0 | 0 | 0.44 | 2.64 | 209 | 2.62 | 211 |
| 80 | 0 | 0 | 0 | 0.44 | 2.69 | 205 | 2.69 | 205 |
| 90 | 0 | 0 | 0 | 0.44 | 2.73 | 202 | 2.73 | 202 |
| 100 | 0 | 0 | 0 | 0.44 | 2.78 | 198 | 2.78 | 198 |
| 110 | 0 | 0 | 0 | 0.44 | 2.83 | 195 | 2.83 | 195 |
| 120 | 0 | 0 | 0 | 0.44 | 2.87 | 192 | 2.87 | 192 |
| 130 | 0 | 0 | 0 | 0.44 | 2.92 | 189 | 2.92 | 189 |
| 167 | 0 | 0 | 0 | 0.44 | 3.08 | 179 | 3.08 | 179 |
| 212 | 0 | 0 | 0 | 0.44 | 3.27 | 169 | 3.27 | 169 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 9.8 | 1000 | 9.8 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 9.42 | 236 | 9.38 | 237 |
| 30 | 0 | 0 | 0 | 0.44 | 9.7 | 229 | 9.67 | 230 |
| 40 | 0 | 0 | 0 | 0.44 | 9.78 | 227 | 9.75 | 228 |
| 50 | 0 | 0 | 0 | 0.44 | 9.86 | 225 | 9.83 | 226 |
| 60 | 0 | 0 | 0 | 0.44 | 9.95 | 223 | 9.91 | 224 |
| 70 | 0 | 0 | 0 | 0.44 | 10.01 | 222 | 9.99 | 222 |
| 80 | 0 | 0 | 0 | 0.44 | 10.07 | 221 | 10.07 | 221 |
| 90 | 0 | 0 | 0 | 0.44 | 10.12 | 220 | 10.12 | 220 |
| 100 | 0 | 0 | 0 | 0.44 | 10.18 | 218 | 10.18 | 218 |
| 110 | 0 | 0 | 0 | 0.44 | 10.23 | 217 | 10.23 | 217 |
| 120 | 0 | 0 | 0 | 0.44 | 10.28 | 216 | 10.28 | 216 |
| 130 | 0 | 0 | 0 | 0.44 | 10.33 | 215 | 10.33 | 215 |
| 167 | 0 | 0 | 0 | 0.44 | 10.52 | 211 | 10.52 | 211 |
| 212 | 0 | 0 | 0 | 0.44 | 10.75 | 207 | 10.75 | 207 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.320

TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 22.32 | 1000 | 22.32 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 21.95 | 230 | 21.9 | 231 |
| 30 | 0 | 0 | 0 | 0.44 | 22.22 | 228 | 22.19 | 228 |
| 40 | 0 | 0 | 0 | 0.44 | 22.3 | 227 | 22.27 | 227 |
| 50 | 0 | 0 | 0 | 0.44 | 22.38 | 226 | 22.35 | 226 |
| 60 | 0 | 0 | 0 | 0.44 | 22.47 | 225 | 22.43 | 226 |
| 70 | 0 | 0 | 0 | 0.44 | 22.54 | 225 | 22.51 | 225 |
| 80 | 0 | 0 | 0 | 0.44 | 22.59 | 224 | 22.59 | 224 |
| 90 | 0 | 0 | 0 | 0.44 | 22.65 | 224 | 22.65 | 224 |
| 100 | 0 | 0 | 0 | 0.44 | 22.7 | 223 | 22.7 | 223 |
| 110 | 0 | 0 | 0 | 0.44 | 22.76 | 223 | 22.76 | 223 |
| 120 | 0 | 0 | 0 | 0.44 | 22.81 | 222 | 22.81 | 222 |
| 130 | 0 | 0 | 0 | 0.44 | 22.86 | 222 | 22.86 | 222 |
| 167 | 0 | 0 | 0 | 0.44 | 23.06 | 220 | 23.06 | 220 |
| 212 | 0 | 0 | 0 | 0.44 | 23.3 | 218 | 23.3 | 218 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 40.4 | 1000 | 40.4 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 40.03 | 229 | 39.99 | 229 |
| 30 | 0 | 0 | 0 | 0.44 | 40.3 | 227 | 40.27 | 227 |
| 40 | 0 | 0 | 0 | 0.44 | 40.39 | 227 | 40.35 | 227 |
| 50 | 0 | 0 | 0 | 0.44 | 40.47 | 226 | 40.43 | 227 |
| 60 | 0 | 0 | 0 | 0.44 | 40.55 | 226 | 40.52 | 226 |
| 70 | 0 | 0 | 0 | 0.44 | 40.62 | 226 | 40.6 | 226 |
| 80 | 0 | 0 | 0 | 0.44 | 40.68 | 225 | 40.68 | 225 |
| 90 | 0 | 0 | 0 | 0.44 | 40.73 | 225 | 40.73 | 225 |
| 100 | 0 | 0 | 0 | 0.44 | 40.79 | 225 | 40.79 | 225 |
| 110 | 0 | 0 | 0 | 0.44 | 40.84 | 224 | 40.84 | 224 |
| 120 | 0 | 0 | 0 | 0.44 | 40.9 | 224 | 40.9 | 224 |
| 130 | 0 | 0 | 0 | 0.44 | 40.95 | 224 | 40.95 | 224 |
| 167 | 0 | 0 | 0 | 0.44 | 41.15 | 223 | 41.15 | 223 |
| 212 | 0 | 0 | 0 | 0.44 | 41.4 | 222 | 41.4 | 222 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 64.73 | 1000 | 64.73 | 1000* |
| 0 | 0 | 0 | 0 | 0.44 | 64.36 | 228 | 64.32 | 228 |
| 30 | 0 | 0 | 0 | 0.44 | 64.63 | 227 | 64.6 | 227 |
| 40 | 0 | 0 | 0 | 0.44 | 64.72 | 227 | 64.68 | 227 |
| 50 | 0 | 0 | 0 | 0.44 | 64.8 | 227 | 64.76 | 227 |
| 60 | 0 | 0 | 0 | 0.44 | 64.88 | 226 | 64.84 | 226 |
| 70 | 0 | 0 | 0 | 0.44 | 64.95 | 226 | 64.92 | 226 |
| 80 | 0 | 0 | 0 | 0.44 | 65.01 | 226 | 65 | 226 |
| 90 | 0 | 0 | 0 | 0.44 | 65.06 | 226 | 65.06 | 226 |
| 100 | 0 | 0 | 0 | 0.44 | 65.12 | 226 | 65.12 | 226 |
| 110 | 0 | 0 | 0 | 0.44 | 65.17 | 225 | 65.17 | 225 |
| 120 | 0 | 0 | 0 | 0.44 | 65.23 | 225 | 65.23 | 225 |
| 130 | 0 | 0 | 0 | 0.44 | 65.28 | 225 | 65.28 | 225 |
| 167 | 0 | 0 | 0 | 0.44 | 65.48 | 224 | 65.48 | 224 |
| 212 | 0 | 0 | 0 | 0.44 | 65.73 | 224 | 65.73 | 224 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 |
| 100.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 |
| 125.00 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 150.00 | 5-0 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-3 | 6-4 |
| 175.00 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-6 | 8-8 |
| 200.00 | 8-11 | 9-3 | 9-7 | 9-11 | 10-2 | 10-6 | 10-9 | 11-0 | 11-2 | 11-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 |
| 100.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 |
| 125.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 150.00 | 5-1 | 5-3 | 5-5 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-4 |
| 175.00 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 |
| 200.00 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-7 | 10-9 | 11-0 | 11-2 | 11-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 |
| 125.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 |
| 150.00 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 |
| 175.00 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 |
| 200.00 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 |
| 225.00 | 12-2 | 12-3 | 12-4 | 12-5 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 |
| 250.00 | 15-0 | 15-2 | 15-3 | 15-5 | 15-6 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 |
| 125.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 |
| 150.00 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 |
| 175.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 |
| 200.00 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 |
| 225.00 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 |
| 250.00 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-6 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 |
| 175.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 |
| 200.00 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 |
| 225.00 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 |
| 250.00 | 15-4 | 15-5 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 |
| 275.00 | 18-7 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-0 | 19-1 | 19-1 |
| 300.00 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-8 | 22-9 |
| 325.00 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-7 | 26-7 | 26-8 | 26-9 |
| 350.00 | 30-2 | 30-3 | 30-5 | 30-6 | 30-7 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 |
| 375.00 | 34-8 | 34-10 | 34-11 | 35-1 | 35-2 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 |
| 175.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 | 7-8 |
| 200.00 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 |
| 225.00 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 |
| 250.00 | 15-4 | 15-5 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 |
| 275.00 | 18-7 | 18-8 | 18-9 | 18-9 | 18-10 | 18-11 | 19-0 | 19-0 | 19-1 | 19-1 |
| 300.00 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-6 | 22-7 | 22-8 | 22-8 | 22-9 |
| 325.00 | 26-0 | 26-1 | 26-2 | 26-4 | 26-5 | 26-6 | 26-7 | 26-7 | 26-8 | 26-9 |
| 350.00 | 30-2 | 30-4 | 30-5 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 |
| 375.00 | 34-9 | 34-10 | 35-0 | 35-1 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.325

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-11 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 |
| 225.00 | 12-7 | 12-8 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-9 | 12-10 |
| 250.00 | 15-7 | 15-7 | 15-8 | 15-8 | 15-8 | 15-9 | 15-9 | 15-9 | 15-10 | 15-10 |
| 275.00 | 18-10 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-1 | 19-1 | 19-2 | 19-2 |
| 300.00 | 22-6 | 22-6 | 22-7 | 22-7 | 22-8 | 22-8 | 22-9 | 22-9 | 22-10 | 22-10 |
| 325.00 | 26-5 | 26-6 | 26-6 | 26-7 | 26-8 | 26-8 | 26-9 | 26-9 | 26-10 | 26-10 |
| 350.00 | 30-8 | 30-9 | 30-10 | 30-10 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 | 31-2 |
| 375.00 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-7 | 35-8 | 35-9 | 35-9 | 35-10 |
| 400.00 | 40-2 | 40-3 | 40-4 | 40-5 | 40-6 | 40-7 | 40-8 | 40-9 | 40-9 | 40-10 |
| 425.00 | 45-5 | 45-7 | 45-8 | 45-9 | 45-10 | 45-11 | 46-0 | 46-1 | 46-2 | 46-2 |
| 450.00 | 51-0 | 51-2 | 51-3 | 51-4 | 51-5 | 51-7 | 51-8 | 51-9 | 51-10 | 51-11 |
| 475.00 | 57-0 | 57-1 | 57-3 | 57-4 | 57-5 | 57-7 | 57-8 | 57-9 | 57-10 | 57-11 |
| 500.00 | 63-3 | 63-5 | 63-6 | 63-8 | 63-9 | 63-11 | 64-0 | 64-2 | 64-3 | 64-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-11 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 |
| 225.00 | 12-7 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-9 | 12-9 | 12-10 |
| 250.00 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 | 15-9 | 15-9 | 15-10 | 15-10 |
| 275.00 | 18-11 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-1 | 19-1 | 19-2 | 19-2 |
| 300.00 | 22-6 | 22-6 | 22-7 | 22-8 | 22-8 | 22-9 | 22-9 | 22-9 | 22-10 | 22-10 |
| 325.00 | 26-5 | 26-6 | 26-6 | 26-7 | 26-8 | 26-8 | 26-9 | 26-9 | 26-10 | 26-10 |
| 350.00 | 30-8 | 30-9 | 30-10 | 30-11 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 | 31-2 |
| 375.00 | 35-4 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-8 | 35-9 | 35-9 | 35-10 |
| 400.00 | 40-3 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 | 40-8 | 40-9 | 40-9 | 40-10 |
| 425.00 | 45-6 | 45-7 | 45-8 | 45-9 | 45-10 | 45-11 | 46-0 | 46-1 | 46-2 | 46-2 |
| 450.00 | 51-1 | 51-2 | 51-4 | 51-5 | 51-6 | 51-7 | 51-8 | 51-9 | 51-10 | 51-11 |
| 475.00 | 57-0 | 57-2 | 57-3 | 57-5 | 57-6 | 57-7 | 57-8 | 57-9 | 57-10 | 57-11 |
| 500.00 | 63-4 | 63-5 | 63-7 | 63-8 | 63-10 | 63-11 | 64-0 | 64-2 | 64-3 | 64-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-10 | 15-11 | 15-11 | 15-11 | 15-11 | 16-0 | 16-0 | 16-0 | 16-0 | 16-0 |
| 275.00 | 19-3 | 19-3 | 19-3 | 19-4 | 19-4 | 19-4 | 19-4 | 19-5 | 19-5 | 19-5 |
| 300.00 | 22-11 | 22-11 | 23-0 | 23-0 | 23-0 | 23-1 | 23-1 | 23-1 | 23-1 | 23-2 |
| 325.00 | 26-11 | 27-0 | 27-0 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 | 27-2 | 27-2 |
| 350.00 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-6 | 31-6 | 31-6 | 31-7 | 31-7 |
| 375.00 | 35-11 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 | 36-3 | 36-3 | 36-4 |
| 400.00 | 41-0 | 41-0 | 41-1 | 41-2 | 41-2 | 41-3 | 41-3 | 41-4 | 41-4 | 41-5 |
| 425.00 | 46-4 | 46-5 | 46-6 | 46-6 | 46-7 | 46-8 | 46-8 | 46-9 | 46-9 | 46-10 |
| 450.00 | 52-1 | 52-1 | 52-2 | 52-3 | 52-4 | 52-4 | 52-5 | 52-6 | 52-6 | 52-7 |
| 475.00 | 58-1 | 58-2 | 58-3 | 58-4 | 58-5 | 58-6 | 58-7 | 58-7 | 58-8 | 58-8 |
| 500.00 | 64-6 | 64-7 | 64-8 | 64-9 | 64-10 | 64-11 | 65-0 | 65-1 | 65-1 | 65-2 |
| 525.00 | 71-3 | 71-5 | 71-6 | 71-7 | 71-8 | 71-9 | 71-10 | 71-11 | 71-11 | 72-0 |
| 550.00 | 78-5 | 78-6 | 78-7 | 78-9 | 78-10 | 78-11 | 79-0 | 79-1 | 79-2 | 79-3 |
| 575.00 | 85-11 | 86-0 | 86-2 | 86-3 | 86-4 | 86-5 | 86-7 | 86-8 | 86-9 | 86-10 |
| 600.00 | 93-9 | 93-11 | 94-0 | 94-2 | 94-3 | 94-5 | 94-6 | 94-7 | 94-8 | 94-9 |
| 625.00 | 102-0 | 102-2 | 102-3 | 102-5 | 102-7 | 102-8 | 102-10 | 102-11 | 103-0 | 103-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-11 | 15-11 | 15-11 | 15-11 | 16-0 | 16-0 | 16-0 | 16-0 | 16-0 | 16-0 |
| 275.00 | 19-3 | 19-3 | 19-3 | 19-4 | 19-4 | 19-4 | 19-4 | 19-5 | 19-5 | 19-5 |
| 300.00 | 22-11 | 22-11 | 23-0 | 23-0 | 23-0 | 23-1 | 23-1 | 23-1 | 23-1 | 23-2 |
| 325.00 | 26-11 | 27-0 | 27-0 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 | 27-2 | 27-2 |
| 350.00 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-6 | 31-6 | 31-6 | 31-7 | 31-7 |
| 375.00 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 | 36-3 | 36-3 | 36-4 |
| 400.00 | 41-0 | 41-1 | 41-1 | 41-2 | 41-2 | 41-3 | 41-3 | 41-4 | 41-4 | 41-5 |
| 425.00 | 46-4 | 46-5 | 46-6 | 46-6 | 46-7 | 46-8 | 46-8 | 46-9 | 46-9 | 46-10 |
| 450.00 | 52-1 | 52-2 | 52-2 | 52-3 | 52-4 | 52-5 | 52-5 | 52-6 | 52-6 | 52-7 |
| 475.00 | 58-2 | 58-3 | 58-3 | 58-4 | 58-5 | 58-6 | 58-7 | 58-7 | 58-8 | 58-8 |
| 500.00 | 64-7 | 64-8 | 64-9 | 64-10 | 64-11 | 64-11 | 65-0 | 65-1 | 65-1 | 65-2 |
| 525.00 | 71-4 | 71-5 | 71-6 | 71-7 | 71-8 | 71-9 | 71-10 | 71-11 | 71-11 | 72-0 |
| 550.00 | 78-5 | 78-7 | 78-8 | 78-9 | 78-10 | 78-11 | 79-0 | 79-1 | 79-2 | 79-3 |
| 575.00 | 85-11 | 86-1 | 86-2 | 86-3 | 86-5 | 86-6 | 86-7 | 86-8 | 86-9 | 86-10 |
| 600.00 | 93-10 | 93-11 | 94-1 | 94-2 | 94-4 | 94-5 | 94-6 | 94-7 | 94-8 | 94-9 |
| 625.00 | 102-1 | 102-2 | 102-4 | 102-6 | 102-7 | 102-9 | 102-10 | 102-11 | 103-0 | 103-1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 1.62 | 1500 | 1.62 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 0.9 | 612 | 0.84 | 651 |
| 30 | 0 | 0 | 0 | 0.44 | 1.34 | 411 | 1.27 | 435 |
| 40 | 0 | 0 | 0 | 0.44 | 1.47 | 375 | 1.39 | 395 |
| 50 | 0 | 0 | 0 | 0.44 | 1.59 | 346 | 1.51 | 363 |
| 60 | 0 | 0 | 0 | 0.44 | 1.7 | 323 | 1.63 | 338 |
| 70 | 0 | 0 | 0 | 0.44 | 1.81 | 305 | 1.74 | 317 |
| 80 | 0 | 0 | 0 | 0.44 | 1.87 | 294 | 1.84 | 299 |
| 90 | 0 | 0 | 0 | 0.44 | 1.94 | 284 | 1.94 | 284 |
| 100 | 0 | 0 | 0 | 0.44 | 2 | 275 | 2 | 275 |
| 110 | 0 | 0 | 0 | 0.44 | 2.06 | 267 | 2.06 | 267 |
| 120 | 0 | 0 | 0 | 0.44 | 2.12 | 260 | 2.12 | 260 |
| 130 | 0 | 0 | 0 | 0.44 | 2.18 | 253 | 2.18 | 253 |
| 167 | 0 | 0 | 0 | 0.44 | 2.38 | 231 | 2.38 | 231 |
| 212 | 0 | 0 | 0 | 0.44 | 2.62 | 211 | 2.62 | 211 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 6.5 | 1500 | 6.5 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 5.82 | 379 | 5.73 | 385 |
| 30 | 0 | 0 | 0 | 0.44 | 6.21 | 355 | 6.14 | 360 |
| 40 | 0 | 0 | 0 | 0.44 | 6.34 | 348 | 6.27 | 352 |
| 50 | 0 | 0 | 0 | 0.44 | 6.46 | 342 | 6.39 | 346 |
| 60 | 0 | 0 | 0 | 0.44 | 6.59 | 335 | 6.51 | 340 |
| 70 | 0 | 0 | 0 | 0.44 | 6.71 | 330 | 6.62 | 334 |
| 80 | 0 | 0 | 0 | 0.44 | 6.79 | 325 | 6.74 | 328 |
| 90 | 0 | 0 | 0 | 0.44 | 6.87 | 322 | 6.85 | 322 |
| 100 | 0 | 0 | 0 | 0.44 | 6.95 | 318 | 6.95 | 318 |
| 110 | 0 | 0 | 0 | 0.44 | 7.02 | 315 | 7.02 | 315 |
| 120 | 0 | 0 | 0 | 0.44 | 7.1 | 312 | 7.1 | 312 |
| 130 | 0 | 0 | 0 | 0.44 | 7.17 | 308 | 7.17 | 308 |
| 167 | 0 | 0 | 0 | 0.44 | 7.44 | 298 | 7.44 | 298 |
| 212 | 0 | 0 | 0 | 0.44 | 7.75 | 286 | 7.75 | 286 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 14.69 | 1500 | 14.69 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 14.03 | 356 | 13.94 | 358 |
| 30 | 0 | 0 | 0 | 0.44 | 14.41 | 347 | 14.34 | 348 |
| 40 | 0 | 0 | 0 | 0.44 | 14.54 | 344 | 14.46 | 345 |
| 50 | 0 | 0 | 0 | 0.44 | 14.66 | 341 | 14.58 | 343 |
| 60 | 0 | 0 | 0 | 0.44 | 14.79 | 338 | 14.7 | 340 |
| 70 | 0 | 0 | 0 | 0.44 | 14.91 | 335 | 14.82 | 337 |
| 80 | 0 | 0 | 0 | 0.44 | 15 | 333 | 14.94 | 335 |
| 90 | 0 | 0 | 0 | 0.44 | 15.08 | 332 | 15.06 | 332 |
| 100 | 0 | 0 | 0 | 0.44 | 15.16 | 330 | 15.16 | 330 |
| 110 | 0 | 0 | 0 | 0.44 | 15.24 | 328 | 15.24 | 328 |
| 120 | 0 | 0 | 0 | 0.44 | 15.32 | 326 | 15.32 | 326 |
| 130 | 0 | 0 | 0 | 0.44 | 15.4 | 325 | 15.4 | 325 |
| 167 | 0 | 0 | 0 | 0.44 | 15.69 | 319 | 15.69 | 319 |
| 212 | 0 | 0 | 0 | 0.44 | 16.03 | 312 | 16.03 | 312 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 26.32 | 1500 | 26.32 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 25.66 | 349 | 25.57 | 350 |
| 30 | 0 | 0 | 0 | 0.44 | 26.04 | 344 | 25.97 | 345 |
| 40 | 0 | 0 | 0 | 0.44 | 26.17 | 342 | 26.09 | 343 |
| 50 | 0 | 0 | 0 | 0.44 | 26.29 | 341 | 26.21 | 341 |
| 60 | 0 | 0 | 0 | 0.44 | 26.42 | 339 | 26.33 | 340 |
| 70 | 0 | 0 | 0 | 0.44 | 26.54 | 337 | 26.45 | 338 |
| 80 | 0 | 0 | 0 | 0.44 | 26.64 | 336 | 26.57 | 337 |
| 90 | 0 | 0 | 0 | 0.44 | 26.72 | 335 | 26.69 | 336 |
| 100 | 0 | 0 | 0 | 0.44 | 26.8 | 334 | 26.8 | 334 |
| 110 | 0 | 0 | 0 | 0.44 | 26.88 | 333 | 26.88 | 333 |
| 120 | 0 | 0 | 0 | 0.44 | 26.96 | 332 | 26.96 | 332 |
| 130 | 0 | 0 | 0 | 0.44 | 27.04 | 331 | 27.04 | 331 |
| 167 | 0 | 0 | 0 | 0.44 | 27.34 | 328 | 27.34 | 328 |
| 212 | 0 | 0 | 0 | 0.44 | 27.69 | 324 | 27.69 | 324 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 41.55 | 1500 | 41.55 | 1500* |
| 0 | 0 | 0 | 0 | 0.44 | 40.89 | 345 | 40.8 | 346 |
| 30 | 0 | 0 | 0 | 0.44 | 41.27 | 342 | 41.2 | 343 |
| 40 | 0 | 0 | 0 | 0.44 | 41.39 | 341 | 41.32 | 342 |
| 50 | 0 | 0 | 0 | 0.44 | 41.52 | 340 | 41.44 | 341 |
| 60 | 0 | 0 | 0 | 0.44 | 41.64 | 339 | 41.56 | 340 |
| 70 | 0 | 0 | 0 | 0.44 | 41.76 | 338 | 41.68 | 339 |
| 80 | 0 | 0 | 0 | 0.44 | 41.86 | 338 | 41.8 | 338 |
| 90 | 0 | 0 | 0 | 0.44 | 41.94 | 337 | 41.92 | 337 |
| 100 | 0 | 0 | 0 | 0.44 | 42.03 | 336 | 42.03 | 336 |
| 110 | 0 | 0 | 0 | 0.44 | 42.11 | 336 | 42.11 | 336 |
| 120 | 0 | 0 | 0 | 0.44 | 42.19 | 335 | 42.19 | 335 |
| 130 | 0 | 0 | 0 | 0.44 | 42.27 | 335 | 42.27 | 335 |
| 167 | 0 | 0 | 0 | 0.44 | 42.57 | 332 | 42.57 | 332 |
| 212 | 0 | 0 | 0 | 0.44 | 42.94 | 330 | 42.94 | 330 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 125.00 | 1-9 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 |
| 150.00 | 2-7 | 2-10 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 |
| 175.00 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-2 | 6-4 |
| 200.00 | 4-6 | 5-1 | 5-7 | 6-1 | 6-6 | 7-0 | 7-5 | 7-9 | 8-0 | 8-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-2 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 |
| 125.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 |
| 150.00 | 2-8 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 |
| 175.00 | 3-8 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 | 5-9 | 5-11 | 6-2 | 6-4 |
| 200.00 | 4-10 | 5-4 | 5-11 | 6-4 | 6-10 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS



OH810.331

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 |
| 125.00 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 150.00 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 |
| 175.00 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 |
| 200.00 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 |
| 225.00 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 |
| 250.00 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-9 | 10-10 | 11-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 |
| 125.00 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 150.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 175.00 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 |
| 200.00 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-10 | 6-10 | 6-11 | 7-0 |
| 225.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 |
| 250.00 | 9-6 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 |
| 175.00 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 |
| 200.00 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 |
| 225.00 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 |
| 250.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 275.00 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-7 | 12-8 | 12-9 | 12-10 |
| 300.00 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 |
| 325.00 | 16-8 | 16-10 | 17-0 | 17-2 | 17-3 | 17-5 | 17-7 | 17-8 | 17-10 | 17-11 |
| 350.00 | 19-4 | 19-6 | 19-8 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-9 |
| 375.00 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 | 23-2 | 23-5 | 23-7 | 23-9 | 23-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-9 | 3-10 |
| 175.00 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 |
| 200.00 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 |
| 225.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 |
| 250.00 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 |
| 275.00 | 12-0 | 12-1 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 |
| 300.00 | 14-3 | 14-5 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 |
| 325.00 | 16-9 | 16-11 | 17-1 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 17-11 |
| 350.00 | 19-6 | 19-8 | 19-10 | 20-0 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 | 20-9 |
| 375.00 | 22-4 | 22-7 | 22-9 | 22-11 | 23-2 | 23-4 | 23-6 | 23-7 | 23-9 | 23-10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

OH810.333

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 225.00 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 |
| 250.00 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 |
| 275.00 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 | 12-8 |
| 300.00 | 14-6 | 14-7 | 14-8 | 14-9 | 14-9 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 |
| 325.00 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 |
| 350.00 | 19-9 | 19-10 | 19-11 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 |
| 375.00 | 22-8 | 22-10 | 22-11 | 23-0 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 |
| 400.00 | 25-10 | 26-0 | 26-1 | 26-3 | 26-4 | 26-5 | 26-7 | 26-8 | 26-10 | 26-11 |
| 425.00 | 29-2 | 29-4 | 29-6 | 29-7 | 29-9 | 29-11 | 30-0 | 30-2 | 30-3 | 30-4 |
| 450.00 | 32-9 | 32-11 | 33-1 | 33-3 | 33-5 | 33-6 | 33-8 | 33-10 | 34-0 | 34-1 |
| 475.00 | 36-6 | 36-8 | 36-11 | 37-1 | 37-3 | 37-5 | 37-7 | 37-9 | 37-11 | 38-0 |
| 500.00 | 40-6 | 40-8 | 40-11 | 41-1 | 41-3 | 41-6 | 41-8 | 41-10 | 42-0 | 42-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-8 |
| 225.00 | 8-2 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-6 |
| 250.00 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 |
| 275.00 | 12-3 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 |
| 300.00 | 14-7 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 14-11 | 15-0 | 15-0 | 15-1 |
| 325.00 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 | 17-9 |
| 350.00 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 |
| 375.00 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-4 | 23-5 | 23-6 | 23-6 | 23-7 |
| 400.00 | 25-11 | 26-1 | 26-2 | 26-3 | 26-5 | 26-6 | 26-8 | 26-9 | 26-10 | 26-11 |
| 425.00 | 29-3 | 29-5 | 29-7 | 29-8 | 29-10 | 30-0 | 30-1 | 30-2 | 30-3 | 30-4 |
| 450.00 | 32-10 | 33-0 | 33-2 | 33-4 | 33-6 | 33-8 | 33-9 | 33-10 | 34-0 | 34-1 |
| 475.00 | 36-8 | 36-10 | 37-0 | 37-2 | 37-4 | 37-6 | 37-8 | 37-9 | 37-11 | 38-0 |
| 500.00 | 40-7 | 40-10 | 41-0 | 41-3 | 41-5 | 41-7 | 41-9 | 41-11 | 42-0 | 42-2 |

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| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 | 10-5 |
| 275.00 | 12-4 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 |
| 300.00 | 14-8 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 | 15-0 | 15-0 | 15-0 | 15-1 |
| 325.00 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 |
| 350.00 | 20-0 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-5 | 20-5 | 20-6 | 20-6 |
| 375.00 | 23-0 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-7 |
| 400.00 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-10 |
| 425.00 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-3 | 30-3 | 30-4 |
| 450.00 | 33-3 | 33-4 | 33-5 | 33-6 | 33-7 | 33-8 | 33-10 | 33-11 | 34-0 | 34-1 |
| 475.00 | 37-0 | 37-2 | 37-3 | 37-4 | 37-6 | 37-7 | 37-8 | 37-10 | 37-11 | 38-0 |
| 500.00 | 41-1 | 41-2 | 41-4 | 41-5 | 41-7 | 41-8 | 41-10 | 41-11 | 42-0 | 42-1 |
| 525.00 | 45-4 | 45-6 | 45-7 | 45-9 | 45-10 | 46-0 | 46-2 | 46-3 | 46-5 | 46-6 |
| 550.00 | 49-10 | 49-11 | 50-1 | 50-3 | 50-5 | 50-6 | 50-8 | 50-10 | 50-11 | 51-1 |
| 575.00 | 54-6 | 54-8 | 54-10 | 55-0 | 55-1 | 55-3 | 55-5 | 55-7 | 55-9 | 55-10 |
| 600.00 | 59-5 | 59-7 | 59-9 | 59-11 | 60-1 | 60-3 | 60-5 | 60-7 | 60-9 | 60-11 |
| 625.00 | 64-6 | 64-8 | 64-11 | 65-1 | 65-3 | 65-5 | 65-8 | 65-10 | 66-0 | 66-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 | 10-5 |
| 275.00 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 |
| 300.00 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 | 15-0 | 15-0 | 15-0 | 15-1 |
| 325.00 | 17-4 | 17-4 | 17-5 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 |
| 350.00 | 20-1 | 20-2 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 | 20-5 | 20-6 | 20-6 |
| 375.00 | 23-1 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-5 | 23-6 | 23-7 | 23-7 |
| 400.00 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-8 | 26-9 | 26-10 | 26-10 |
| 425.00 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 | 30-3 | 30-4 |
| 450.00 | 33-3 | 33-4 | 33-6 | 33-7 | 33-8 | 33-9 | 33-10 | 33-11 | 34-0 | 34-1 |
| 475.00 | 37-1 | 37-3 | 37-4 | 37-5 | 37-7 | 37-8 | 37-9 | 37-10 | 37-11 | 38-0 |
| 500.00 | 41-2 | 41-3 | 41-5 | 41-6 | 41-8 | 41-9 | 41-10 | 41-11 | 42-0 | 42-1 |
| 525.00 | 45-5 | 45-6 | 45-8 | 45-10 | 45-11 | 46-1 | 46-2 | 46-3 | 46-5 | 46-6 |
| 550.00 | 49-10 | 50-0 | 50-2 | 50-4 | 50-6 | 50-8 | 50-9 | 50-10 | 50-11 | 51-1 |
| 575.00 | 54-7 | 54-9 | 54-11 | 55-1 | 55-3 | 55-5 | 55-6 | 55-8 | 55-9 | 55-10 |
| 600.00 | 59-6 | 59-8 | 59-10 | 60-0 | 60-2 | 60-5 | 60-6 | 60-8 | 60-9 | 60-11 |
| 625.00 | 64-7 | 64-10 | 65-0 | 65-2 | 65-5 | 65-7 | 65-9 | 65-11 | 66-0 | 66-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
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| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 1.21 | 2000 | 1.21 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.36 | 1526 | 0.35 | 1579 |
| 30 | 0 | 0 | 0 | 0.44 | 0.7 | 780 | 0.61 | 901 |
| 40 | 0 | 0 | 0 | 0.44 | 0.86 | 639 | 0.74 | 740 |
| 50 | 0 | 0 | 0 | 0.44 | 1.02 | 541 | 0.89 | 620 |
| 60 | 0 | 0 | 0 | 0.44 | 1.17 | 472 | 1.03 | 533 |
| 70 | 0 | 0 | 0 | 0.44 | 1.31 | 422 | 1.17 | 469 |
| 80 | 0 | 0 | 0 | 0.44 | 1.4 | 392 | 1.31 | 421 |
| 90 | 0 | 0 | 0 | 0.44 | 1.48 | 373 | 1.43 | 384 |
| 100 | 0 | 0 | 0 | 0.44 | 1.55 | 355 | 1.55 | 355 |
| 110 | 0 | 0 | 0 | 0.44 | 1.62 | 339 | 1.62 | 339 |
| 120 | 0 | 0 | 0 | 0.44 | 1.69 | 326 | 1.69 | 326 |
| 130 | 0 | 0 | 0 | 0.44 | 1.76 | 313 | 1.76 | 313 |
| 167 | 0 | 0 | 0 | 0.44 | 2 | 276 | 2 | 276 |
| 212 | 0 | 0 | 0 | 0.44 | 2.26 | 244 | 2.26 | 244 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 4.86 | 2000 | 4.86 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 3.74 | 588 | 3.61 | 610 |
| 30 | 0 | 0 | 0 | 0.44 | 4.3 | 512 | 4.16 | 530 |
| 40 | 0 | 0 | 0 | 0.44 | 4.48 | 492 | 4.33 | 509 |
| 50 | 0 | 0 | 0 | 0.44 | 4.65 | 475 | 4.5 | 490 |
| 60 | 0 | 0 | 0 | 0.44 | 4.81 | 459 | 4.66 | 473 |
| 70 | 0 | 0 | 0 | 0.44 | 4.97 | 444 | 4.82 | 458 |
| 80 | 0 | 0 | 0 | 0.44 | 5.11 | 432 | 4.97 | 444 |
| 90 | 0 | 0 | 0 | 0.44 | 5.21 | 424 | 5.12 | 431 |
| 100 | 0 | 0 | 0 | 0.44 | 5.3 | 416 | 5.27 | 419 |
| 110 | 0 | 0 | 0 | 0.44 | 5.4 | 409 | 5.4 | 409 |
| 120 | 0 | 0 | 0 | 0.44 | 5.49 | 402 | 5.49 | 402 |
| 130 | 0 | 0 | 0 | 0.44 | 5.58 | 395 | 5.58 | 395 |
| 167 | 0 | 0 | 0 | 0.44 | 5.91 | 374 | 5.91 | 374 |
| 212 | 0 | 0 | 0 | 0.44 | 6.28 | 351 | 6.28 | 351 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 10.97 | 2000 | 10.97 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 9.89 | 503 | 9.76 | 509 |
| 30 | 0 | 0 | 0 | 0.44 | 10.42 | 477 | 10.28 | 484 |
| 40 | 0 | 0 | 0 | 0.44 | 10.59 | 470 | 10.44 | 476 |
| 50 | 0 | 0 | 0 | 0.44 | 10.75 | 463 | 10.61 | 469 |
| 60 | 0 | 0 | 0 | 0.44 | 10.92 | 456 | 10.77 | 462 |
| 70 | 0 | 0 | 0 | 0.44 | 11.08 | 449 | 10.93 | 455 |
| 80 | 0 | 0 | 0 | 0.44 | 11.24 | 443 | 11.09 | 449 |
| 90 | 0 | 0 | 0 | 0.44 | 11.34 | 439 | 11.24 | 443 |
| 100 | 0 | 0 | 0 | 0.44 | 11.45 | 435 | 11.39 | 437 |
| 110 | 0 | 0 | 0 | 0.44 | 11.55 | 431 | 11.55 | 431 |
| 120 | 0 | 0 | 0 | 0.44 | 11.65 | 427 | 11.65 | 427 |
| 130 | 0 | 0 | 0 | 0.44 | 11.75 | 424 | 11.75 | 424 |
| 167 | 0 | 0 | 0 | 0.44 | 12.12 | 411 | 12.12 | 411 |
| 212 | 0 | 0 | 0 | 0.44 | 12.55 | 397 | 12.55 | 397 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 19.59 | 2000 | 19.59 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 18.52 | 479 | 18.4 | 482 |
| 30 | 0 | 0 | 0 | 0.44 | 19.04 | 466 | 18.9 | 470 |
| 40 | 0 | 0 | 0 | 0.44 | 19.2 | 462 | 19.06 | 466 |
| 50 | 0 | 0 | 0 | 0.44 | 19.37 | 459 | 19.22 | 462 |
| 60 | 0 | 0 | 0 | 0.44 | 19.54 | 455 | 19.38 | 458 |
| 70 | 0 | 0 | 0 | 0.44 | 19.7 | 451 | 19.54 | 455 |
| 80 | 0 | 0 | 0 | 0.44 | 19.86 | 447 | 19.7 | 451 |
| 90 | 0 | 0 | 0 | 0.44 | 19.97 | 445 | 19.86 | 447 |
| 100 | 0 | 0 | 0 | 0.44 | 20.08 | 443 | 20.02 | 444 |
| 110 | 0 | 0 | 0 | 0.44 | 20.18 | 440 | 20.18 | 441 |
| 120 | 0 | 0 | 0 | 0.44 | 20.29 | 438 | 20.29 | 438 |
| 130 | 0 | 0 | 0 | 0.44 | 20.4 | 436 | 20.4 | 436 |
| 167 | 0 | 0 | 0 | 0.44 | 20.78 | 428 | 20.78 | 428 |
| 212 | 0 | 0 | 0 | 0.44 | 21.24 | 419 | 21.24 | 419 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 30.78 | 2000 | 30.78 | 2000* |
| 0 | 0 | 0 | 0 | 0.44 | 29.72 | 469 | 29.59 | 471 |
| 30 | 0 | 0 | 0 | 0.44 | 30.23 | 462 | 30.09 | 464 |
| 40 | 0 | 0 | 0 | 0.44 | 30.39 | 459 | 30.25 | 461 |
| 50 | 0 | 0 | 0 | 0.44 | 30.56 | 457 | 30.41 | 459 |
| 60 | 0 | 0 | 0 | 0.44 | 30.73 | 454 | 30.57 | 456 |
| 70 | 0 | 0 | 0 | 0.44 | 30.89 | 452 | 30.73 | 454 |
| 80 | 0 | 0 | 0 | 0.44 | 31.05 | 450 | 30.89 | 452 |
| 90 | 0 | 0 | 0 | 0.44 | 31.17 | 448 | 31.05 | 450 |
| 100 | 0 | 0 | 0 | 0.44 | 31.27 | 447 | 31.21 | 447 |
| 110 | 0 | 0 | 0 | 0.44 | 31.38 | 445 | 31.37 | 445 |
| 120 | 0 | 0 | 0 | 0.44 | 31.49 | 444 | 31.49 | 444 |
| 130 | 0 | 0 | 0 | 0.44 | 31.6 | 442 | 31.6 | 442 |
| 167 | 0 | 0 | 0 | 0.44 | 31.99 | 437 | 31.99 | 437 |
| 212 | 0 | 0 | 0 | 0.44 | 32.46 | 431 | 32.46 | 431 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 100.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-7 |
| 125.00 | 0-9 | 0-11 | 1-2 | 1-5 | 1-7 | 1-10 | 2-1 | 2-3 | 2-5 | 2-6 |
| 150.00 | 1-1 | 1-4 | 1-8 | 2-0 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-8 |
| 175.00 | 1-6 | 1-10 | 2-3 | 2-9 | 3-2 | 3-7 | 4-0 | 4-5 | 4-9 | 5-0 |
| 200.00 | 2-0 | 2-5 | 3-0 | 3-7 | 4-2 | 4-8 | 5-3 | 5-9 | 6-3 | 6-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 100.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 125.00 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-5 | 2-6 |
| 150.00 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-2 | 3-4 | 3-6 | 3-8 |
| 175.00 | 1-9 | 2-2 | 2-8 | 3-1 | 3-7 | 4-0 | 4-4 | 4-6 | 4-9 | 5-0 |
| 200.00 | 2-3 | 2-10 | 3-5 | 4-1 | 4-8 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 |
| 175.00 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 |
| 200.00 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 |
| 225.00 | 5-1 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-10 |
| 250.00 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 125.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 |
| 175.00 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 200.00 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 |
| 225.00 | 5-3 | 5-5 | 5-8 | 5-11 | 6-1 | 6-3 | 6-6 | 6-7 | 6-9 | 6-10 |
| 250.00 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-3 | 8-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.340

TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 |
| 175.00 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 |
| 200.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 |
| 225.00 | 5-8 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 250.00 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 |
| 275.00 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 |
| 300.00 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 |
| 325.00 | 11-10 | 12-1 | 12-3 | 12-5 | 12-8 | 12-10 | 13-0 | 13-2 | 13-5 | 13-7 |
| 350.00 | 13-9 | 14-0 | 14-3 | 14-5 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 |
| 375.00 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-10 | 18-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 |
| 175.00 | 3-6 | 3-6 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 200.00 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 |
| 225.00 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 |
| 250.00 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 | 7-10 | 7-11 | 8-0 |
| 275.00 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 |
| 300.00 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 |
| 325.00 | 12-0 | 12-3 | 12-5 | 12-7 | 12-10 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 |
| 350.00 | 13-11 | 14-2 | 14-5 | 14-8 | 14-10 | 15-1 | 15-4 | 15-5 | 15-7 | 15-9 |
| 375.00 | 16-0 | 16-3 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-9 | 17-11 | 18-1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 |
| 225.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 |
| 250.00 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-10 | 7-10 |
| 275.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 |
| 300.00 | 10-6 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 |
| 325.00 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 | 13-4 |
| 350.00 | 14-4 | 14-5 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 |
| 375.00 | 16-5 | 16-7 | 16-9 | 16-11 | 17-0 | 17-2 | 17-4 | 17-5 | 17-7 | 17-9 |
| 400.00 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-8 | 19-10 | 20-0 | 20-2 |
| 425.00 | 21-2 | 21-4 | 21-6 | 21-9 | 21-11 | 22-1 | 22-3 | 22-5 | 22-7 | 22-9 |
| 450.00 | 23-9 | 23-11 | 24-2 | 24-4 | 24-7 | 24-9 | 25-0 | 25-2 | 25-4 | 25-7 |
| 475.00 | 26-5 | 26-8 | 26-11 | 27-2 | 27-4 | 27-7 | 27-10 | 28-1 | 28-3 | 28-6 |
| 500.00 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 | 31-1 | 31-4 | 31-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 |
| 225.00 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 |
| 250.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 |
| 275.00 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 | 9-6 |
| 300.00 | 10-7 | 10-8 | 10-9 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 |
| 325.00 | 12-5 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 |
| 350.00 | 14-5 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 |
| 375.00 | 16-7 | 16-9 | 16-10 | 17-0 | 17-2 | 17-4 | 17-5 | 17-7 | 17-8 | 17-9 |
| 400.00 | 18-10 | 19-0 | 19-2 | 19-4 | 19-6 | 19-8 | 19-10 | 20-0 | 20-1 | 20-2 |
| 425.00 | 21-4 | 21-6 | 21-8 | 21-11 | 22-1 | 22-3 | 22-5 | 22-7 | 22-8 | 22-10 |
| 450.00 | 23-11 | 24-1 | 24-4 | 24-6 | 24-9 | 24-11 | 25-2 | 25-4 | 25-5 | 25-7 |
| 475.00 | 26-8 | 26-11 | 27-1 | 27-4 | 27-7 | 27-10 | 28-1 | 28-2 | 28-4 | 28-6 |
| 500.00 | 29-6 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 | 31-1 | 31-3 | 31-5 | 31-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 |
| 275.00 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 |
| 300.00 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-2 | 11-2 | 11-3 |
| 325.00 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 |
| 350.00 | 14-8 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 |
| 375.00 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 |
| 400.00 | 19-1 | 19-3 | 19-4 | 19-5 | 19-6 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 |
| 425.00 | 21-7 | 21-9 | 21-10 | 21-11 | 22-1 | 22-2 | 22-3 | 22-5 | 22-6 | 22-8 |
| 450.00 | 24-3 | 24-4 | 24-6 | 24-7 | 24-9 | 24-10 | 25-0 | 25-2 | 25-3 | 25-5 |
| 475.00 | 27-0 | 27-2 | 27-3 | 27-5 | 27-7 | 27-9 | 27-10 | 28-0 | 28-2 | 28-4 |
| 500.00 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 | 31-4 |
| 525.00 | 33-0 | 33-2 | 33-4 | 33-7 | 33-9 | 33-11 | 34-1 | 34-3 | 34-5 | 34-7 |
| 550.00 | 36-3 | 36-5 | 36-8 | 36-10 | 37-0 | 37-3 | 37-5 | 37-7 | 37-10 | 38-0 |
| 575.00 | 39-8 | 39-10 | 40-1 | 40-3 | 40-6 | 40-9 | 40-11 | 41-2 | 41-4 | 41-7 |
| 600.00 | 43-2 | 43-5 | 43-8 | 43-11 | 44-1 | 44-4 | 44-7 | 44-10 | 45-1 | 45-3 |
| 625.00 | 46-11 | 47-2 | 47-5 | 47-8 | 47-11 | 48-2 | 48-5 | 48-8 | 48-11 | 49-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-10 |
| 275.00 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-5 |
| 300.00 | 10-9 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 |
| 325.00 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 |
| 350.00 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-3 | 15-4 |
| 375.00 | 16-10 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-7 |
| 400.00 | 19-2 | 19-4 | 19-5 | 19-6 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 |
| 425.00 | 21-8 | 21-10 | 21-11 | 22-1 | 22-2 | 22-3 | 22-5 | 22-6 | 22-7 | 22-8 |
| 450.00 | 24-4 | 24-6 | 24-7 | 24-9 | 24-10 | 25-0 | 25-2 | 25-3 | 25-4 | 25-5 |
| 475.00 | 27-1 | 27-3 | 27-5 | 27-7 | 27-9 | 27-10 | 28-0 | 28-1 | 28-3 | 28-4 |
| 500.00 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-2 | 31-3 | 31-5 |
| 525.00 | 33-2 | 33-4 | 33-6 | 33-9 | 33-11 | 34-1 | 34-3 | 34-5 | 34-6 | 34-7 |
| 550.00 | 36-5 | 36-7 | 36-10 | 37-0 | 37-3 | 37-5 | 37-7 | 37-9 | 37-11 | 38-0 |
| 575.00 | 39-10 | 40-0 | 40-3 | 40-6 | 40-8 | 40-11 | 41-2 | 41-3 | 41-5 | 41-7 |
| 600.00 | 43-4 | 43-7 | 43-10 | 44-1 | 44-4 | 44-7 | 44-10 | 45-0 | 45-2 | 45-3 |
| 625.00 | 47-1 | 47-4 | 47-7 | 47-11 | 48-2 | 48-5 | 48-8 | 48-10 | 49-0 | 49-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 0.97 | 2500 | 0.97 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 0.23 | 2412 | 0.23 | 2412 |
| 30 | 0 | 0 | 0 | 0.44 | 0.38 | 1439 | 0.34 | 1632 |
| 40 | 0 | 0 | 0 | 0.44 | 0.48 | 1154 | 0.4 | 1379 |
| 50 | 0 | 0 | 0 | 0.44 | 0.6 | 916 | 0.48 | 1142 |
| 60 | 0 | 0 | 0 | 0.44 | 0.75 | 735 | 0.59 | 933 |
| 70 | 0 | 0 | 0 | 0.44 | 0.91 | 608 | 0.72 | 764 |
| 80 | 0 | 0 | 0 | 0.44 | 1.06 | 519 | 0.86 | 637 |
| 90 | 0 | 0 | 0 | 0.44 | 1.13 | 485 | 1.01 | 545 |
| 100 | 0 | 0 | 0 | 0.44 | 1.21 | 455 | 1.15 | 478 |
| 110 | 0 | 0 | 0 | 0.44 | 1.29 | 427 | 1.29 | 427 |
| 120 | 0 | 0 | 0 | 0.44 | 1.36 | 404 | 1.36 | 404 |
| 130 | 0 | 0 | 0 | 0.44 | 1.44 | 383 | 1.44 | 383 |
| 167 | 0 | 0 | 0 | 0.44 | 1.7 | 324 | 1.7 | 324 |
| 212 | 0 | 0 | 0 | 0.44 | 1.99 | 277 | 1.99 | 277 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 3.89 | 2500 | 3.89 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 2.24 | 983 | 2.04 | 1079 |
| 30 | 0 | 0 | 0 | 0.44 | 2.96 | 743 | 2.72 | 809 |
| 40 | 0 | 0 | 0 | 0.44 | 3.19 | 691 | 2.94 | 749 |
| 50 | 0 | 0 | 0 | 0.44 | 3.4 | 648 | 3.15 | 698 |
| 60 | 0 | 0 | 0 | 0.44 | 3.61 | 611 | 3.36 | 656 |
| 70 | 0 | 0 | 0 | 0.44 | 3.81 | 579 | 3.56 | 619 |
| 80 | 0 | 0 | 0 | 0.44 | 4 | 551 | 3.75 | 587 |
| 90 | 0 | 0 | 0 | 0.44 | 4.13 | 533 | 3.94 | 560 |
| 100 | 0 | 0 | 0 | 0.44 | 4.24 | 520 | 4.12 | 535 |
| 110 | 0 | 0 | 0 | 0.44 | 4.35 | 507 | 4.29 | 514 |
| 120 | 0 | 0 | 0 | 0.44 | 4.46 | 494 | 4.46 | 494 |
| 130 | 0 | 0 | 0 | 0.44 | 4.56 | 483 | 4.56 | 483 |
| 167 | 0 | 0 | 0 | 0.44 | 4.94 | 447 | 4.94 | 447 |
| 212 | 0 | 0 | 0 | 0.44 | 5.37 | 411 | 5.37 | 411 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 8.76 | 2500 | 8.76 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 7.15 | 694 | 6.91 | 718 |
| 30 | 0 | 0 | 0 | 0.44 | 7.83 | 634 | 7.59 | 654 |
| 40 | 0 | 0 | 0 | 0.44 | 8.05 | 617 | 7.8 | 636 |
| 50 | 0 | 0 | 0 | 0.44 | 8.27 | 601 | 8.01 | 619 |
| 60 | 0 | 0 | 0 | 0.44 | 8.47 | 586 | 8.22 | 604 |
| 70 | 0 | 0 | 0 | 0.44 | 8.68 | 572 | 8.42 | 590 |
| 80 | 0 | 0 | 0 | 0.44 | 8.88 | 560 | 8.62 | 576 |
| 90 | 0 | 0 | 0 | 0.44 | 9.04 | 550 | 8.81 | 563 |
| 100 | 0 | 0 | 0 | 0.44 | 9.16 | 542 | 9.01 | 552 |
| 110 | 0 | 0 | 0 | 0.44 | 9.28 | 535 | 9.19 | 540 |
| 120 | 0 | 0 | 0 | 0.44 | 9.4 | 529 | 9.38 | 530 |
| 130 | 0 | 0 | 0 | 0.44 | 9.53 | 522 | 9.53 | 522 |
| 167 | 0 | 0 | 0 | 0.44 | 9.96 | 499 | 9.96 | 499 |
| 212 | 0 | 0 | 0 | 0.44 | 10.46 | 475 | 10.46 | 475 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 15.62 | 2500 | 15.62 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 14.04 | 630 | 13.81 | 640 |
| 30 | 0 | 0 | 0 | 0.44 | 14.69 | 602 | 14.45 | 612 |
| 40 | 0 | 0 | 0 | 0.44 | 14.91 | 594 | 14.66 | 603 |
| 50 | 0 | 0 | 0 | 0.44 | 15.12 | 585 | 14.87 | 595 |
| 60 | 0 | 0 | 0 | 0.44 | 15.33 | 577 | 15.07 | 587 |
| 70 | 0 | 0 | 0 | 0.44 | 15.53 | 570 | 15.27 | 579 |
| 80 | 0 | 0 | 0 | 0.44 | 15.74 | 563 | 15.47 | 572 |
| 90 | 0 | 0 | 0 | 0.44 | 15.91 | 557 | 15.67 | 565 |
| 100 | 0 | 0 | 0 | 0.44 | 16.04 | 552 | 15.87 | 558 |
| 110 | 0 | 0 | 0 | 0.44 | 16.16 | 548 | 16.06 | 551 |
| 120 | 0 | 0 | 0 | 0.44 | 16.29 | 544 | 16.25 | 545 |
| 130 | 0 | 0 | 0 | 0.44 | 16.42 | 539 | 16.42 | 539 |
| 167 | 0 | 0 | 0 | 0.44 | 16.88 | 525 | 16.88 | 525 |
| 212 | 0 | 0 | 0 | 0.44 | 17.43 | 509 | 17.43 | 509 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 24.49 | 2500 | 24.49 | 2500* |
| 0 | 0 | 0 | 0 | 0.44 | 22.92 | 605 | 22.7 | 611 |
| 30 | 0 | 0 | 0 | 0.44 | 23.57 | 589 | 23.33 | 595 |
| 40 | 0 | 0 | 0 | 0.44 | 23.78 | 583 | 23.53 | 589 |
| 50 | 0 | 0 | 0 | 0.44 | 23.99 | 578 | 23.74 | 584 |
| 60 | 0 | 0 | 0 | 0.44 | 24.2 | 574 | 23.94 | 580 |
| 70 | 0 | 0 | 0 | 0.44 | 24.4 | 569 | 24.14 | 575 |
| 80 | 0 | 0 | 0 | 0.44 | 24.61 | 564 | 24.34 | 570 |
| 90 | 0 | 0 | 0 | 0.44 | 24.78 | 560 | 24.54 | 566 |
| 100 | 0 | 0 | 0 | 0.44 | 24.92 | 557 | 24.74 | 561 |
| 110 | 0 | 0 | 0 | 0.44 | 25.05 | 554 | 24.94 | 557 |
| 120 | 0 | 0 | 0 | 0.44 | 25.18 | 552 | 25.13 | 553 |
| 130 | 0 | 0 | 0 | 0.44 | 25.31 | 549 | 25.31 | 549 |
| 167 | 0 | 0 | 0 | 0.44 | 25.79 | 539 | 25.79 | 539 |
| 212 | 0 | 0 | 0 | 0.44 | 26.36 | 527 | 26.36 | 527 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 |
| 175.00 | 0-11 | 1-0 | 1-3 | 1-6 | 1-10 | 2-2 | 2-8 | 3-1 | 3-6 | 3-11 |
| 200.00 | 1-2 | 1-4 | 1-7 | 1-11 | 2-4 | 2-11 | 3-5 | 4-1 | 4-7 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 | 1-3 |
| 125.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-9 | 1-11 | 2-0 |
| 150.00 | 0-8 | 0-10 | 1-1 | 1-4 | 1-8 | 2-0 | 2-5 | 2-7 | 2-9 | 2-11 |
| 175.00 | 1-0 | 1-2 | 1-6 | 1-10 | 2-4 | 2-9 | 3-3 | 3-6 | 3-8 | 3-11 |
| 200.00 | 1-3 | 1-6 | 1-11 | 2-5 | 3-0 | 3-7 | 4-3 | 4-6 | 4-10 | 5-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 |
| 150.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 175.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 |
| 200.00 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 |
| 225.00 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 |
| 250.00 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-5 | 6-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 |
| 150.00 | 1-6 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 |
| 175.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 |
| 200.00 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-3 | 4-4 |
| 225.00 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-4 | 5-6 |
| 250.00 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 | 6-8 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 |
| 175.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 200.00 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 225.00 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-1 | 5-2 |
| 250.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 |
| 275.00 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 |
| 300.00 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-7 | 8-10 | 9-0 | 9-2 |
| 325.00 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-1 | 10-4 | 10-7 | 10-10 |
| 350.00 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 |
| 375.00 | 11-6 | 11-10 | 12-2 | 12-6 | 12-10 | 13-2 | 13-6 | 13-9 | 14-1 | 14-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 |
| 175.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 |
| 200.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 |
| 225.00 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 250.00 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 |
| 275.00 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-8 | 7-10 |
| 300.00 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 | 9-0 | 9-2 | 9-3 |
| 325.00 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-7 | 10-9 | 10-11 |
| 350.00 | 10-4 | 10-8 | 11-0 | 11-3 | 11-6 | 11-10 | 12-1 | 12-4 | 12-6 | 12-8 |
| 375.00 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-11 | 14-2 | 14-4 | 14-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 |
| 225.00 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 |
| 250.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 |
| 275.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 |
| 300.00 | 8-0 | 8-1 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 |
| 325.00 | 9-5 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 |
| 350.00 | 10-11 | 11-1 | 11-3 | 11-5 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 |
| 375.00 | 12-6 | 12-8 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 |
| 400.00 | 14-3 | 14-5 | 14-8 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-10 | 16-1 |
| 425.00 | 16-1 | 16-4 | 16-7 | 16-9 | 17-0 | 17-3 | 17-6 | 17-8 | 17-11 | 18-2 |
| 450.00 | 18-0 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-1 | 20-4 |
| 475.00 | 20-1 | 20-5 | 20-8 | 21-0 | 21-3 | 21-7 | 21-10 | 22-1 | 22-5 | 22-8 |
| 500.00 | 22-3 | 22-7 | 22-11 | 23-3 | 23-7 | 23-11 | 24-2 | 24-6 | 24-10 | 25-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 |
| 225.00 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 |
| 250.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 |
| 275.00 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 300.00 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 |
| 325.00 | 9-7 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-5 | 10-6 | 10-7 | 10-8 |
| 350.00 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 |
| 375.00 | 12-9 | 12-11 | 13-1 | 13-3 | 13-6 | 13-8 | 13-10 | 14-0 | 14-1 | 14-2 |
| 400.00 | 14-6 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 | 15-11 | 16-0 | 16-2 |
| 425.00 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-6 | 17-9 | 18-0 | 18-1 | 18-3 |
| 450.00 | 18-4 | 18-7 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 | 20-4 | 20-6 |
| 475.00 | 20-5 | 20-9 | 21-0 | 21-4 | 21-8 | 21-11 | 22-3 | 22-5 | 22-8 | 22-10 |
| 500.00 | 22-8 | 23-0 | 23-4 | 23-8 | 24-0 | 24-4 | 24-7 | 24-11 | 25-1 | 25-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 |
| 275.00 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-6 | 7-6 |
| 300.00 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 |
| 325.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 |
| 350.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 375.00 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-11 | 14-0 |
| 400.00 | 14-9 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 | 15-10 | 15-11 |
| 425.00 | 16-8 | 16-10 | 17-0 | 17-2 | 17-3 | 17-5 | 17-7 | 17-9 | 17-10 | 18-0 |
| 450.00 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-8 | 19-10 | 20-0 | 20-2 |
| 475.00 | 20-10 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 22-0 | 22-2 | 22-4 | 22-6 |
| 500.00 | 23-1 | 23-4 | 23-6 | 23-9 | 23-11 | 24-2 | 24-4 | 24-7 | 24-9 | 24-11 |
| 525.00 | 25-6 | 25-9 | 25-11 | 26-2 | 26-5 | 26-8 | 26-10 | 27-1 | 27-3 | 27-6 |
| 550.00 | 28-0 | 28-3 | 28-6 | 28-9 | 29-0 | 29-3 | 29-6 | 29-9 | 29-11 | 30-2 |
| 575.00 | 30-7 | 30-11 | 31-2 | 31-5 | 31-8 | 32-0 | 32-3 | 32-6 | 32-9 | 33-0 |
| 600.00 | 33-4 | 33-8 | 33-11 | 34-3 | 34-6 | 34-10 | 35-1 | 35-5 | 35-8 | 36-0 |
| 625.00 | 36-2 | 36-6 | 36-10 | 37-2 | 37-6 | 37-9 | 38-1 | 38-5 | 38-9 | 39-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 |
| 275.00 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 |
| 300.00 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 |
| 325.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-4 | 10-5 | 10-5 | 10-6 | 10-7 |
| 350.00 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 |
| 375.00 | 13-1 | 13-3 | 13-4 | 13-6 | 13-7 | 13-8 | 13-10 | 13-11 | 14-0 | 14-1 |
| 400.00 | 14-11 | 15-1 | 15-2 | 15-4 | 15-6 | 15-7 | 15-9 | 15-10 | 15-11 | 16-0 |
| 425.00 | 16-10 | 17-0 | 17-2 | 17-4 | 17-6 | 17-7 | 17-9 | 17-11 | 18-0 | 18-1 |
| 450.00 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-2 | 20-3 |
| 475.00 | 21-1 | 21-3 | 21-5 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-7 |
| 500.00 | 23-4 | 23-7 | 23-9 | 24-0 | 24-2 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 |
| 525.00 | 25-9 | 26-0 | 26-3 | 26-5 | 26-8 | 26-11 | 27-2 | 27-4 | 27-6 | 27-8 |
| 550.00 | 28-3 | 28-6 | 28-9 | 29-1 | 29-4 | 29-7 | 29-10 | 30-0 | 30-2 | 30-4 |
| 575.00 | 30-11 | 31-2 | 31-6 | 31-9 | 32-0 | 32-4 | 32-7 | 32-10 | 33-0 | 33-2 |
| 600.00 | 33-8 | 34-0 | 34-3 | 34-7 | 34-11 | 35-2 | 35-6 | 35-9 | 35-11 | 36-1 |
| 625.00 | 36-7 | 36-11 | 37-3 | 37-7 | 37-10 | 38-2 | 38-6 | 38-10 | 39-0 | 39-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS



OH810.351

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 0.83 | 2923 | 0.81 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 0.18 | 3055 | 0.18 | 3092 |
| 30 | 0 | 0 | 0 | 0.44 | 0.27 | 2022 | 0.24 | 2322 |
| 40 | 0 | 0 | 0 | 0.44 | 0.32 | 1693 | 0.27 | 2059 |
| 50 | 0 | 0 | 0 | 0.44 | 0.4 | 1383 | 0.31 | 1795 |
| 60 | 0 | 0 | 0 | 0.44 | 0.5 | 1105 | 0.36 | 1535 |
| 70 | 0 | 0 | 0 | 0.44 | 0.63 | 877 | 0.43 | 1285 |
| 80 | 0 | 0 | 0 | 0.44 | 0.78 | 708 | 0.52 | 1056 |
| 90 | 0 | 0 | 0 | 0.44 | 0.87 | 634 | 0.64 | 860 |
| 100 | 0 | 0 | 0 | 0.44 | 0.94 | 587 | 0.78 | 708 |
| 110 | 0 | 0 | 0 | 0.44 | 1.01 | 545 | 0.92 | 595 |
| 120 | 0 | 0 | 0 | 0.44 | 1.08 | 508 | 1.07 | 514 |
| 130 | 0 | 0 | 0 | 0.44 | 1.16 | 475 | 1.16 | 476 |
| 167 | 0 | 0 | 0 | 0.44 | 1.44 | 383 | 1.43 | 384 |
| 212 | 0 | 0 | 0 | 0.44 | 1.75 | 315 | 1.75 | 315 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 3.24 | 3000 | 3.24 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 1.26 | 1747 | 1.14 | 1933 |
| 30 | 0 | 0 | 0 | 0.44 | 1.92 | 1144 | 1.64 | 1342 |
| 40 | 0 | 0 | 0 | 0.44 | 2.17 | 1013 | 1.85 | 1189 |
| 50 | 0 | 0 | 0 | 0.44 | 2.42 | 909 | 2.07 | 1061 |
| 60 | 0 | 0 | 0 | 0.44 | 2.66 | 826 | 2.3 | 956 |
| 70 | 0 | 0 | 0 | 0.44 | 2.9 | 759 | 2.53 | 869 |
| 80 | 0 | 0 | 0 | 0.44 | 3.13 | 704 | 2.76 | 798 |
| 90 | 0 | 0 | 0 | 0.44 | 3.34 | 660 | 2.98 | 739 |
| 100 | 0 | 0 | 0 | 0.44 | 3.45 | 638 | 3.19 | 690 |
| 110 | 0 | 0 | 0 | 0.44 | 3.57 | 617 | 3.4 | 648 |
| 120 | 0 | 0 | 0 | 0.44 | 3.69 | 598 | 3.6 | 612 |
| 130 | 0 | 0 | 0 | 0.44 | 3.8 | 580 | 3.79 | 581 |
| 167 | 0 | 0 | 0 | 0.44 | 4.22 | 523 | 4.22 | 523 |
| 212 | 0 | 0 | 0 | 0.44 | 4.69 | 470 | 4.69 | 470 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 7.29 | 3000 | 7.29 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 5.04 | 983 | 4.67 | 1061 |
| 30 | 0 | 0 | 0 | 0.44 | 5.9 | 840 | 5.51 | 900 |
| 40 | 0 | 0 | 0 | 0.44 | 6.17 | 803 | 5.78 | 858 |
| 50 | 0 | 0 | 0 | 0.44 | 6.43 | 771 | 6.04 | 821 |
| 60 | 0 | 0 | 0 | 0.44 | 6.69 | 742 | 6.29 | 788 |
| 70 | 0 | 0 | 0 | 0.44 | 6.94 | 715 | 6.54 | 758 |
| 80 | 0 | 0 | 0 | 0.44 | 7.18 | 691 | 6.78 | 732 |
| 90 | 0 | 0 | 0 | 0.44 | 7.41 | 670 | 7.02 | 707 |
| 100 | 0 | 0 | 0 | 0.44 | 7.55 | 657 | 7.25 | 685 |
| 110 | 0 | 0 | 0 | 0.44 | 7.69 | 646 | 7.47 | 664 |
| 120 | 0 | 0 | 0 | 0.44 | 7.83 | 634 | 7.69 | 645 |
| 130 | 0 | 0 | 0 | 0.44 | 7.96 | 624 | 7.9 | 628 |
| 167 | 0 | 0 | 0 | 0.44 | 8.45 | 588 | 8.45 | 588 |
| 212 | 0 | 0 | 0 | 0.44 | 9.02 | 551 | 9.02 | 551 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 12.99 | 3000 | 12.99 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 10.78 | 819 | 10.41 | 848 |
| 30 | 0 | 0 | 0 | 0.44 | 11.6 | 761 | 11.21 | 787 |
| 40 | 0 | 0 | 0 | 0.44 | 11.87 | 744 | 11.47 | 770 |
| 50 | 0 | 0 | 0 | 0.44 | 12.12 | 729 | 11.73 | 753 |
| 60 | 0 | 0 | 0 | 0.44 | 12.38 | 714 | 11.98 | 737 |
| 70 | 0 | 0 | 0 | 0.44 | 12.63 | 700 | 12.22 | 723 |
| 80 | 0 | 0 | 0 | 0.44 | 12.87 | 687 | 12.47 | 709 |
| 90 | 0 | 0 | 0 | 0.44 | 13.11 | 674 | 12.71 | 695 |
| 100 | 0 | 0 | 0 | 0.44 | 13.27 | 666 | 12.94 | 683 |
| 110 | 0 | 0 | 0 | 0.44 | 13.42 | 659 | 13.17 | 671 |
| 120 | 0 | 0 | 0 | 0.44 | 13.56 | 652 | 13.4 | 660 |
| 130 | 0 | 0 | 0 | 0.44 | 13.71 | 645 | 13.63 | 649 |
| 167 | 0 | 0 | 0 | 0.44 | 14.24 | 621 | 14.24 | 621 |
| 212 | 0 | 0 | 0 | 0.44 | 14.87 | 595 | 14.87 | 595 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.941 | 20.35 | 3000 | 20.35 | 3000* |
| 0 | 0 | 0 | 0 | 0.44 | 18.17 | 761 | 17.8 | 776 |
| 30 | 0 | 0 | 0 | 0.44 | 18.96 | 729 | 18.58 | 744 |
| 40 | 0 | 0 | 0 | 0.44 | 19.22 | 720 | 18.83 | 734 |
| 50 | 0 | 0 | 0 | 0.44 | 19.48 | 710 | 19.08 | 725 |
| 60 | 0 | 0 | 0 | 0.44 | 19.73 | 701 | 19.33 | 716 |
| 70 | 0 | 0 | 0 | 0.44 | 19.98 | 693 | 19.58 | 707 |
| 80 | 0 | 0 | 0 | 0.44 | 20.22 | 684 | 19.82 | 698 |
| 90 | 0 | 0 | 0 | 0.44 | 20.47 | 676 | 20.06 | 690 |
| 100 | 0 | 0 | 0 | 0.44 | 20.63 | 671 | 20.3 | 682 |
| 110 | 0 | 0 | 0 | 0.44 | 20.79 | 666 | 20.53 | 674 |
| 120 | 0 | 0 | 0 | 0.44 | 20.94 | 661 | 20.77 | 667 |
| 130 | 0 | 0 | 0 | 0.44 | 21.09 | 656 | 21 | 659 |
| 167 | 0 | 0 | 0 | 0.44 | 21.65 | 640 | 21.65 | 640 |
| 212 | 0 | 0 | 0 | 0.44 | 22.32 | 621 | 22.32 | 621 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-5 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-1 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-5 | 2-10 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-9 | 2-1 | 2-7 | 3-1 | 3-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 1-0 | 1-3 | 1-4 | 1-6 | 1-7 |
| 150.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 1-11 | 2-1 | 2-3 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-3 | 1-6 | 1-11 | 2-5 | 2-8 | 2-10 | 3-1 |
| 200.00 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-6 | 3-1 | 3-6 | 3-9 | 4-0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS



TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 175.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 200.00 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 |
| 225.00 | 1-10 | 2-1 | 2-4 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-4 |
| 250.00 | 2-3 | 2-7 | 2-11 | 3-3 | 3-7 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 1-11 | 2-0 |
| 175.00 | 1-3 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-8 | 2-9 |
| 200.00 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-4 | 3-5 | 3-7 |
| 225.00 | 2-2 | 2-5 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-4 | 4-6 |
| 250.00 | 2-8 | 3-0 | 3-5 | 3-9 | 4-2 | 4-6 | 4-11 | 5-3 | 5-5 | 5-7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 |
| 175.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 |
| 200.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 |
| 225.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 |
| 250.00 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 |
| 275.00 | 4-5 | 4-8 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 |
| 300.00 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 |
| 325.00 | 6-2 | 6-6 | 6-9 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 | 8-6 | 8-9 |
| 350.00 | 7-2 | 7-6 | 7-10 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 | 9-10 | 10-2 |
| 375.00 | 8-2 | 8-7 | 9-0 | 9-5 | 9-10 | 10-3 | 10-7 | 11-0 | 11-4 | 11-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 |
| 200.00 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 225.00 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 |
| 250.00 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 | 5-4 |
| 275.00 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 | 6-3 | 6-4 | 6-6 |
| 300.00 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-8 |
| 325.00 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 8-10 | 9-0 |
| 350.00 | 7-8 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-3 | 10-6 |
| 375.00 | 8-9 | 9-3 | 9-8 | 10-1 | 10-5 | 10-10 | 11-3 | 11-7 | 11-10 | 12-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 |
| 225.00 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 250.00 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 |
| 275.00 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-3 |
| 300.00 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 |
| 325.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 |
| 350.00 | 8-5 | 8-7 | 8-9 | 9-0 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 |
| 375.00 | 9-7 | 9-10 | 10-1 | 10-4 | 10-6 | 10-9 | 10-11 | 11-2 | 11-4 | 11-7 |
| 400.00 | 10-11 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-8 | 12-11 | 13-2 |
| 425.00 | 12-4 | 12-8 | 12-11 | 13-3 | 13-6 | 13-10 | 14-1 | 14-4 | 14-7 | 14-10 |
| 450.00 | 13-10 | 14-2 | 14-6 | 14-10 | 15-2 | 15-6 | 15-9 | 16-1 | 16-5 | 16-8 |
| 475.00 | 15-5 | 15-10 | 16-2 | 16-7 | 16-11 | 17-3 | 17-7 | 17-11 | 18-3 | 18-7 |
| 500.00 | 17-1 | 17-6 | 17-11 | 18-4 | 18-9 | 19-1 | 19-6 | 19-10 | 20-3 | 20-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 |
| 225.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 |
| 250.00 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 275.00 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 300.00 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 |
| 325.00 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-10 |
| 350.00 | 8-8 | 8-11 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-3 |
| 375.00 | 10-0 | 10-2 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-6 | 11-8 | 11-9 |
| 400.00 | 11-4 | 11-7 | 11-10 | 12-1 | 12-5 | 12-8 | 12-10 | 13-1 | 13-3 | 13-5 |
| 425.00 | 12-10 | 13-1 | 13-5 | 13-8 | 14-0 | 14-3 | 14-6 | 14-10 | 15-0 | 15-2 |
| 450.00 | 14-4 | 14-8 | 15-0 | 15-4 | 15-8 | 16-0 | 16-4 | 16-7 | 16-10 | 17-0 |
| 475.00 | 16-0 | 16-4 | 16-9 | 17-1 | 17-6 | 17-10 | 18-2 | 18-6 | 18-9 | 18-11 |
| 500.00 | 17-9 | 18-2 | 18-7 | 18-11 | 19-4 | 19-9 | 20-1 | 20-6 | 20-9 | 21-0 |

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| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 |
| 275.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 |
| 300.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 |
| 325.00 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 |
| 350.00 | 9-0 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 |
| 375.00 | 10-4 | 10-5 | 10-7 | 10-9 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 |
| 400.00 | 11-9 | 11-11 | 12-1 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 |
| 425.00 | 13-3 | 13-5 | 13-7 | 13-9 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 |
| 450.00 | 14-10 | 15-1 | 15-3 | 15-5 | 15-8 | 15-10 | 16-1 | 16-3 | 16-5 | 16-7 |
| 475.00 | 16-6 | 16-9 | 17-0 | 17-3 | 17-5 | 17-8 | 17-11 | 18-1 | 18-4 | 18-6 |
| 500.00 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-1 | 20-4 | 20-6 |
| 525.00 | 20-2 | 20-6 | 20-9 | 21-1 | 21-4 | 21-7 | 21-10 | 22-1 | 22-5 | 22-8 |
| 550.00 | 22-2 | 22-6 | 22-10 | 23-1 | 23-5 | 23-8 | 24-0 | 24-3 | 24-7 | 24-10 |
| 575.00 | 24-3 | 24-7 | 24-11 | 25-3 | 25-7 | 25-11 | 26-3 | 26-7 | 26-10 | 27-2 |
| 600.00 | 26-5 | 26-9 | 27-2 | 27-6 | 27-10 | 28-3 | 28-7 | 28-11 | 29-3 | 29-7 |
| 625.00 | 28-8 | 29-1 | 29-5 | 29-10 | 30-3 | 30-7 | 31-0 | 31-5 | 31-9 | 32-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 |
| 275.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 |
| 300.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 |
| 325.00 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 | 8-8 | 8-9 |
| 350.00 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 |
| 375.00 | 10-6 | 10-8 | 10-10 | 10-11 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 |
| 400.00 | 12-0 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 |
| 425.00 | 13-6 | 13-8 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-0 |
| 450.00 | 15-2 | 15-4 | 15-7 | 15-9 | 16-0 | 16-2 | 16-5 | 16-7 | 16-8 | 16-10 |
| 475.00 | 16-11 | 17-1 | 17-4 | 17-7 | 17-10 | 18-0 | 18-3 | 18-6 | 18-7 | 18-9 |
| 500.00 | 18-8 | 19-0 | 19-3 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 | 20-8 | 20-9 |
| 525.00 | 20-7 | 20-11 | 21-2 | 21-6 | 21-9 | 22-0 | 22-4 | 22-7 | 22-9 | 22-11 |
| 550.00 | 22-8 | 22-11 | 23-3 | 23-7 | 23-11 | 24-2 | 24-6 | 24-9 | 25-0 | 25-2 |
| 575.00 | 24-9 | 25-1 | 25-5 | 25-9 | 26-1 | 26-5 | 26-9 | 27-1 | 27-4 | 27-6 |
| 600.00 | 26-11 | 27-4 | 27-8 | 28-1 | 28-5 | 28-10 | 29-2 | 29-6 | 29-9 | 30-0 |
| 625.00 | 29-3 | 29-8 | 30-1 | 30-6 | 30-10 | 31-3 | 31-8 | 32-0 | 32-3 | 32-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 397.5 - 26/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

TABLE OF CONTENTS


G.O. 95 LIGHT LOADING CONDITION
- 1000 LB TENSION ---------- 811.3
- 1500 LB TENSION ---------- 811.11
- 2000 LB TENSION ---------- 811.19
- 2500 LB TENSION ---------- 811.27
- 3000 LB TENSION ---------- 811.35

G.O. 95 HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 811.43
- 1500 LB TENSION ---------- 811.51
- 2000 LB TENSION ---------- 811.59
- 2500 LB TENSION ---------- 811.67
- 3000 LB TENSION ---------- 811.75

SDG&E EXTRA HEAVY LOADING CONDITION
- 1000 LB TENSION ---------- 811.83
- 1500 LB TENSION ---------- 811.89
- 2000 LB TENSION ---------- 811.97
- 2500 LB TENSION ---------- 811.105
- 3000 LB TENSION ---------- 811.113

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 811.121
- 1500 LB TENSION ---------- 811.129
- 2000 LB TENSION ---------- 811.137
- 2500 LB TENSION ---------- 811.145
- 3000 LB TENSION ---------- 811.153

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 811.161
- 1500 LB TENSION ---------- 811.169
- 2000 LB TENSION ---------- 811.177
- 2500 LB TENSION ---------- 811.185
- 3000 LB TENSION ---------- 811.193

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
- 1000 LB TENSION ---------- 811.201
- 1500 LB TENSION ---------- 811.209
- 2000 LB TENSION ---------- 811.217
- 2500 LB TENSION ---------- 811.225
- 3000 LB TENSION ---------- 811.233


TABLE OF CONTENTS CONTINUED ON NEXT PAGE

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised [X] | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

397.5 - 26/7 ACSR/AW TABLE OF CONTENTS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 397.5 - 26/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 811.241
1500 LB TENSION ---------- 811.249
2000 LB TENSION ---------- 811.257
2500 LB TENSION ---------- 811.265
3000 LB TENSION ---------- 811.273

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 811.281
1500 LB TENSION ---------- 811.289
2000 LB TENSION ---------- 811.297
2500 LB TENSION ---------- 811.305
3000 LB TENSION ---------- 811.313

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 811.321
1500 LB TENSION ---------- 811.329
2000 LB TENSION ---------- 811.337
2500 LB TENSION ---------- 811.345
3000 LB TENSION ---------- 811.353


TABLE OF CONTENTS

**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

397.5 - 26/7 ACSR/AW TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 0.95 | 974 | 0.92 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 0.84 | 775 | 0.8 | 812 |
| 30 | 0 | 0 | 0 | 0.52 | 0.92 | 708 | 0.87 | 745 |
| 40 | 0 | 0 | 0 | 0.52 | 1.07 | 607 | 1.02 | 639 |
| 50 | 0 | 0 | 0 | 0.52 | 1.22 | 534 | 1.16 | 561 |
| 60 | 0 | 0 | 0 | 0.52 | 1.35 | 480 | 1.29 | 503 |
| 70 | 0 | 0 | 0 | 0.52 | 1.48 | 439 | 1.42 | 458 |
| 80 | 0 | 0 | 0 | 0.52 | 1.6 | 406 | 1.54 | 423 |
| 90 | 0 | 0 | 0 | 0.52 | 1.67 | 390 | 1.65 | 394 |
| 100 | 0 | 0 | 0 | 0.52 | 1.74 | 374 | 1.74 | 374 |
| 110 | 0 | 0 | 0 | 0.52 | 1.81 | 360 | 1.81 | 360 |
| 120 | 0 | 0 | 0 | 0.52 | 1.87 | 348 | 1.87 | 348 |
| 130 | 0 | 0 | 0 | 0.52 | 1.94 | 336 | 1.94 | 336 |
| 167 | 0 | 0 | 0 | 0.52 | 2.16 | 302 | 2.16 | 302 |
| 212 | 0 | 0 | 0 | 0.52 | 2.41 | 271 | 2.41 | 271 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 3.76 | 980 | 3.69 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 3.63 | 718 | 3.53 | 738 |
| 30 | 0 | 0 | 0 | 0.52 | 3.73 | 698 | 3.63 | 718 |
| 40 | 0 | 0 | 0 | 0.52 | 3.92 | 664 | 3.81 | 683 |
| 50 | 0 | 0 | 0 | 0.52 | 4.11 | 634 | 4 | 651 |
| 60 | 0 | 0 | 0 | 0.52 | 4.29 | 607 | 4.17 | 624 |
| 70 | 0 | 0 | 0 | 0.52 | 4.46 | 584 | 4.35 | 599 |
| 80 | 0 | 0 | 0 | 0.52 | 4.63 | 563 | 4.51 | 577 |
| 90 | 0 | 0 | 0 | 0.52 | 4.79 | 544 | 4.67 | 557 |
| 100 | 0 | 0 | 0 | 0.52 | 4.89 | 533 | 4.83 | 539 |
| 110 | 0 | 0 | 0 | 0.52 | 4.99 | 522 | 4.99 | 523 |
| 120 | 0 | 0 | 0 | 0.52 | 5.09 | 512 | 5.09 | 512 |
| 130 | 0 | 0 | 0 | 0.52 | 5.19 | 502 | 5.19 | 502 |
| 167 | 0 | 0 | 0 | 0.52 | 5.53 | 471 | 5.53 | 471 |
| 212 | 0 | 0 | 0 | 0.52 | 5.93 | 440 | 5.93 | 440 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 8.41 | 989 | 8.31 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 8.27 | 710 | 8.15 | 720 |
| 30 | 0 | 0 | 0 | 0.52 | 8.37 | 701 | 8.25 | 711 |
| 40 | 0 | 0 | 0 | 0.52 | 8.58 | 684 | 8.45 | 695 |
| 50 | 0 | 0 | 0 | 0.52 | 8.78 | 669 | 8.65 | 679 |
| 60 | 0 | 0 | 0 | 0.52 | 8.98 | 654 | 8.84 | 664 |
| 70 | 0 | 0 | 0 | 0.52 | 9.17 | 640 | 9.03 | 650 |
| 80 | 0 | 0 | 0 | 0.52 | 9.36 | 627 | 9.22 | 637 |
| 90 | 0 | 0 | 0 | 0.52 | 9.55 | 615 | 9.4 | 625 |
| 100 | 0 | 0 | 0 | 0.52 | 9.7 | 605 | 9.58 | 613 |
| 110 | 0 | 0 | 0 | 0.52 | 9.82 | 598 | 9.76 | 602 |
| 120 | 0 | 0 | 0 | 0.52 | 9.93 | 591 | 9.93 | 591 |
| 130 | 0 | 0 | 0 | 0.52 | 10.05 | 585 | 10.05 | 585 |
| 167 | 0 | 0 | 0 | 0.52 | 10.47 | 562 | 10.47 | 562 |
| 212 | 0 | 0 | 0 | 0.52 | 10.95 | 537 | 10.95 | 537 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 14.92 | 993 | 14.82 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 14.78 | 708 | 14.64 | 714 |
| 30 | 0 | 0 | 0 | 0.52 | 14.88 | 703 | 14.75 | 709 |
| 40 | 0 | 0 | 0 | 0.52 | 15.09 | 693 | 14.95 | 699 |
| 50 | 0 | 0 | 0 | 0.52 | 15.3 | 684 | 15.16 | 690 |
| 60 | 0 | 0 | 0 | 0.52 | 15.51 | 675 | 15.36 | 681 |
| 70 | 0 | 0 | 0 | 0.52 | 15.71 | 666 | 15.56 | 673 |
| 80 | 0 | 0 | 0 | 0.52 | 15.91 | 658 | 15.75 | 664 |
| 90 | 0 | 0 | 0 | 0.52 | 16.11 | 650 | 15.95 | 656 |
| 100 | 0 | 0 | 0 | 0.52 | 16.3 | 642 | 16.14 | 649 |
| 110 | 0 | 0 | 0 | 0.52 | 16.43 | 637 | 16.33 | 641 |
| 120 | 0 | 0 | 0 | 0.52 | 16.55 | 633 | 16.52 | 634 |
| 130 | 0 | 0 | 0 | 0.52 | 16.68 | 628 | 16.68 | 628 |
| 167 | 0 | 0 | 0 | 0.52 | 17.14 | 611 | 17.14 | 611 |
| 212 | 0 | 0 | 0 | 0.52 | 17.68 | 593 | 17.68 | 593 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 23.34 | 995 | 23.22 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 23.19 | 707 | 23.05 | 711 |
| 30 | 0 | 0 | 0 | 0.52 | 23.29 | 704 | 23.15 | 708 |
| 40 | 0 | 0 | 0 | 0.52 | 23.51 | 697 | 23.36 | 702 |
| 50 | 0 | 0 | 0 | 0.52 | 23.72 | 691 | 23.57 | 696 |
| 60 | 0 | 0 | 0 | 0.52 | 23.93 | 685 | 23.77 | 690 |
| 70 | 0 | 0 | 0 | 0.52 | 24.14 | 679 | 23.98 | 684 |
| 80 | 0 | 0 | 0 | 0.52 | 24.35 | 674 | 24.18 | 678 |
| 90 | 0 | 0 | 0 | 0.52 | 24.55 | 668 | 24.38 | 673 |
| 100 | 0 | 0 | 0 | 0.52 | 24.75 | 663 | 24.58 | 668 |
| 110 | 0 | 0 | 0 | 0.52 | 24.89 | 659 | 24.78 | 662 |
| 120 | 0 | 0 | 0 | 0.52 | 25.02 | 656 | 24.97 | 657 |
| 130 | 0 | 0 | 0 | 0.52 | 25.16 | 652 | 25.16 | 652 |
| 167 | 0 | 0 | 0 | 0.52 | 25.64 | 640 | 25.64 | 640 |
| 212 | 0 | 0 | 0 | 0.52 | 26.21 | 627 | 26.21 | 627 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-2 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 |
| 150.00 | 1-8 | 2-0 | 2-3 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 | 3-11 | 4-1 |
| 175.00 | 2-3 | 2-8 | 3-1 | 3-7 | 4-0 | 4-4 | 4-9 | 5-1 | 5-4 | 5-7 |
| 200.00 | 2-11 | 3-6 | 4-1 | 4-8 | 5-2 | 5-8 | 6-2 | 6-7 | 7-0 | 7-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-2 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 150.00 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 |
| 175.00 | 2-4 | 2-10 | 3-3 | 3-9 | 4-2 | 4-7 | 4-11 | 5-1 | 5-4 | 5-7 |
| 200.00 | 3-1 | 3-8 | 4-3 | 4-10 | 5-5 | 5-11 | 6-5 | 6-8 | 7-0 | 7-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 |
| 175.00 | 2-8 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 |
| 200.00 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 225.00 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-1 | 6-4 |
| 250.00 | 5-4 | 5-8 | 6-0 | 6-3 | 6-6 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 |
| 150.00 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 175.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 |
| 200.00 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 4-11 | 5-0 |
| 225.00 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-2 | 6-4 |
| 250.00 | 5-6 | 5-10 | 6-2 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-8 | 7-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.7

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 175.00 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 |
| 200.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 225.00 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 |
| 250.00 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 |
| 275.00 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-2 |
| 300.00 | 8-1 | 8-3 | 8-5 | 8-8 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-9 |
| 325.00 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 | 11-0 | 11-3 | 11-5 |
| 350.00 | 10-11 | 11-3 | 11-6 | 11-9 | 12-0 | 12-4 | 12-7 | 12-10 | 13-1 | 13-3 |
| 375.00 | 12-7 | 12-11 | 13-3 | 13-6 | 13-10 | 14-1 | 14-5 | 14-8 | 15-0 | 15-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-5 |
| 175.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 |
| 200.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 |
| 225.00 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 250.00 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-10 |
| 275.00 | 6-10 | 7-0 | 7-2 | 7-5 | 7-7 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 |
| 300.00 | 8-2 | 8-4 | 8-7 | 8-9 | 9-0 | 9-2 | 9-4 | 9-7 | 9-8 | 9-10 |
| 325.00 | 9-7 | 9-10 | 10-1 | 10-4 | 10-6 | 10-9 | 11-0 | 11-3 | 11-5 | 11-6 |
| 350.00 | 11-1 | 11-5 | 11-8 | 11-11 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-4 |
| 375.00 | 12-9 | 13-1 | 13-5 | 13-9 | 14-0 | 14-4 | 14-8 | 14-11 | 15-2 | 15-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.8

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 |
| 225.00 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 |
| 250.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 |
| 275.00 | 6-10 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-9 |
| 300.00 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 |
| 325.00 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 |
| 350.00 | 11-2 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-2 | 12-4 | 12-6 |
| 375.00 | 12-9 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 |
| 400.00 | 14-6 | 14-9 | 14-11 | 15-2 | 15-4 | 15-7 | 15-9 | 15-11 | 16-2 | 16-4 |
| 425.00 | 16-5 | 16-8 | 16-11 | 17-1 | 17-4 | 17-7 | 17-9 | 18-0 | 18-3 | 18-5 |
| 450.00 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 | 20-5 | 20-8 |
| 475.00 | 20-6 | 20-10 | 21-1 | 21-5 | 21-8 | 21-11 | 22-3 | 22-6 | 22-9 | 23-1 |
| 500.00 | 22-9 | 23-1 | 23-5 | 23-9 | 24-0 | 24-4 | 24-8 | 24-11 | 25-3 | 25-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 |
| 225.00 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 |
| 250.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 |
| 275.00 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 |
| 300.00 | 8-3 | 8-4 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 |
| 325.00 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-9 | 10-10 |
| 350.00 | 11-3 | 11-5 | 11-7 | 11-9 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-7 |
| 375.00 | 12-11 | 13-1 | 13-3 | 13-5 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-5 |
| 400.00 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 | 15-11 | 16-1 | 16-4 | 16-5 |
| 425.00 | 16-7 | 16-10 | 17-1 | 17-3 | 17-6 | 17-9 | 18-0 | 18-2 | 18-5 | 18-7 |
| 450.00 | 18-7 | 18-10 | 19-1 | 19-5 | 19-8 | 19-11 | 20-2 | 20-5 | 20-8 | 20-10 |
| 475.00 | 20-8 | 21-0 | 21-4 | 21-7 | 21-11 | 22-2 | 22-6 | 22-9 | 23-0 | 23-2 |
| 500.00 | 22-11 | 23-3 | 23-7 | 23-11 | 24-3 | 24-7 | 24-11 | 25-2 | 25-6 | 25-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 |
| 275.00 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 |
| 300.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 |
| 325.00 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 |
| 350.00 | 11-3 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 375.00 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 | 13-6 | 13-7 | 13-8 | 13-10 | 13-11 |
| 400.00 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 | 15-9 | 15-10 |
| 425.00 | 16-7 | 16-9 | 16-10 | 17-0 | 17-2 | 17-4 | 17-5 | 17-7 | 17-9 | 17-11 |
| 450.00 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 |
| 475.00 | 20-8 | 20-11 | 21-1 | 21-3 | 21-5 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 |
| 500.00 | 22-11 | 23-2 | 23-4 | 23-7 | 23-9 | 24-0 | 24-2 | 24-5 | 24-7 | 24-9 |
| 525.00 | 25-4 | 25-6 | 25-9 | 26-0 | 26-3 | 26-5 | 26-8 | 26-11 | 27-1 | 27-4 |
| 550.00 | 27-9 | 28-0 | 28-3 | 28-6 | 28-9 | 29-0 | 29-3 | 29-6 | 29-9 | 30-0 |
| 575.00 | 30-4 | 30-8 | 30-11 | 31-2 | 31-6 | 31-9 | 32-0 | 32-3 | 32-6 | 32-10 |
| 600.00 | 33-1 | 33-5 | 33-8 | 34-0 | 34-3 | 34-7 | 34-10 | 35-2 | 35-5 | 35-9 |
| 625.00 | 35-11 | 36-3 | 36-7 | 36-11 | 37-3 | 37-6 | 37-10 | 38-2 | 38-6 | 38-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 |
| 275.00 | 7-0 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-6 | 7-6 |
| 300.00 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 |
| 325.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 |
| 350.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 375.00 | 13-0 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-11 | 14-0 |
| 400.00 | 14-9 | 14-11 | 15-0 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 | 15-10 | 15-11 |
| 425.00 | 16-8 | 16-10 | 17-0 | 17-1 | 17-3 | 17-5 | 17-7 | 17-9 | 17-10 | 18-0 |
| 450.00 | 18-8 | 18-10 | 19-0 | 19-2 | 19-4 | 19-6 | 19-9 | 19-10 | 20-0 | 20-2 |
| 475.00 | 20-10 | 21-0 | 21-3 | 21-5 | 21-7 | 21-9 | 22-0 | 22-2 | 22-4 | 22-5 |
| 500.00 | 23-1 | 23-4 | 23-6 | 23-9 | 23-11 | 24-2 | 24-4 | 24-7 | 24-9 | 24-11 |
| 525.00 | 25-5 | 25-8 | 25-11 | 26-2 | 26-5 | 26-7 | 26-10 | 27-1 | 27-4 | 27-5 |
| 550.00 | 27-11 | 28-2 | 28-6 | 28-9 | 29-0 | 29-3 | 29-6 | 29-9 | 30-0 | 30-2 |
| 575.00 | 30-7 | 30-10 | 31-1 | 31-5 | 31-8 | 31-11 | 32-3 | 32-6 | 32-9 | 32-11 |
| 600.00 | 33-3 | 33-7 | 33-11 | 34-2 | 34-6 | 34-10 | 35-1 | 35-5 | 35-8 | 35-11 |
| 625.00 | 36-1 | 36-5 | 36-10 | 37-2 | 37-5 | 37-9 | 38-1 | 38-5 | 38-9 | 39-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 0.95 | 974 | 0.92 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 0.84 | 775 | 0.8 | 812 |
| 30 | 0 | 0 | 0 | 0.52 | 0.92 | 708 | 0.87 | 745 |
| 40 | 0 | 0 | 0 | 0.52 | 1.07 | 607 | 1.02 | 639 |
| 50 | 0 | 0 | 0 | 0.52 | 1.22 | 534 | 1.16 | 561 |
| 60 | 0 | 0 | 0 | 0.52 | 1.35 | 480 | 1.29 | 503 |
| 70 | 0 | 0 | 0 | 0.52 | 1.48 | 439 | 1.42 | 458 |
| 80 | 0 | 0 | 0 | 0.52 | 1.6 | 406 | 1.54 | 423 |
| 90 | 0 | 0 | 0 | 0.52 | 1.67 | 390 | 1.65 | 394 |
| 100 | 0 | 0 | 0 | 0.52 | 1.74 | 374 | 1.74 | 374 |
| 110 | 0 | 0 | 0 | 0.52 | 1.81 | 360 | 1.81 | 360 |
| 120 | 0 | 0 | 0 | 0.52 | 1.87 | 348 | 1.87 | 348 |
| 130 | 0 | 0 | 0 | 0.52 | 1.94 | 336 | 1.94 | 336 |
| 167 | 0 | 0 | 0 | 0.52 | 2.16 | 302 | 2.16 | 302 |
| 212 | 0 | 0 | 0 | 0.52 | 2.41 | 271 | 2.41 | 271 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 3.76 | 980 | 3.69 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 3.63 | 718 | 3.53 | 738 |
| 30 | 0 | 0 | 0 | 0.52 | 3.73 | 698 | 3.63 | 718 |
| 40 | 0 | 0 | 0 | 0.52 | 3.92 | 664 | 3.81 | 683 |
| 50 | 0 | 0 | 0 | 0.52 | 4.11 | 634 | 4 | 651 |
| 60 | 0 | 0 | 0 | 0.52 | 4.29 | 607 | 4.17 | 624 |
| 70 | 0 | 0 | 0 | 0.52 | 4.46 | 584 | 4.35 | 599 |
| 80 | 0 | 0 | 0 | 0.52 | 4.63 | 563 | 4.51 | 577 |
| 90 | 0 | 0 | 0 | 0.52 | 4.79 | 544 | 4.67 | 557 |
| 100 | 0 | 0 | 0 | 0.52 | 4.89 | 533 | 4.83 | 539 |
| 110 | 0 | 0 | 0 | 0.52 | 4.99 | 522 | 4.99 | 523 |
| 120 | 0 | 0 | 0 | 0.52 | 5.09 | 512 | 5.09 | 512 |
| 130 | 0 | 0 | 0 | 0.52 | 5.19 | 502 | 5.19 | 502 |
| 167 | 0 | 0 | 0 | 0.52 | 5.53 | 471 | 5.53 | 471 |
| 212 | 0 | 0 | 0 | 0.52 | 5.93 | 440 | 5.93 | 440 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 8.41 | 989 | 8.31 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 8.27 | 710 | 8.15 | 720 |
| 30 | 0 | 0 | 0 | 0.52 | 8.37 | 701 | 8.25 | 711 |
| 40 | 0 | 0 | 0 | 0.52 | 8.58 | 684 | 8.45 | 695 |
| 50 | 0 | 0 | 0 | 0.52 | 8.78 | 669 | 8.65 | 679 |
| 60 | 0 | 0 | 0 | 0.52 | 8.98 | 654 | 8.84 | 664 |
| 70 | 0 | 0 | 0 | 0.52 | 9.17 | 640 | 9.03 | 650 |
| 80 | 0 | 0 | 0 | 0.52 | 9.36 | 627 | 9.22 | 637 |
| 90 | 0 | 0 | 0 | 0.52 | 9.55 | 615 | 9.4 | 625 |
| 100 | 0 | 0 | 0 | 0.52 | 9.7 | 605 | 9.58 | 613 |
| 110 | 0 | 0 | 0 | 0.52 | 9.82 | 598 | 9.76 | 602 |
| 120 | 0 | 0 | 0 | 0.52 | 9.93 | 591 | 9.93 | 591 |
| 130 | 0 | 0 | 0 | 0.52 | 10.05 | 585 | 10.05 | 585 |
| 167 | 0 | 0 | 0 | 0.52 | 10.47 | 562 | 10.47 | 562 |
| 212 | 0 | 0 | 0 | 0.52 | 10.95 | 537 | 10.95 | 537 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 14.92 | 993 | 14.82 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 14.78 | 708 | 14.64 | 714 |
| 30 | 0 | 0 | 0 | 0.52 | 14.88 | 703 | 14.75 | 709 |
| 40 | 0 | 0 | 0 | 0.52 | 15.09 | 693 | 14.95 | 699 |
| 50 | 0 | 0 | 0 | 0.52 | 15.3 | 684 | 15.16 | 690 |
| 60 | 0 | 0 | 0 | 0.52 | 15.51 | 675 | 15.36 | 681 |
| 70 | 0 | 0 | 0 | 0.52 | 15.71 | 666 | 15.56 | 673 |
| 80 | 0 | 0 | 0 | 0.52 | 15.91 | 658 | 15.75 | 664 |
| 90 | 0 | 0 | 0 | 0.52 | 16.11 | 650 | 15.95 | 656 |
| 100 | 0 | 0 | 0 | 0.52 | 16.3 | 642 | 16.14 | 649 |
| 110 | 0 | 0 | 0 | 0.52 | 16.43 | 637 | 16.33 | 641 |
| 120 | 0 | 0 | 0 | 0.52 | 16.55 | 633 | 16.52 | 634 |
| 130 | 0 | 0 | 0 | 0.52 | 16.68 | 628 | 16.68 | 628 |
| 167 | 0 | 0 | 0 | 0.52 | 17.14 | 611 | 17.14 | 611 |
| 212 | 0 | 0 | 0 | 0.52 | 17.68 | 593 | 17.68 | 593 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 23.34 | 995 | 23.22 | 1000* |
| 25 | 0 | 0 | 0 | 0.52 | 23.19 | 707 | 23.05 | 711 |
| 30 | 0 | 0 | 0 | 0.52 | 23.29 | 704 | 23.15 | 708 |
| 40 | 0 | 0 | 0 | 0.52 | 23.51 | 697 | 23.36 | 702 |
| 50 | 0 | 0 | 0 | 0.52 | 23.72 | 691 | 23.57 | 696 |
| 60 | 0 | 0 | 0 | 0.52 | 23.93 | 685 | 23.77 | 690 |
| 70 | 0 | 0 | 0 | 0.52 | 24.14 | 679 | 23.98 | 684 |
| 80 | 0 | 0 | 0 | 0.52 | 24.35 | 674 | 24.18 | 678 |
| 90 | 0 | 0 | 0 | 0.52 | 24.55 | 668 | 24.38 | 673 |
| 100 | 0 | 0 | 0 | 0.52 | 24.75 | 663 | 24.58 | 668 |
| 110 | 0 | 0 | 0 | 0.52 | 24.89 | 659 | 24.78 | 662 |
| 120 | 0 | 0 | 0 | 0.52 | 25.02 | 656 | 24.97 | 657 |
| 130 | 0 | 0 | 0 | 0.52 | 25.16 | 652 | 25.16 | 652 |
| 167 | 0 | 0 | 0 | 0.52 | 25.64 | 640 | 25.64 | 640 |
| 212 | 0 | 0 | 0 | 0.52 | 26.21 | 627 | 26.21 | 627 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 3 | 0- 4 | 0- 4 | 0- 5 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-10 |
| 100.00 | 0- 5 | 0- 6 | 0- 8 | 0- 9 | 0-11 | 1- 1 | 1- 3 | 1- 4 | 1- 6 | 1- 7 |
| 125.00 | 0- 8 | 0-10 | 1- 0 | 1- 3 | 1- 5 | 1- 8 | 1-11 | 2- 1 | 2- 3 | 2- 5 |
| 150.00 | 1- 0 | 1- 2 | 1- 5 | 1- 9 | 2- 1 | 2- 5 | 2- 9 | 3- 0 | 3- 4 | 3- 6 |
| 175.00 | 1- 4 | 1- 7 | 2- 0 | 2- 5 | 2-10 | 3- 3 | 3- 8 | 4- 1 | 4- 6 | 4- 9 |
| 200.00 | 1- 9 | 2- 1 | 2- 7 | 3- 1 | 3- 8 | 4- 3 | 4-10 | 5- 4 | 5-10 | 6- 2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 3 | 0- 4 | 0- 5 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0- 9 | 0-10 | 0-10 |
| 100.00 | 0- 5 | 0- 7 | 0- 9 | 0-10 | 1- 0 | 1- 2 | 1- 4 | 1- 5 | 1- 6 | 1- 7 |
| 125.00 | 0- 9 | 0-11 | 1- 1 | 1- 4 | 1- 7 | 1-10 | 2- 1 | 2- 2 | 2- 4 | 2- 5 |
| 150.00 | 1- 0 | 1- 3 | 1- 7 | 2- 0 | 2- 4 | 2- 8 | 2-11 | 3- 2 | 3- 4 | 3- 6 |
| 175.00 | 1- 5 | 1- 9 | 2- 2 | 2- 8 | 3- 2 | 3- 7 | 4- 0 | 4- 3 | 4- 6 | 4- 9 |
| 200.00 | 1-10 | 2- 3 | 2-10 | 3- 6 | 4- 1 | 4- 8 | 5- 3 | 5- 7 | 5-11 | 6- 2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 6 | 0- 7 | 0- 8 | 0- 8 | 0- 9 | 0-10 | 0-10 | 0-11 | 0-11 | 1- 0 |
| 125.00 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 |
| 150.00 | 1- 2 | 1- 3 | 1- 5 | 1- 6 | 1- 8 | 1- 9 | 1-11 | 2- 0 | 2- 1 | 2- 3 |
| 175.00 | 1- 7 | 1- 9 | 1-11 | 2- 1 | 2- 3 | 2- 5 | 2- 7 | 2- 9 | 2-11 | 3- 0 |
| 200.00 | 2- 1 | 2- 3 | 2- 6 | 2- 9 | 2-11 | 3- 2 | 3- 4 | 3- 7 | 3- 9 | 3-11 |
| 225.00 | 2- 7 | 2-11 | 3- 2 | 3- 6 | 3- 9 | 4- 0 | 4- 3 | 4- 6 | 4- 9 | 5- 0 |
| 250.00 | 3- 2 | 3- 7 | 3-11 | 4- 3 | 4- 7 | 4-11 | 5- 3 | 5- 7 | 5-11 | 6- 2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 0 | 1- 0 |
| 125.00 | 0-10 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 6 | 1- 7 |
| 150.00 | 1- 3 | 1- 5 | 1- 6 | 1- 8 | 1- 9 | 1-11 | 2- 0 | 2- 2 | 2- 3 | 2- 3 |
| 175.00 | 1- 8 | 1-11 | 2- 1 | 2- 3 | 2- 5 | 2- 7 | 2- 9 | 2-11 | 3- 0 | 3- 1 |
| 200.00 | 2- 3 | 2- 6 | 2- 8 | 2-11 | 3- 2 | 3- 5 | 3- 7 | 3- 9 | 3-11 | 4- 1 |
| 225.00 | 2-10 | 3- 1 | 3- 5 | 3- 9 | 4- 0 | 4- 3 | 4- 6 | 4- 9 | 5- 0 | 5- 1 |
| 250.00 | 3- 6 | 3-10 | 4- 3 | 4- 7 | 4-11 | 5- 3 | 5- 7 | 5-11 | 6- 2 | 6- 4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS



OH811.15

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1- 9 | 1-10 |
| 175.00 | 1- 9 | 1-10 | 1-11 | 2- 0 | 2- 1 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 6 |
| 200.00 | 2- 3 | 2- 4 | 2- 6 | 2- 7 | 2- 9 | 2-10 | 2-11 | 3- 1 | 3- 2 | 3- 3 |
| 225.00 | 2-10 | 3- 0 | 3- 2 | 3- 4 | 3- 5 | 3- 7 | 3- 9 | 3-10 | 4- 0 | 4- 1 |
| 250.00 | 3- 6 | 3- 8 | 3-11 | 4- 1 | 4- 3 | 4- 5 | 4- 7 | 4- 9 | 4-11 | 5- 1 |
| 275.00 | 4- 3 | 4- 6 | 4- 8 | 4-11 | 5- 2 | 5- 4 | 5- 7 | 5- 9 | 5-11 | 6- 2 |
| 300.00 | 5- 1 | 5- 4 | 5- 7 | 5-10 | 6- 1 | 6- 4 | 6- 7 | 6-10 | 7- 1 | 7- 4 |
| 325.00 | 5-11 | 6- 3 | 6- 7 | 6-11 | 7- 2 | 7- 6 | 7- 9 | 8- 1 | 8- 4 | 8- 7 |
| 350.00 | 6-10 | 7- 3 | 7- 7 | 8- 0 | 8- 4 | 8- 8 | 9- 0 | 9- 4 | 9- 8 | 10- 0 |
| 375.00 | 7-11 | 8- 4 | 8- 9 | 9- 2 | 9- 7 | 9-11 | 10- 4 | 10- 9 | 11- 1 | 11- 5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1- 4 | 1- 5 | 1- 6 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1- 9 | 1-10 | 1-11 |
| 175.00 | 1-10 | 1-11 | 2- 0 | 2- 1 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 6 | 2- 7 |
| 200.00 | 2- 4 | 2- 6 | 2- 7 | 2- 9 | 2-10 | 2-11 | 3- 1 | 3- 2 | 3- 3 | 3- 4 |
| 225.00 | 3- 0 | 3- 2 | 3- 4 | 3- 5 | 3- 7 | 3- 9 | 3-11 | 4- 0 | 4- 2 | 4- 3 |
| 250.00 | 3- 8 | 3-11 | 4- 1 | 4- 3 | 4- 5 | 4- 7 | 4-10 | 5- 0 | 5- 1 | 5- 3 |
| 275.00 | 4- 5 | 4- 8 | 4-11 | 5- 2 | 5- 5 | 5- 7 | 5-10 | 6- 0 | 6- 2 | 6- 4 |
| 300.00 | 5- 4 | 5- 7 | 5-10 | 6- 2 | 6- 5 | 6- 8 | 6-11 | 7- 2 | 7- 5 | 7- 7 |
| 325.00 | 6- 3 | 6- 7 | 6-11 | 7- 2 | 7- 6 | 7-10 | 8- 1 | 8- 5 | 8- 8 | 8-10 |
| 350.00 | 7- 3 | 7- 7 | 8- 0 | 8- 4 | 8- 9 | 9- 1 | 9- 5 | 9- 9 | 10- 1 | 10- 3 |
| 375.00 | 8- 3 | 8- 9 | 9- 2 | 9- 7 | 10- 0 | 10- 5 | 10- 9 | 11- 2 | 11- 6 | 11-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 | 2-11 |
| 225.00 | 2-11 | 3- 1 | 3- 2 | 3- 3 | 3- 4 | 3- 5 | 3- 6 | 3- 7 | 3- 8 | 3- 9 |
| 250.00 | 3- 8 | 3- 9 | 3-10 | 4- 0 | 4- 1 | 4- 2 | 4- 4 | 4- 5 | 4- 6 | 4- 7 |
| 275.00 | 4- 5 | 4- 7 | 4- 8 | 4-10 | 4-11 | 5- 1 | 5- 2 | 5- 4 | 5- 5 | 5- 7 |
| 300.00 | 5- 3 | 5- 5 | 5- 7 | 5- 9 | 5-11 | 6- 1 | 6- 2 | 6- 4 | 6- 6 | 6- 8 |
| 325.00 | 6- 2 | 6- 4 | 6- 7 | 6- 9 | 6-11 | 7- 1 | 7- 3 | 7- 5 | 7- 7 | 7- 9 |
| 350.00 | 7- 2 | 7- 4 | 7- 7 | 7-10 | 8- 0 | 8- 3 | 8- 5 | 8- 8 | 8-10 | 9- 0 |
| 375.00 | 8- 2 | 8- 5 | 8- 9 | 9- 0 | 9- 2 | 9- 5 | 9- 8 | 9-11 | 10- 2 | 10- 4 |
| 400.00 | 9- 4 | 9- 7 | 9-11 | 10- 2 | 10- 6 | 10- 9 | 11- 0 | 11- 3 | 11- 7 | 11-10 |
| 425.00 | 10- 6 | 10-10 | 11- 2 | 11- 6 | 11-10 | 12- 2 | 12- 5 | 12- 9 | 13- 0 | 13- 4 |
| 450.00 | 11-10 | 12- 2 | 12- 7 | 12-11 | 13- 3 | 13- 7 | 13-11 | 14- 3 | 14- 7 | 14-11 |
| 475.00 | 13- 2 | 13- 7 | 14- 0 | 14- 5 | 14- 9 | 15- 2 | 15- 7 | 15-11 | 16- 3 | 16- 8 |
| 500.00 | 14- 7 | 15- 1 | 15- 6 | 15-11 | 16- 5 | 16-10 | 17- 3 | 17- 8 | 18- 1 | 18- 5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 8 | 2- 9 | 2-10 | 2-11 | 3- 0 | 3- 0 |
| 225.00 | 3- 1 | 3- 2 | 3- 3 | 3- 4 | 3- 5 | 3- 6 | 3- 7 | 3- 8 | 3- 9 | 3-10 |
| 250.00 | 3- 9 | 3-11 | 4- 0 | 4- 1 | 4- 3 | 4- 4 | 4- 5 | 4- 6 | 4- 8 | 4- 9 |
| 275.00 | 4- 7 | 4- 8 | 4-10 | 5- 0 | 5- 1 | 5- 3 | 5- 4 | 5- 6 | 5- 7 | 5- 9 |
| 300.00 | 5- 5 | 5- 7 | 5- 9 | 5-11 | 6- 1 | 6- 3 | 6- 5 | 6- 6 | 6- 8 | 6-10 |
| 325.00 | 6- 4 | 6- 7 | 6- 9 | 6-11 | 7- 2 | 7- 4 | 7- 6 | 7- 8 | 7-10 | 8- 0 |
| 350.00 | 7- 4 | 7- 7 | 7-10 | 8- 1 | 8- 3 | 8- 6 | 8- 8 | 8-11 | 9- 1 | 9- 4 |
| 375.00 | 8- 6 | 8- 9 | 9- 0 | 9- 3 | 9- 6 | 9- 9 | 10- 0 | 10- 3 | 10- 5 | 10- 8 |
| 400.00 | 9- 7 | 9-11 | 10- 3 | 10- 6 | 10-10 | 11- 1 | 11- 4 | 11- 7 | 11-11 | 12- 2 |
| 425.00 | 10-10 | 11- 3 | 11- 7 | 11-11 | 12- 2 | 12- 6 | 12-10 | 13- 1 | 13- 5 | 13- 9 |
| 450.00 | 12- 2 | 12- 7 | 12-11 | 13- 4 | 13- 8 | 14- 0 | 14- 4 | 14- 9 | 15- 1 | 15- 4 |
| 475.00 | 13- 7 | 14- 0 | 14- 5 | 14-10 | 15- 3 | 15- 8 | 16- 0 | 16- 5 | 16- 9 | 17- 2 |
| 500.00 | 15- 1 | 15- 6 | 16- 0 | 16- 5 | 16-11 | 17- 4 | 17- 9 | 18- 2 | 18- 7 | 19- 0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3- 9 | 3- 9 | 3-10 | 3-11 | 4- 0 | 4- 1 | 4- 2 | 4- 3 | 4- 4 | 4- 4 |
| 275.00 | 4- 6 | 4- 7 | 4- 8 | 4- 9 | 4-10 | 4-11 | 5- 0 | 5- 1 | 5- 2 | 5- 3 |
| 300.00 | 5- 4 | 5- 6 | 5- 7 | 5- 8 | 5- 9 | 5-11 | 6- 0 | 6- 1 | 6- 2 | 6- 3 |
| 325.00 | 6- 3 | 6- 5 | 6- 6 | 6- 8 | 6- 9 | 6-11 | 7- 0 | 7- 2 | 7- 3 | 7- 4 |
| 350.00 | 7- 3 | 7- 5 | 7- 7 | 7- 9 | 7-10 | 8- 0 | 8- 2 | 8- 3 | 8- 5 | 8- 7 |
| 375.00 | 8- 4 | 8- 6 | 8- 8 | 8-10 | 9- 0 | 9- 2 | 9- 4 | 9- 6 | 9- 8 | 9-10 |
| 400.00 | 9- 6 | 9- 9 | 9-11 | 10- 1 | 10- 3 | 10- 6 | 10- 8 | 10-10 | 11- 0 | 11- 2 |
| 425.00 | 10- 9 | 11- 0 | 11- 2 | 11- 5 | 11- 7 | 11-10 | 12- 0 | 12- 3 | 12- 5 | 12- 7 |
| 450.00 | 12- 1 | 12- 3 | 12- 6 | 12- 9 | 13- 0 | 13- 3 | 13- 6 | 13- 8 | 13-11 | 14- 2 |
| 475.00 | 13- 5 | 13- 8 | 14- 0 | 14- 3 | 14- 6 | 14- 9 | 15- 0 | 15- 3 | 15- 6 | 15- 9 |
| 500.00 | 14-10 | 15- 2 | 15- 6 | 15- 9 | 16- 1 | 16- 4 | 16- 8 | 16-11 | 17- 2 | 17- 6 |
| 525.00 | 16- 5 | 16- 9 | 17- 1 | 17- 5 | 17- 9 | 18- 0 | 18- 4 | 18- 8 | 18-11 | 19- 3 |
| 550.00 | 18- 0 | 18- 4 | 18- 9 | 19- 1 | 19- 5 | 19- 9 | 20- 2 | 20- 6 | 20-10 | 21- 2 |
| 575.00 | 19- 8 | 20- 1 | 20- 6 | 20-10 | 21- 3 | 21- 8 | 22- 0 | 22- 5 | 22- 9 | 23- 1 |
| 600.00 | 21- 5 | 21-10 | 22- 4 | 22- 9 | 23- 2 | 23- 7 | 24- 0 | 24- 4 | 24- 9 | 25- 2 |
| 625.00 | 23- 3 | 23- 9 | 24- 2 | 24- 8 | 25- 1 | 25- 7 | 26- 0 | 26- 5 | 26-11 | 27- 4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-10 | 3-10 | 3-11 | 4- 0 | 4- 1 | 4- 2 | 4- 3 | 4- 4 | 4- 5 | 4- 5 |
| 275.00 | 4- 7 | 4- 8 | 4- 9 | 4-10 | 5- 0 | 5- 1 | 5- 2 | 5- 3 | 5- 4 | 5- 5 |
| 300.00 | 5- 6 | 5- 7 | 5- 8 | 5-10 | 5-11 | 6- 0 | 6- 1 | 6- 3 | 6- 4 | 6- 5 |
| 325.00 | 6- 5 | 6- 7 | 6- 8 | 6-10 | 6-11 | 7- 1 | 7- 2 | 7- 4 | 7- 5 | 7- 6 |
| 350.00 | 7- 5 | 7- 7 | 7- 9 | 7-11 | 8- 0 | 8- 2 | 8- 4 | 8- 6 | 8- 7 | 8- 9 |
| 375.00 | 8- 7 | 8- 9 | 8-11 | 9- 1 | 9- 3 | 9- 5 | 9- 7 | 9- 9 | 9-10 | 10- 0 |
| 400.00 | 9- 9 | 9-11 | 10- 1 | 10- 4 | 10- 6 | 10- 8 | 10-10 | 11- 1 | 11- 3 | 11- 5 |
| 425.00 | 11- 0 | 11- 2 | 11- 5 | 11- 8 | 11-10 | 12- 1 | 12- 3 | 12- 6 | 12- 8 | 12-11 |
| 450.00 | 12- 4 | 12- 7 | 12-10 | 13- 1 | 13- 4 | 13- 6 | 13- 9 | 14- 0 | 14- 3 | 14- 5 |
| 475.00 | 13- 9 | 14- 0 | 14- 3 | 14- 7 | 14-10 | 15- 1 | 15- 4 | 15- 7 | 15-10 | 16- 1 |
| 500.00 | 15- 2 | 15- 6 | 15-10 | 16- 1 | 16- 5 | 16- 9 | 17- 0 | 17- 3 | 17- 7 | 17-10 |
| 525.00 | 16- 9 | 17- 1 | 17- 5 | 17- 9 | 18- 1 | 18- 5 | 18- 9 | 19- 1 | 19- 4 | 19- 8 |
| 550.00 | 18- 5 | 18- 9 | 19- 2 | 19- 6 | 19-10 | 20- 3 | 20- 7 | 20-11 | 21- 3 | 21- 7 |
| 575.00 | 20- 1 | 20- 6 | 20-11 | 21- 4 | 21- 9 | 22- 1 | 22- 6 | 22-10 | 23- 3 | 23- 7 |
| 600.00 | 21-11 | 22- 4 | 22- 9 | 23- 3 | 23- 8 | 24- 1 | 24- 6 | 24-11 | 25- 4 | 25- 8 |
| 625.00 | 23- 9 | 24- 3 | 24- 9 | 25- 2 | 25- 8 | 26- 2 | 26- 7 | 27- 0 | 27- 6 | 27-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 0.49 | 1889 | 0.46 | 2000* |
| 25 | 0 | 0 | 0 | 0.52 | 0.37 | 1780 | 0.34 | 1916 |
| 30 | 0 | 0 | 0 | 0.52 | 0.41 | 1602 | 0.37 | 1766 |
| 40 | 0 | 0 | 0 | 0.52 | 0.51 | 1279 | 0.44 | 1476 |
| 50 | 0 | 0 | 0 | 0.52 | 0.64 | 1016 | 0.54 | 1212 |
| 60 | 0 | 0 | 0 | 0.52 | 0.79 | 821 | 0.66 | 990 |
| 70 | 0 | 0 | 0 | 0.52 | 0.95 | 685 | 0.8 | 817 |
| 80 | 0 | 0 | 0 | 0.52 | 1.1 | 591 | 0.94 | 690 |
| 90 | 0 | 0 | 0 | 0.52 | 1.19 | 545 | 1.09 | 599 |
| 100 | 0 | 0 | 0 | 0.52 | 1.27 | 513 | 1.22 | 531 |
| 110 | 0 | 0 | 0 | 0.52 | 1.35 | 483 | 1.35 | 483 |
| 120 | 0 | 0 | 0 | 0.52 | 1.42 | 458 | 1.42 | 458 |
| 130 | 0 | 0 | 0 | 0.52 | 1.49 | 435 | 1.49 | 435 |
| 167 | 0 | 0 | 0 | 0.52 | 1.75 | 372 | 1.75 | 372 |
| 212 | 0 | 0 | 0 | 0.52 | 2.04 | 320 | 2.04 | 320 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 1.99 | 1853 | 1.84 | 2000* |
| 25 | 0 | 0 | 0 | 0.52 | 1.68 | 1553 | 1.49 | 1745 |
| 30 | 0 | 0 | 0 | 0.52 | 1.79 | 1450 | 1.59 | 1640 |
| 40 | 0 | 0 | 0 | 0.52 | 2.04 | 1275 | 1.79 | 1451 |
| 50 | 0 | 0 | 0 | 0.52 | 2.29 | 1136 | 2.01 | 1292 |
| 60 | 0 | 0 | 0 | 0.52 | 2.54 | 1026 | 2.24 | 1160 |
| 70 | 0 | 0 | 0 | 0.52 | 2.78 | 937 | 2.47 | 1053 |
| 80 | 0 | 0 | 0 | 0.52 | 3.01 | 865 | 2.7 | 964 |
| 90 | 0 | 0 | 0 | 0.52 | 3.23 | 806 | 2.92 | 891 |
| 100 | 0 | 0 | 0 | 0.52 | 3.41 | 763 | 3.14 | 830 |
| 110 | 0 | 0 | 0 | 0.52 | 3.53 | 738 | 3.34 | 778 |
| 120 | 0 | 0 | 0 | 0.52 | 3.64 | 715 | 3.54 | 734 |
| 130 | 0 | 0 | 0 | 0.52 | 3.76 | 693 | 3.74 | 696 |
| 167 | 0 | 0 | 0 | 0.52 | 4.17 | 624 | 4.17 | 624 |
| 212 | 0 | 0 | 0 | 0.52 | 4.65 | 560 | 4.65 | 560 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 4.42 | 1876 | 4.15 | 2000* |
| 25 | 0 | 0 | 0 | 0.52 | 4 | 1463 | 3.63 | 1612 |
| 30 | 0 | 0 | 0 | 0.52 | 4.16 | 1406 | 3.78 | 1549 |
| 40 | 0 | 0 | 0 | 0.52 | 4.48 | 1306 | 4.08 | 1436 |
| 50 | 0 | 0 | 0 | 0.52 | 4.8 | 1221 | 4.38 | 1338 |
| 60 | 0 | 0 | 0 | 0.52 | 5.1 | 1148 | 4.67 | 1254 |
| 70 | 0 | 0 | 0 | 0.52 | 5.39 | 1086 | 4.96 | 1181 |
| 80 | 0 | 0 | 0 | 0.52 | 5.68 | 1031 | 5.24 | 1117 |
| 90 | 0 | 0 | 0 | 0.52 | 5.96 | 984 | 5.52 | 1062 |
| 100 | 0 | 0 | 0 | 0.52 | 6.23 | 941 | 5.79 | 1012 |
| 110 | 0 | 0 | 0 | 0.52 | 6.45 | 908 | 6.05 | 969 |
| 120 | 0 | 0 | 0 | 0.52 | 6.6 | 888 | 6.3 | 930 |
| 130 | 0 | 0 | 0 | 0.52 | 6.75 | 868 | 6.55 | 894 |
| 167 | 0 | 0 | 0 | 0.52 | 7.29 | 805 | 7.28 | 805 |
| 212 | 0 | 0 | 0 | 0.52 | 7.91 | 742 | 7.9 | 742 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 7.75 | 1904 | 7.38 | 2000* |
| 25 | 0 | 0 | 0 | 0.52 | 7.27 | 1432 | 6.78 | 1536 |
| 30 | 0 | 0 | 0 | 0.52 | 7.45 | 1397 | 6.95 | 1498 |
| 40 | 0 | 0 | 0 | 0.52 | 7.81 | 1333 | 7.3 | 1427 |
| 50 | 0 | 0 | 0 | 0.52 | 8.16 | 1276 | 7.64 | 1364 |
| 60 | 0 | 0 | 0 | 0.52 | 8.5 | 1225 | 7.97 | 1307 |
| 70 | 0 | 0 | 0 | 0.52 | 8.83 | 1179 | 8.3 | 1255 |
| 80 | 0 | 0 | 0 | 0.52 | 9.16 | 1138 | 8.62 | 1209 |
| 90 | 0 | 0 | 0 | 0.52 | 9.47 | 1100 | 8.93 | 1166 |
| 100 | 0 | 0 | 0 | 0.52 | 9.78 | 1066 | 9.24 | 1128 |
| 110 | 0 | 0 | 0 | 0.52 | 10.08 | 1034 | 9.54 | 1092 |
| 120 | 0 | 0 | 0 | 0.52 | 10.32 | 1010 | 9.84 | 1060 |
| 130 | 0 | 0 | 0 | 0.52 | 10.5 | 993 | 10.13 | 1030 |
| 167 | 0 | 0 | 0 | 0.52 | 11.13 | 937 | 11.12 | 938 |
| 212 | 0 | 0 | 0 | 0.52 | 11.87 | 879 | 11.86 | 880 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 11.98 | 1926 | 11.54 | 2000* |
| 25 | 0 | 0 | 0 | 0.52 | 11.46 | 1421 | 10.89 | 1495 |
| 30 | 0 | 0 | 0 | 0.52 | 11.66 | 1397 | 11.08 | 1470 |
| 40 | 0 | 0 | 0 | 0.52 | 12.04 | 1353 | 11.45 | 1422 |
| 50 | 0 | 0 | 0 | 0.52 | 12.41 | 1312 | 11.82 | 1378 |
| 60 | 0 | 0 | 0 | 0.52 | 12.78 | 1275 | 12.18 | 1338 |
| 70 | 0 | 0 | 0 | 0.52 | 13.14 | 1241 | 12.53 | 1300 |
| 80 | 0 | 0 | 0 | 0.52 | 13.49 | 1208 | 12.87 | 1266 |
| 90 | 0 | 0 | 0 | 0.52 | 13.83 | 1179 | 13.22 | 1233 |
| 100 | 0 | 0 | 0 | 0.52 | 14.17 | 1151 | 13.55 | 1203 |
| 110 | 0 | 0 | 0 | 0.52 | 14.5 | 1125 | 13.88 | 1174 |
| 120 | 0 | 0 | 0 | 0.52 | 14.82 | 1100 | 14.2 | 1148 |
| 130 | 0 | 0 | 0 | 0.52 | 15.04 | 1084 | 14.52 | 1123 |
| 167 | 0 | 0 | 0 | 0.52 | 15.75 | 1036 | 15.66 | 1042 |
| 212 | 0 | 0 | 0 | 0.52 | 16.59 | 984 | 16.58 | 985 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-11 | 2-1 |
| 150.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-9 | 2-1 | 2-5 | 2-9 | 3-0 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-8 | 2-0 | 2-5 | 2-11 | 3-4 | 3-9 | 4-2 |
| 200.00 | 1-3 | 1-6 | 1-9 | 2-2 | 2-8 | 3-2 | 3-9 | 4-4 | 4-11 | 5-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 |
| 125.00 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 1-10 | 2-0 | 2-1 |
| 150.00 | 0-9 | 0-11 | 1-2 | 1-5 | 1-9 | 2-2 | 2-6 | 2-8 | 2-10 | 3-0 |
| 175.00 | 1-0 | 1-3 | 1-7 | 2-0 | 2-5 | 2-11 | 3-4 | 3-8 | 3-11 | 4-2 |
| 200.00 | 1-4 | 1-7 | 2-0 | 2-7 | 3-2 | 3-10 | 4-5 | 4-9 | 5-1 | 5-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 175.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 200.00 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 |
| 225.00 | 1-9 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 |
| 250.00 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-10 | 4-3 | 4-7 | 4-11 | 5-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-2 | 1-4 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-7 | 2-8 |
| 200.00 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-6 |
| 225.00 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-6 |
| 250.00 | 2-5 | 2-10 | 3-2 | 3-7 | 4-0 | 4-4 | 4-8 | 5-1 | 5-4 | 5-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 |
| 175.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 |
| 200.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 |
| 225.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 |
| 250.00 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 |
| 275.00 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 |
| 300.00 | 3-6 | 3-9 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 | 5-6 | 5-9 | 6-1 |
| 325.00 | 4-1 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-1 |
| 350.00 | 4-9 | 5-2 | 5-7 | 5-11 | 6-4 | 6-9 | 7-2 | 7-6 | 7-11 | 8-3 |
| 375.00 | 5-5 | 5-11 | 6-4 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 | 9-1 | 9-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 |
| 225.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 250.00 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 |
| 275.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 |
| 300.00 | 3-10 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-3 | 6-5 |
| 325.00 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 |
| 350.00 | 5-3 | 5-8 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-1 | 8-6 | 8-9 |
| 375.00 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-5 | 8-11 | 9-4 | 9-9 | 10-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS



OH811.24

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 225.00 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 250.00 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 |
| 275.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 |
| 300.00 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 |
| 325.00 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 |
| 350.00 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 375.00 | 5-10 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-7 | 7-10 | 8-1 | 8-5 |
| 400.00 | 6-7 | 6-11 | 7-4 | 7-8 | 8-0 | 8-4 | 8-7 | 8-11 | 9-3 | 9-7 |
| 425.00 | 7-5 | 7-10 | 8-3 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 | 10-5 | 10-9 |
| 450.00 | 8-4 | 8-10 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 | 11-4 | 11-8 | 12-1 |
| 475.00 | 9-4 | 9-10 | 10-4 | 10-9 | 11-3 | 11-8 | 12-2 | 12-7 | 13-0 | 13-6 |
| 500.00 | 10-4 | 10-10 | 11-5 | 11-11 | 12-6 | 13-0 | 13-6 | 14-0 | 14-5 | 14-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 225.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 250.00 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 |
| 275.00 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 |
| 300.00 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 |
| 325.00 | 4-8 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-1 | 6-3 | 6-5 | 6-8 |
| 350.00 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 |
| 375.00 | 6-3 | 6-7 | 6-10 | 7-2 | 7-6 | 7-9 | 8-1 | 8-4 | 8-7 | 8-10 |
| 400.00 | 7-1 | 7-5 | 7-10 | 8-2 | 8-6 | 8-10 | 9-2 | 9-6 | 9-9 | 10-1 |
| 425.00 | 8-0 | 8-5 | 8-10 | 9-3 | 9-7 | 10-0 | 10-4 | 10-8 | 11-1 | 11-5 |
| 450.00 | 9-0 | 9-5 | 9-11 | 10-4 | 10-9 | 11-2 | 11-7 | 12-0 | 12-5 | 12-9 |
| 475.00 | 10-0 | 10-6 | 11-0 | 11-6 | 12-0 | 12-6 | 12-11 | 13-4 | 13-10 | 14-3 |
| 500.00 | 11-1 | 11-8 | 12-3 | 12-9 | 13-3 | 13-10 | 14-4 | 14-10 | 15-4 | 15-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 275.00 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 |
| 300.00 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 |
| 325.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 |
| 350.00 | 5-3 | 5-5 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 |
| 375.00 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-10 |
| 400.00 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 | 8-5 | 8-8 | 8-11 |
| 425.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 | 10-0 |
| 450.00 | 8-8 | 9-0 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-8 | 11-0 | 11-3 |
| 475.00 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 | 11-7 | 11-11 | 12-3 | 12-6 |
| 500.00 | 10-8 | 11-1 | 11-5 | 11-10 | 12-2 | 12-6 | 12-10 | 13-3 | 13-7 | 13-11 |
| 525.00 | 11-10 | 12-3 | 12-8 | 13-0 | 13-5 | 13-10 | 14-2 | 14-7 | 14-11 | 15-4 |
| 550.00 | 12-11 | 13-5 | 13-10 | 14-4 | 14-9 | 15-2 | 15-7 | 16-0 | 16-5 | 16-10 |
| 575.00 | 14-2 | 14-8 | 15-2 | 15-8 | 16-1 | 16-7 | 17-0 | 17-6 | 17-11 | 18-4 |
| 600.00 | 15-5 | 16-0 | 16-6 | 17-0 | 17-6 | 18-1 | 18-7 | 19-0 | 19-6 | 20-0 |
| 625.00 | 16-9 | 17-4 | 17-11 | 18-6 | 19-0 | 19-7 | 20-2 | 20-8 | 21-2 | 21-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 275.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 |
| 300.00 | 4-1 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 |
| 325.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-1 |
| 350.00 | 5-6 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 |
| 375.00 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 | 8-0 | 8-2 |
| 400.00 | 7-3 | 7-6 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 |
| 425.00 | 8-2 | 8-5 | 8-8 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 |
| 450.00 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-2 | 11-6 | 11-9 |
| 475.00 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 | 12-6 | 12-9 | 13-1 |
| 500.00 | 11-3 | 11-8 | 12-0 | 12-5 | 12-9 | 13-2 | 13-6 | 13-10 | 14-2 | 14-6 |
| 525.00 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-10 | 15-3 | 15-7 | 16-0 |
| 550.00 | 13-8 | 14-1 | 14-7 | 15-0 | 15-6 | 15-11 | 16-4 | 16-9 | 17-2 | 17-7 |
| 575.00 | 14-11 | 15-5 | 15-11 | 16-5 | 16-11 | 17-5 | 17-10 | 18-4 | 18-9 | 19-2 |
| 600.00 | 16-3 | 16-9 | 17-4 | 17-11 | 18-5 | 18-11 | 19-5 | 19-11 | 20-5 | 20-11 |
| 625.00 | 17-7 | 18-3 | 18-10 | 19-5 | 20-0 | 20-6 | 21-1 | 21-7 | 22-2 | 22-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 0.4 | 2312 | 0.37 | 2500* |
| 25 | 0 | 0 | 0 | 0.52 | 0.29 | 2234 | 0.27 | 2445 |
| 30 | 0 | 0 | 0 | 0.52 | 0.32 | 2041 | 0.28 | 2290 |
| 40 | 0 | 0 | 0 | 0.52 | 0.39 | 1672 | 0.33 | 1981 |
| 50 | 0 | 0 | 0 | 0.52 | 0.49 | 1339 | 0.39 | 1680 |
| 60 | 0 | 0 | 0 | 0.52 | 0.61 | 1062 | 0.47 | 1394 |
| 70 | 0 | 0 | 0 | 0.52 | 0.76 | 855 | 0.57 | 1140 |
| 80 | 0 | 0 | 0 | 0.52 | 0.92 | 709 | 0.7 | 932 |
| 90 | 0 | 0 | 0 | 0.52 | 1.01 | 643 | 0.84 | 774 |
| 100 | 0 | 0 | 0 | 0.52 | 1.09 | 599 | 0.99 | 659 |
| 110 | 0 | 0 | 0 | 0.52 | 1.16 | 560 | 1.13 | 575 |
| 120 | 0 | 0 | 0 | 0.52 | 1.24 | 526 | 1.24 | 526 |
| 130 | 0 | 0 | 0 | 0.52 | 1.31 | 495 | 1.31 | 495 |
| 167 | 0 | 0 | 0 | 0.52 | 1.58 | 411 | 1.58 | 411 |
| 212 | 0 | 0 | 0 | 0.52 | 1.89 | 345 | 1.89 | 345 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 1.63 | 2261 | 1.47 | 2500* |
| 25 | 0 | 0 | 0 | 0.52 | 1.3 | 2006 | 1.13 | 2309 |
| 30 | 0 | 0 | 0 | 0.52 | 1.39 | 1864 | 1.19 | 2178 |
| 40 | 0 | 0 | 0 | 0.52 | 1.61 | 1613 | 1.35 | 1929 |
| 50 | 0 | 0 | 0 | 0.52 | 1.85 | 1407 | 1.53 | 1703 |
| 60 | 0 | 0 | 0 | 0.52 | 2.1 | 1241 | 1.73 | 1504 |
| 70 | 0 | 0 | 0 | 0.52 | 2.35 | 1109 | 1.95 | 1335 |
| 80 | 0 | 0 | 0 | 0.52 | 2.59 | 1004 | 2.18 | 1196 |
| 90 | 0 | 0 | 0 | 0.52 | 2.83 | 920 | 2.41 | 1081 |
| 100 | 0 | 0 | 0 | 0.52 | 3.02 | 861 | 2.64 | 987 |
| 110 | 0 | 0 | 0 | 0.52 | 3.14 | 829 | 2.86 | 910 |
| 120 | 0 | 0 | 0 | 0.52 | 3.26 | 798 | 3.08 | 845 |
| 130 | 0 | 0 | 0 | 0.52 | 3.38 | 770 | 3.29 | 791 |
| 167 | 0 | 0 | 0 | 0.52 | 3.81 | 683 | 3.8 | 684 |
| 212 | 0 | 0 | 0 | 0.52 | 4.31 | 605 | 4.3 | 605 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 3.64 | 2278 | 3.32 | 2500* |
| 25 | 0 | 0 | 0 | 0.52 | 3.12 | 1873 | 2.71 | 2156 |
| 30 | 0 | 0 | 0 | 0.52 | 3.28 | 1782 | 2.84 | 2059 |
| 40 | 0 | 0 | 0 | 0.52 | 3.61 | 1621 | 3.11 | 1879 |
| 50 | 0 | 0 | 0 | 0.52 | 3.94 | 1487 | 3.4 | 1721 |
| 60 | 0 | 0 | 0 | 0.52 | 4.26 | 1374 | 3.7 | 1584 |
| 70 | 0 | 0 | 0 | 0.52 | 4.58 | 1279 | 3.99 | 1465 |
| 80 | 0 | 0 | 0 | 0.52 | 4.89 | 1198 | 4.29 | 1363 |
| 90 | 0 | 0 | 0 | 0.52 | 5.19 | 1128 | 4.59 | 1275 |
| 100 | 0 | 0 | 0 | 0.52 | 5.48 | 1068 | 4.88 | 1199 |
| 110 | 0 | 0 | 0 | 0.52 | 5.74 | 1021 | 5.17 | 1133 |
| 120 | 0 | 0 | 0 | 0.52 | 5.89 | 994 | 5.45 | 1075 |
| 130 | 0 | 0 | 0 | 0.52 | 6.05 | 969 | 5.72 | 1024 |
| 167 | 0 | 0 | 0 | 0.52 | 6.61 | 887 | 6.59 | 889 |
| 212 | 0 | 0 | 0 | 0.52 | 7.26 | 807 | 7.25 | 809 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 6.37 | 2314 | 5.9 | 2500* |
| 25 | 0 | 0 | 0 | 0.52 | 5.74 | 1813 | 5.11 | 2037 |
| 30 | 0 | 0 | 0 | 0.52 | 5.94 | 1753 | 5.29 | 1969 |
| 40 | 0 | 0 | 0 | 0.52 | 6.33 | 1645 | 5.64 | 1845 |
| 50 | 0 | 0 | 0 | 0.52 | 6.71 | 1551 | 6 | 1734 |
| 60 | 0 | 0 | 0 | 0.52 | 7.09 | 1469 | 6.36 | 1637 |
| 70 | 0 | 0 | 0 | 0.52 | 7.46 | 1396 | 6.72 | 1550 |
| 80 | 0 | 0 | 0 | 0.52 | 7.82 | 1332 | 7.07 | 1473 |
| 90 | 0 | 0 | 0 | 0.52 | 8.17 | 1276 | 7.42 | 1404 |
| 100 | 0 | 0 | 0 | 0.52 | 8.51 | 1225 | 7.76 | 1343 |
| 110 | 0 | 0 | 0 | 0.52 | 8.84 | 1179 | 8.09 | 1288 |
| 120 | 0 | 0 | 0 | 0.52 | 9.13 | 1141 | 8.42 | 1238 |
| 130 | 0 | 0 | 0 | 0.52 | 9.31 | 1119 | 8.74 | 1193 |
| 167 | 0 | 0 | 0 | 0.52 | 9.98 | 1044 | 9.86 | 1057 |
| 212 | 0 | 0 | 0 | 0.52 | 10.77 | 969 | 10.74 | 971 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 9.82 | 2348 | 9.22 | 2500* |
| 25 | 0 | 0 | 0 | 0.52 | 9.11 | 1786 | 8.31 | 1957 |
| 30 | 0 | 0 | 0 | 0.52 | 9.33 | 1744 | 8.52 | 1909 |
| 40 | 0 | 0 | 0 | 0.52 | 9.76 | 1667 | 8.93 | 1822 |
| 50 | 0 | 0 | 0 | 0.52 | 10.18 | 1598 | 9.34 | 1743 |
| 60 | 0 | 0 | 0 | 0.52 | 10.6 | 1536 | 9.74 | 1671 |
| 70 | 0 | 0 | 0 | 0.52 | 11 | 1480 | 10.14 | 1606 |
| 80 | 0 | 0 | 0 | 0.52 | 11.4 | 1429 | 10.53 | 1546 |
| 90 | 0 | 0 | 0 | 0.52 | 11.79 | 1382 | 10.91 | 1492 |
| 100 | 0 | 0 | 0 | 0.52 | 12.16 | 1339 | 11.29 | 1442 |
| 110 | 0 | 0 | 0 | 0.52 | 12.53 | 1300 | 11.66 | 1397 |
| 120 | 0 | 0 | 0 | 0.52 | 12.9 | 1263 | 12.03 | 1354 |
| 130 | 0 | 0 | 0 | 0.52 | 13.19 | 1235 | 12.38 | 1315 |
| 167 | 0 | 0 | 0 | 0.52 | 13.95 | 1168 | 13.65 | 1194 |
| 212 | 0 | 0 | 0 | 0.52 | 14.85 | 1098 | 14.82 | 1101 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-9 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-1 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-7 | 3-0 | 3-6 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-3 | 2-9 | 3-4 | 3-11 | 4-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-7 | 1-8 | 1-10 |
| 150.00 | 0-7 | 0-9 | 0-10 | 1-1 | 1-5 | 1-9 | 2-1 | 2-3 | 2-5 | 2-7 |
| 175.00 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-4 | 2-10 | 3-1 | 3-4 | 3-7 |
| 200.00 | 1-1 | 1-3 | 1-7 | 1-11 | 2-5 | 3-1 | 3-8 | 4-1 | 4-4 | 4-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 |
| 200.00 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 2-10 |
| 225.00 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-6 | 2-9 | 3-1 | 3-4 | 3-7 |
| 250.00 | 1-8 | 1-10 | 2-1 | 2-5 | 2-8 | 3-1 | 3-5 | 3-9 | 4-1 | 4-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 175.00 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-5 |
| 200.00 | 1-2 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-0 | 3-2 |
| 225.00 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-0 |
| 250.00 | 1-11 | 2-2 | 2-6 | 2-11 | 3-3 | 3-8 | 4-1 | 4-5 | 4-9 | 4-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.31

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 |
| 225.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 250.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 |
| 275.00 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 |
| 300.00 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-4 | 4-7 | 4-11 | 5-2 |
| 325.00 | 3-0 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 |
| 350.00 | 3-6 | 3-10 | 4-3 | 4-8 | 5-0 | 5-5 | 5-10 | 6-3 | 6-8 | 7-0 |
| 375.00 | 4-1 | 4-5 | 4-10 | 5-4 | 5-9 | 6-3 | 6-9 | 7-2 | 7-8 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 |
| 225.00 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 250.00 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 |
| 275.00 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 |
| 300.00 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 | 5-2 | 5-6 | 5-9 |
| 325.00 | 3-6 | 3-10 | 4-3 | 4-7 | 5-0 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 |
| 350.00 | 4-0 | 4-6 | 4-11 | 5-4 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 | 7-10 |
| 375.00 | 4-8 | 5-2 | 5-8 | 6-2 | 6-8 | 7-2 | 7-8 | 8-1 | 8-7 | 9-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 225.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 |
| 250.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 |
| 275.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 300.00 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-7 |
| 325.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 |
| 350.00 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 | 5-8 | 5-11 | 6-2 |
| 375.00 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-10 | 7-1 |
| 400.00 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-9 | 7-1 | 7-5 | 7-9 | 8-1 |
| 425.00 | 5-7 | 6-0 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-4 | 8-9 | 9-2 |
| 450.00 | 6-3 | 6-8 | 7-2 | 7-7 | 8-1 | 8-6 | 8-11 | 9-5 | 9-10 | 10-3 |
| 475.00 | 7-0 | 7-5 | 7-11 | 8-6 | 9-0 | 9-6 | 10-0 | 10-6 | 10-11 | 11-5 |
| 500.00 | 7-9 | 8-3 | 8-10 | 9-5 | 9-11 | 10-6 | 11-1 | 11-7 | 12-1 | 12-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 |
| 225.00 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 |
| 250.00 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 |
| 275.00 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 300.00 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 5-0 |
| 325.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 |
| 350.00 | 4-3 | 4-7 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 |
| 375.00 | 4-10 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 | 7-6 | 7-9 |
| 400.00 | 5-7 | 5-11 | 6-4 | 6-9 | 7-1 | 7-5 | 7-10 | 8-2 | 8-6 | 8-10 |
| 425.00 | 6-3 | 6-8 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-7 | 10-0 |
| 450.00 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-5 | 9-11 | 10-4 | 10-9 | 11-2 |
| 475.00 | 7-10 | 8-4 | 8-11 | 9-6 | 10-0 | 10-6 | 11-0 | 11-6 | 12-0 | 12-6 |
| 500.00 | 8-8 | 9-3 | 9-11 | 10-6 | 11-1 | 11-8 | 12-3 | 12-9 | 13-4 | 13-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 |
| 275.00 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 |
| 300.00 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 |
| 325.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 350.00 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 | 5-6 | 5-9 |
| 375.00 | 4-7 | 4-10 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 | 6-4 | 6-7 |
| 400.00 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 |
| 425.00 | 5-10 | 6-2 | 6-5 | 6-9 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 | 8-5 |
| 450.00 | 6-7 | 6-11 | 7-3 | 7-7 | 7-11 | 8-3 | 8-6 | 8-10 | 9-2 | 9-5 |
| 475.00 | 7-4 | 7-8 | 8-1 | 8-5 | 8-9 | 9-2 | 9-6 | 9-10 | 10-2 | 10-6 |
| 500.00 | 8-1 | 8-6 | 8-11 | 9-4 | 9-9 | 10-2 | 10-6 | 10-11 | 11-3 | 11-8 |
| 525.00 | 8-11 | 9-5 | 9-10 | 10-4 | 10-9 | 11-2 | 11-7 | 12-0 | 12-5 | 12-10 |
| 550.00 | 9-10 | 10-4 | 10-10 | 11-4 | 11-9 | 12-3 | 12-9 | 13-2 | 13-8 | 14-1 |
| 575.00 | 10-9 | 11-3 | 11-10 | 12-4 | 12-11 | 13-5 | 13-11 | 14-5 | 14-11 | 15-5 |
| 600.00 | 11-8 | 12-3 | 12-10 | 13-5 | 14-0 | 14-7 | 15-2 | 15-9 | 16-3 | 16-10 |
| 625.00 | 12-8 | 13-4 | 14-0 | 14-7 | 15-3 | 15-10 | 16-5 | 17-1 | 17-8 | 18-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 |
| 275.00 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 |
| 300.00 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 | 4-6 |
| 325.00 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 |
| 350.00 | 4-4 | 4-7 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 | 5-11 | 6-2 |
| 375.00 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-8 | 6-10 | 7-1 |
| 400.00 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-4 | 7-6 | 7-9 | 8-0 |
| 425.00 | 6-5 | 6-9 | 7-1 | 7-4 | 7-8 | 7-11 | 8-3 | 8-6 | 8-9 | 9-1 |
| 450.00 | 7-2 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 | 9-10 | 10-2 |
| 475.00 | 8-0 | 8-5 | 8-10 | 9-2 | 9-7 | 9-11 | 10-3 | 10-8 | 11-0 | 11-4 |
| 500.00 | 8-11 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 | 11-5 | 11-9 | 12-2 | 12-6 |
| 525.00 | 9-10 | 10-3 | 10-9 | 11-3 | 11-8 | 12-2 | 12-7 | 13-0 | 13-5 | 13-10 |
| 550.00 | 10-9 | 11-3 | 11-10 | 12-4 | 12-10 | 13-4 | 13-10 | 14-3 | 14-9 | 15-2 |
| 575.00 | 11-9 | 12-4 | 12-11 | 13-6 | 14-0 | 14-7 | 15-1 | 15-7 | 16-1 | 16-7 |
| 600.00 | 12-10 | 13-5 | 14-1 | 14-8 | 15-3 | 15-10 | 16-5 | 17-0 | 17-6 | 18-1 |
| 625.00 | 13-11 | 14-7 | 15-3 | 15-11 | 16-7 | 17-2 | 17-10 | 18-5 | 19-0 | 19-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 0.34 | 2695 | 0.31 | 3000* |
| 25 | 0 | 0 | 0 | 0.52 | 0.25 | 2636 | 0.22 | 2962 |
| 30 | 0 | 0 | 0 | 0.52 | 0.27 | 2437 | 0.23 | 2808 |
| 40 | 0 | 0 | 0 | 0.52 | 0.32 | 2046 | 0.26 | 2497 |
| 50 | 0 | 0 | 0 | 0.52 | 0.39 | 1677 | 0.3 | 2185 |
| 60 | 0 | 0 | 0 | 0.52 | 0.48 | 1343 | 0.35 | 1876 |
| 70 | 0 | 0 | 0 | 0.52 | 0.61 | 1066 | 0.41 | 1577 |
| 80 | 0 | 0 | 0 | 0.52 | 0.76 | 857 | 0.5 | 1300 |
| 90 | 0 | 0 | 0 | 0.52 | 0.85 | 766 | 0.61 | 1060 |
| 100 | 0 | 0 | 0 | 0.52 | 0.92 | 709 | 0.75 | 869 |
| 110 | 0 | 0 | 0 | 0.52 | 0.99 | 657 | 0.89 | 727 |
| 120 | 0 | 0 | 0 | 0.52 | 1.06 | 612 | 1.04 | 625 |
| 130 | 0 | 0 | 0 | 0.52 | 1.14 | 572 | 1.13 | 574 |
| 167 | 0 | 0 | 0 | 0.52 | 1.41 | 460 | 1.41 | 461 |
| 212 | 0 | 0 | 0 | 0.52 | 1.73 | 376 | 1.73 | 376 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 1.39 | 2657 | 1.23 | 3000* |
| 25 | 0 | 0 | 0 | 0.52 | 1.06 | 2449 | 0.91 | 2859 |
| 30 | 0 | 0 | 0 | 0.52 | 1.14 | 2282 | 0.96 | 2718 |
| 40 | 0 | 0 | 0 | 0.52 | 1.32 | 1975 | 1.07 | 2440 |
| 50 | 0 | 0 | 0 | 0.52 | 1.52 | 1707 | 1.2 | 2173 |
| 60 | 0 | 0 | 0 | 0.52 | 1.75 | 1483 | 1.35 | 1923 |
| 70 | 0 | 0 | 0 | 0.52 | 2 | 1301 | 1.53 | 1697 |
| 80 | 0 | 0 | 0 | 0.52 | 2.25 | 1157 | 1.74 | 1498 |
| 90 | 0 | 0 | 0 | 0.52 | 2.5 | 1042 | 1.96 | 1330 |
| 100 | 0 | 0 | 0 | 0.52 | 2.69 | 966 | 2.18 | 1191 |
| 110 | 0 | 0 | 0 | 0.52 | 2.81 | 926 | 2.42 | 1076 |
| 120 | 0 | 0 | 0 | 0.52 | 2.93 | 888 | 2.65 | 983 |
| 130 | 0 | 0 | 0 | 0.52 | 3.05 | 853 | 2.87 | 906 |
| 167 | 0 | 0 | 0 | 0.52 | 3.49 | 746 | 3.48 | 749 |
| 212 | 0 | 0 | 0 | 0.52 | 4.01 | 650 | 3.99 | 652 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 3.11 | 2669 | 2.76 | 3000* |
| 25 | 0 | 0 | 0 | 0.52 | 2.54 | 2300 | 2.15 | 2722 |
| 30 | 0 | 0 | 0 | 0.52 | 2.69 | 2177 | 2.25 | 2602 |
| 40 | 0 | 0 | 0 | 0.52 | 2.99 | 1956 | 2.47 | 2373 |
| 50 | 0 | 0 | 0 | 0.52 | 3.31 | 1768 | 2.71 | 2161 |
| 60 | 0 | 0 | 0 | 0.52 | 3.64 | 1609 | 2.97 | 1969 |
| 70 | 0 | 0 | 0 | 0.52 | 3.96 | 1477 | 3.25 | 1800 |
| 80 | 0 | 0 | 0 | 0.52 | 4.29 | 1365 | 3.55 | 1651 |
| 90 | 0 | 0 | 0 | 0.52 | 4.61 | 1271 | 3.84 | 1523 |
| 100 | 0 | 0 | 0 | 0.52 | 4.91 | 1192 | 4.15 | 1412 |
| 110 | 0 | 0 | 0 | 0.52 | 5.19 | 1129 | 4.45 | 1317 |
| 120 | 0 | 0 | 0 | 0.52 | 5.35 | 1096 | 4.74 | 1235 |
| 130 | 0 | 0 | 0 | 0.52 | 5.5 | 1064 | 5.03 | 1164 |
| 167 | 0 | 0 | 0 | 0.52 | 6.08 | 964 | 6.04 | 970 |
| 212 | 0 | 0 | 0 | 0.52 | 6.75 | 868 | 6.73 | 872 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 5.45 | 2706 | 4.91 | 3000* |
| 25 | 0 | 0 | 0 | 0.52 | 4.71 | 2212 | 4.02 | 2586 |
| 30 | 0 | 0 | 0 | 0.52 | 4.9 | 2123 | 4.18 | 2491 |
| 40 | 0 | 0 | 0 | 0.52 | 5.3 | 1965 | 4.5 | 2312 |
| 50 | 0 | 0 | 0 | 0.52 | 5.69 | 1828 | 4.84 | 2150 |
| 60 | 0 | 0 | 0 | 0.52 | 6.09 | 1710 | 5.19 | 2005 |
| 70 | 0 | 0 | 0 | 0.52 | 6.48 | 1608 | 5.55 | 1876 |
| 80 | 0 | 0 | 0 | 0.52 | 6.86 | 1518 | 5.91 | 1762 |
| 90 | 0 | 0 | 0 | 0.52 | 7.23 | 1440 | 6.27 | 1660 |
| 100 | 0 | 0 | 0 | 0.52 | 7.59 | 1371 | 6.63 | 1570 |
| 110 | 0 | 0 | 0 | 0.52 | 7.95 | 1310 | 6.98 | 1491 |
| 120 | 0 | 0 | 0 | 0.52 | 8.27 | 1259 | 7.33 | 1420 |
| 130 | 0 | 0 | 0 | 0.52 | 8.46 | 1231 | 7.68 | 1357 |
| 167 | 0 | 0 | 0 | 0.52 | 9.15 | 1139 | 8.89 | 1172 |
| 212 | 0 | 0 | 0 | 0.52 | 9.97 | 1046 | 9.92 | 1051 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.737 | 8.39 | 2747 | 7.68 | 3000* |
| 25 | 0 | 0 | 0 | 0.52 | 7.51 | 2165 | 6.57 | 2473 |
| 30 | 0 | 0 | 0 | 0.52 | 7.74 | 2101 | 6.77 | 2401 |
| 40 | 0 | 0 | 0 | 0.52 | 8.2 | 1984 | 7.18 | 2265 |
| 50 | 0 | 0 | 0 | 0.52 | 8.65 | 1880 | 7.59 | 2142 |
| 60 | 0 | 0 | 0 | 0.52 | 9.1 | 1789 | 8.01 | 2032 |
| 70 | 0 | 0 | 0 | 0.52 | 9.53 | 1707 | 8.42 | 1932 |
| 80 | 0 | 0 | 0 | 0.52 | 9.96 | 1634 | 8.84 | 1841 |
| 90 | 0 | 0 | 0 | 0.52 | 10.38 | 1568 | 9.25 | 1760 |
| 100 | 0 | 0 | 0 | 0.52 | 10.79 | 1509 | 9.65 | 1686 |
| 110 | 0 | 0 | 0 | 0.52 | 11.19 | 1455 | 10.05 | 1619 |
| 120 | 0 | 0 | 0 | 0.52 | 11.58 | 1406 | 10.45 | 1558 |
| 130 | 0 | 0 | 0 | 0.52 | 11.93 | 1366 | 10.84 | 1503 |
| 167 | 0 | 0 | 0 | 0.52 | 12.72 | 1281 | 12.21 | 1334 |
| 212 | 0 | 0 | 0 | 0.52 | 13.66 | 1194 | 13.6 | 1199 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 1-0 | 1-2 | 1-5 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 2-0 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-11 | 2-4 | 2-9 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-5 | 1-8 | 2-0 | 2-5 | 3-0 | 3-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-4 | 1-5 | 1-7 |
| 150.00 | 0-6 | 0-7 | 0-9 | 0-10 | 1-1 | 1-4 | 1-8 | 1-11 | 2-1 | 2-3 |
| 175.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-4 | 2-7 | 2-10 | 3-0 |
| 200.00 | 0-11 | 1-1 | 1-3 | 1-7 | 1-11 | 2-5 | 3-0 | 3-5 | 3-8 | 4-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-5 |
| 225.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-6 | 2-9 | 3-1 |
| 250.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-5 | 2-9 | 3-1 | 3-5 | 3-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-1 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-7 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-2 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-8 | 2-10 |
| 225.00 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-6 | 2-10 | 3-2 | 3-5 | 3-7 |
| 250.00 | 1-7 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-6 | 3-11 | 4-2 | 4-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 |
| 225.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 250.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-1 |
| 275.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 |
| 300.00 | 2-1 | 2-3 | 2-6 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-5 |
| 325.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 |
| 350.00 | 2-10 | 3-1 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 | 6-1 |
| 375.00 | 3-3 | 3-6 | 3-10 | 4-3 | 4-8 | 5-1 | 5-6 | 6-0 | 6-6 | 6-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 |
| 225.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 250.00 | 1-8 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 |
| 275.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-4 |
| 300.00 | 2-5 | 2-8 | 3-0 | 3-4 | 3-8 | 4-0 | 4-3 | 4-7 | 4-11 | 5-2 |
| 325.00 | 2-10 | 3-2 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 |
| 350.00 | 3-3 | 3-8 | 4-1 | 4-6 | 4-11 | 5-5 | 5-10 | 6-3 | 6-8 | 7-1 |
| 375.00 | 3-9 | 4-2 | 4-8 | 5-2 | 5-8 | 6-2 | 6-8 | 7-2 | 7-8 | 8-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS



OH811.40

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-0 | 1-1 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 225.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 250.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 275.00 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 |
| 300.00 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 |
| 325.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-7 |
| 350.00 | 3-0 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-10 | 5-1 | 5-4 |
| 375.00 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 4-11 | 5-2 | 5-6 | 5-10 | 6-2 |
| 400.00 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 5-11 | 6-3 | 6-8 | 7-0 |
| 425.00 | 4-4 | 4-9 | 5-1 | 5-6 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 |
| 450.00 | 4-11 | 5-3 | 5-8 | 6-2 | 6-7 | 7-0 | 7-6 | 7-11 | 8-5 | 8-10 |
| 475.00 | 5-6 | 5-11 | 6-4 | 6-10 | 7-4 | 7-10 | 8-4 | 8-10 | 9-4 | 9-10 |
| 500.00 | 6-1 | 6-6 | 7-0 | 7-7 | 8-1 | 8-8 | 9-3 | 9-10 | 10-4 | 10-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 225.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 |
| 250.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 |
| 275.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 |
| 300.00 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 |
| 325.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 |
| 350.00 | 3-5 | 3-9 | 4-1 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 | 5-10 | 6-1 |
| 375.00 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 |
| 400.00 | 4-6 | 4-11 | 5-4 | 5-8 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 |
| 425.00 | 5-1 | 5-6 | 6-0 | 6-5 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 |
| 450.00 | 5-9 | 6-2 | 6-8 | 7-2 | 7-8 | 8-2 | 8-8 | 9-2 | 9-7 | 10-1 |
| 475.00 | 6-4 | 6-11 | 7-6 | 8-0 | 8-7 | 9-2 | 9-8 | 10-2 | 10-9 | 11-3 |
| 500.00 | 7-1 | 7-8 | 8-3 | 8-11 | 9-6 | 10-1 | 10-9 | 11-4 | 11-10 | 12-5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 275.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 |
| 300.00 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 |
| 325.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 |
| 350.00 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 |
| 375.00 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 |
| 400.00 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 |
| 425.00 | 4-7 | 4-11 | 5-2 | 5-6 | 5-9 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 |
| 450.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 |
| 475.00 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 | 8-0 | 8-4 | 8-9 | 9-1 |
| 500.00 | 6-5 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-8 | 10-1 |
| 525.00 | 7-0 | 7-6 | 7-11 | 8-4 | 8-10 | 9-3 | 9-9 | 10-2 | 10-8 | 11-1 |
| 550.00 | 7-9 | 8-2 | 8-8 | 9-2 | 9-8 | 10-2 | 10-8 | 11-2 | 11-8 | 12-2 |
| 575.00 | 8-5 | 9-0 | 9-6 | 10-0 | 10-7 | 11-2 | 11-8 | 12-3 | 12-9 | 13-4 |
| 600.00 | 9-2 | 9-9 | 10-4 | 10-11 | 11-6 | 12-2 | 12-9 | 13-4 | 13-11 | 14-6 |
| 625.00 | 10-0 | 10-7 | 11-3 | 11-10 | 12-6 | 13-2 | 13-10 | 14-5 | 15-1 | 15-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 |
| 275.00 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 |
| 300.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-0 |
| 325.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 |
| 350.00 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 4-11 | 5-1 | 5-3 | 5-6 |
| 375.00 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 |
| 400.00 | 4-8 | 4-11 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-8 | 6-11 | 7-2 |
| 425.00 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 | 7-10 | 8-1 |
| 450.00 | 5-11 | 6-3 | 6-8 | 7-0 | 7-4 | 7-9 | 8-1 | 8-5 | 8-9 | 9-1 |
| 475.00 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 |
| 500.00 | 7-3 | 7-9 | 8-2 | 8-8 | 9-1 | 9-6 | 10-0 | 10-5 | 10-9 | 11-2 |
| 525.00 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-6 | 11-0 | 11-5 | 11-11 | 12-4 |
| 550.00 | 8-10 | 9-4 | 9-11 | 10-6 | 11-0 | 11-6 | 12-1 | 12-7 | 13-1 | 13-7 |
| 575.00 | 9-8 | 10-3 | 10-10 | 11-5 | 12-0 | 12-7 | 13-2 | 13-9 | 14-3 | 14-10 |
| 600.00 | 10-6 | 11-2 | 11-10 | 12-6 | 13-1 | 13-9 | 14-4 | 14-11 | 15-7 | 16-1 |
| 625.00 | 11-5 | 12-1 | 12-10 | 13-6 | 14-3 | 14-11 | 15-7 | 16-3 | 16-10 | 17-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 1.99 | 1000 | 1.99 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 1.81 | 359 | 1.77 | 368 |
| 30 | 0 | 0 | 0 | 0.52 | 2.12 | 306 | 2.09 | 311 |
| 40 | 0 | 0 | 0 | 0.52 | 2.21 | 294 | 2.18 | 298 |
| 50 | 0 | 0 | 0 | 0.52 | 2.3 | 283 | 2.27 | 287 |
| 60 | 0 | 0 | 0 | 0.52 | 2.39 | 273 | 2.35 | 277 |
| 70 | 0 | 0 | 0 | 0.52 | 2.46 | 265 | 2.43 | 268 |
| 80 | 0 | 0 | 0 | 0.52 | 2.51 | 260 | 2.51 | 260 |
| 90 | 0 | 0 | 0 | 0.52 | 2.56 | 255 | 2.56 | 255 |
| 100 | 0 | 0 | 0 | 0.52 | 2.61 | 250 | 2.61 | 250 |
| 110 | 0 | 0 | 0 | 0.52 | 2.66 | 245 | 2.66 | 245 |
| 120 | 0 | 0 | 0 | 0.52 | 2.71 | 241 | 2.71 | 241 |
| 130 | 0 | 0 | 0 | 0.52 | 2.76 | 237 | 2.75 | 237 |
| 167 | 0 | 0 | 0 | 0.52 | 2.93 | 223 | 2.93 | 223 |
| 212 | 0 | 0 | 0 | 0.52 | 3.12 | 209 | 3.12 | 209 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 8.01 | 1000 | 8.01 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 7.83 | 334 | 7.78 | 336 |
| 30 | 0 | 0 | 0 | 0.52 | 8.15 | 321 | 8.11 | 323 |
| 40 | 0 | 0 | 0 | 0.52 | 8.24 | 318 | 8.21 | 319 |
| 50 | 0 | 0 | 0 | 0.52 | 8.34 | 314 | 8.3 | 315 |
| 60 | 0 | 0 | 0 | 0.52 | 8.44 | 310 | 8.4 | 312 |
| 70 | 0 | 0 | 0 | 0.52 | 8.53 | 307 | 8.49 | 309 |
| 80 | 0 | 0 | 0 | 0.52 | 8.6 | 305 | 8.58 | 305 |
| 90 | 0 | 0 | 0 | 0.52 | 8.66 | 302 | 8.66 | 303 |
| 100 | 0 | 0 | 0 | 0.52 | 8.72 | 300 | 8.72 | 300 |
| 110 | 0 | 0 | 0 | 0.52 | 8.78 | 298 | 8.78 | 298 |
| 120 | 0 | 0 | 0 | 0.52 | 8.84 | 296 | 8.84 | 296 |
| 130 | 0 | 0 | 0 | 0.52 | 8.9 | 294 | 8.9 | 294 |
| 167 | 0 | 0 | 0 | 0.52 | 9.12 | 287 | 9.12 | 287 |
| 212 | 0 | 0 | 0 | 0.52 | 9.38 | 280 | 9.38 | 280 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 18.16 | 1000 | 18.16 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 17.98 | 330 | 17.93 | 331 |
| 30 | 0 | 0 | 0 | 0.52 | 18.3 | 324 | 18.27 | 325 |
| 40 | 0 | 0 | 0 | 0.52 | 18.4 | 323 | 18.37 | 323 |
| 50 | 0 | 0 | 0 | 0.52 | 18.5 | 321 | 18.46 | 322 |
| 60 | 0 | 0 | 0 | 0.52 | 18.6 | 319 | 18.56 | 320 |
| 70 | 0 | 0 | 0 | 0.52 | 18.7 | 318 | 18.65 | 318 |
| 80 | 0 | 0 | 0 | 0.52 | 18.77 | 317 | 18.75 | 317 |
| 90 | 0 | 0 | 0 | 0.52 | 18.84 | 315 | 18.84 | 315 |
| 100 | 0 | 0 | 0 | 0.52 | 18.9 | 314 | 18.9 | 314 |
| 110 | 0 | 0 | 0 | 0.52 | 18.97 | 313 | 18.97 | 313 |
| 120 | 0 | 0 | 0 | 0.52 | 19.03 | 312 | 19.03 | 312 |
| 130 | 0 | 0 | 0 | 0.52 | 19.1 | 311 | 19.09 | 311 |
| 167 | 0 | 0 | 0 | 0.52 | 19.33 | 308 | 19.33 | 308 |
| 212 | 0 | 0 | 0 | 0.52 | 19.61 | 303 | 19.61 | 303 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 32.67 | 1000 | 32.67 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 32.49 | 329 | 32.44 | 329 |
| 30 | 0 | 0 | 0 | 0.52 | 32.81 | 326 | 32.78 | 326 |
| 40 | 0 | 0 | 0 | 0.52 | 32.91 | 325 | 32.88 | 325 |
| 50 | 0 | 0 | 0 | 0.52 | 33.01 | 324 | 32.97 | 324 |
| 60 | 0 | 0 | 0 | 0.52 | 33.11 | 323 | 33.07 | 323 |
| 70 | 0 | 0 | 0 | 0.52 | 33.21 | 322 | 33.17 | 322 |
| 80 | 0 | 0 | 0 | 0.52 | 33.29 | 321 | 33.26 | 321 |
| 90 | 0 | 0 | 0 | 0.52 | 33.35 | 320 | 33.35 | 321 |
| 100 | 0 | 0 | 0 | 0.52 | 33.42 | 320 | 33.42 | 320 |
| 110 | 0 | 0 | 0 | 0.52 | 33.49 | 319 | 33.49 | 319 |
| 120 | 0 | 0 | 0 | 0.52 | 33.55 | 319 | 33.55 | 319 |
| 130 | 0 | 0 | 0 | 0.52 | 33.62 | 318 | 33.62 | 318 |
| 167 | 0 | 0 | 0 | 0.52 | 33.86 | 316 | 33.86 | 316 |
| 212 | 0 | 0 | 0 | 0.52 | 34.15 | 313 | 34.15 | 313 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 51.87 | 1000 | 51.87 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 51.69 | 328 | 51.63 | 328 |
| 30 | 0 | 0 | 0 | 0.52 | 52.01 | 326 | 51.97 | 326 |
| 40 | 0 | 0 | 0 | 0.52 | 52.11 | 325 | 52.07 | 326 |
| 50 | 0 | 0 | 0 | 0.52 | 52.21 | 325 | 52.17 | 325 |
| 60 | 0 | 0 | 0 | 0.52 | 52.31 | 324 | 52.27 | 325 |
| 70 | 0 | 0 | 0 | 0.52 | 52.41 | 324 | 52.36 | 324 |
| 80 | 0 | 0 | 0 | 0.52 | 52.49 | 323 | 52.46 | 323 |
| 90 | 0 | 0 | 0 | 0.52 | 52.55 | 323 | 52.55 | 323 |
| 100 | 0 | 0 | 0 | 0.52 | 52.62 | 323 | 52.62 | 323 |
| 110 | 0 | 0 | 0 | 0.52 | 52.69 | 322 | 52.68 | 322 |
| 120 | 0 | 0 | 0 | 0.52 | 52.75 | 322 | 52.75 | 322 |
| 130 | 0 | 0 | 0 | 0.52 | 52.82 | 321 | 52.82 | 321 |
| 167 | 0 | 0 | 0 | 0.52 | 53.06 | 320 | 53.06 | 320 |
| 212 | 0 | 0 | 0 | 0.52 | 53.36 | 318 | 53.36 | 318 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 100.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 |
| 125.00 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 150.00 | 4-6 | 4-9 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 |
| 175.00 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 |
| 200.00 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-3 | 10-6 | 10-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 |
| 100.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 |
| 125.00 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 150.00 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 |
| 175.00 | 6-3 | 6-6 | 6-10 | 7-1 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |
| 200.00 | 8-2 | 8-6 | 8-11 | 9-3 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 | 10-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.46

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 |
| 125.00 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 |
| 150.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 |
| 175.00 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 |
| 200.00 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 |
| 225.00 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 | 11-0 | 11-1 | 11-1 |
| 250.00 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 | 13-8 | 13-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-2 |
| 125.00 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 |
| 150.00 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 |
| 175.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 |
| 200.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 |
| 225.00 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 |
| 250.00 | 12-7 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS



OH811.47

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-6 | 4-7 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-8 | 4-9 |
| 175.00 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 |
| 200.00 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 |
| 225.00 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 |
| 250.00 | 12-7 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 |
| 275.00 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-10 | 15-11 |
| 300.00 | 18-2 | 18-3 | 18-4 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 |
| 325.00 | 21-4 | 21-5 | 21-7 | 21-8 | 21-10 | 21-11 | 22-0 | 22-2 | 22-2 | 22-3 |
| 350.00 | 24-9 | 24-11 | 25-1 | 25-2 | 25-4 | 25-5 | 25-7 | 25-8 | 25-9 | 25-10 |
| 375.00 | 28-6 | 28-7 | 28-9 | 28-11 | 29-1 | 29-3 | 29-5 | 29-6 | 29-7 | 29-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-8 | 4-8 | 4-9 |
| 175.00 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 |
| 200.00 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 |
| 225.00 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 |
| 250.00 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 |
| 275.00 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-10 | 15-11 |
| 300.00 | 18-2 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 |
| 325.00 | 21-5 | 21-6 | 21-7 | 21-9 | 21-10 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 |
| 350.00 | 24-10 | 24-11 | 25-1 | 25-3 | 25-4 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 |
| 375.00 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-4 | 29-5 | 29-6 | 29-7 | 29-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 |
| 225.00 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 |
| 250.00 | 12-8 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 |
| 275.00 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 |
| 300.00 | 18-4 | 18-4 | 18-5 | 18-6 | 18-6 | 18-7 | 18-8 | 18-8 | 18-9 | 18-9 |
| 325.00 | 21-6 | 21-7 | 21-8 | 21-8 | 21-9 | 21-10 | 21-11 | 21-11 | 22-0 | 22-0 |
| 350.00 | 25-0 | 25-1 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-6 | 25-7 |
| 375.00 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 |
| 400.00 | 32-8 | 32-9 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 | 33-5 | 33-6 |
| 425.00 | 36-11 | 37-1 | 37-2 | 37-3 | 37-5 | 37-6 | 37-7 | 37-8 | 37-9 | 37-10 |
| 450.00 | 41-5 | 41-7 | 41-8 | 41-10 | 41-11 | 42-1 | 42-2 | 42-4 | 42-5 | 42-6 |
| 475.00 | 46-3 | 46-5 | 46-6 | 46-8 | 46-10 | 46-11 | 47-1 | 47-3 | 47-4 | 47-5 |
| 500.00 | 51-4 | 51-6 | 51-7 | 51-9 | 51-11 | 52-1 | 52-3 | 52-5 | 52-6 | 52-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 |
| 225.00 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 |
| 250.00 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 |
| 275.00 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 |
| 300.00 | 18-4 | 18-5 | 18-5 | 18-6 | 18-7 | 18-7 | 18-8 | 18-8 | 18-9 | 18-9 |
| 325.00 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 22-0 | 22-0 |
| 350.00 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-4 | 25-5 | 25-6 | 25-6 | 25-7 |
| 375.00 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 | 29-5 |
| 400.00 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 | 33-3 | 33-3 | 33-4 | 33-5 | 33-6 |
| 425.00 | 37-0 | 37-1 | 37-2 | 37-4 | 37-5 | 37-6 | 37-7 | 37-8 | 37-9 | 37-10 |
| 450.00 | 41-6 | 41-7 | 41-9 | 41-11 | 42-0 | 42-2 | 42-3 | 42-4 | 42-5 | 42-6 |
| 475.00 | 46-4 | 46-5 | 46-7 | 46-9 | 46-10 | 47-0 | 47-1 | 47-3 | 47-4 | 47-5 |
| 500.00 | 51-4 | 51-6 | 51-8 | 51-10 | 52-0 | 52-2 | 52-3 | 52-5 | 52-6 | 52-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS



OH811.49

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-0 |
| 275.00 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-8 | 15-9 | 15-9 | 15-9 | 15-9 |
| 300.00 | 18-6 | 18-7 | 18-7 | 18-7 | 18-8 | 18-8 | 18-9 | 18-9 | 18-9 | 18-10 |
| 325.00 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 22-0 | 22-0 | 22-1 | 22-1 |
| 350.00 | 25-3 | 25-3 | 25-4 | 25-5 | 25-5 | 25-6 | 25-6 | 25-7 | 25-7 | 25-8 |
| 375.00 | 29-0 | 29-1 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 | 29-5 | 29-5 | 29-5 |
| 400.00 | 33-0 | 33-1 | 33-2 | 33-3 | 33-3 | 33-4 | 33-5 | 33-6 | 33-6 | 33-7 |
| 425.00 | 37-4 | 37-5 | 37-6 | 37-7 | 37-7 | 37-8 | 37-9 | 37-10 | 37-10 | 37-11 |
| 450.00 | 41-11 | 42-0 | 42-1 | 42-2 | 42-3 | 42-4 | 42-5 | 42-5 | 42-6 | 42-7 |
| 475.00 | 46-9 | 46-10 | 46-11 | 47-0 | 47-1 | 47-2 | 47-3 | 47-4 | 47-5 | 47-6 |
| 500.00 | 51-11 | 52-0 | 52-1 | 52-2 | 52-3 | 52-4 | 52-6 | 52-7 | 52-7 | 52-8 |
| 525.00 | 57-3 | 57-5 | 57-6 | 57-7 | 57-8 | 57-10 | 57-11 | 58-0 | 58-1 | 58-2 |
| 550.00 | 62-11 | 63-1 | 63-2 | 63-4 | 63-5 | 63-7 | 63-8 | 63-9 | 63-10 | 63-11 |
| 575.00 | 68-11 | 69-1 | 69-2 | 69-4 | 69-5 | 69-7 | 69-8 | 69-10 | 69-11 | 70-0 |
| 600.00 | 75-2 | 75-4 | 75-5 | 75-7 | 75-9 | 75-10 | 76-0 | 76-2 | 76-3 | 76-4 |
| 625.00 | 81-8 | 81-10 | 82-0 | 82-2 | 82-4 | 82-6 | 82-8 | 82-9 | 82-11 | 83-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-0 | 13-0 |
| 275.00 | 15-7 | 15-7 | 15-7 | 15-8 | 15-8 | 15-8 | 15-9 | 15-9 | 15-9 | 15-9 |
| 300.00 | 18-6 | 18-7 | 18-7 | 18-8 | 18-8 | 18-8 | 18-9 | 18-9 | 18-9 | 18-10 |
| 325.00 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 |
| 350.00 | 25-3 | 25-4 | 25-4 | 25-5 | 25-5 | 25-6 | 25-6 | 25-7 | 25-7 | 25-8 |
| 375.00 | 29-0 | 29-1 | 29-2 | 29-2 | 29-3 | 29-4 | 29-4 | 29-5 | 29-5 | 29-5 |
| 400.00 | 33-1 | 33-1 | 33-2 | 33-3 | 33-4 | 33-4 | 33-5 | 33-6 | 33-6 | 33-7 |
| 425.00 | 37-4 | 37-5 | 37-6 | 37-7 | 37-8 | 37-9 | 37-9 | 37-10 | 37-10 | 37-11 |
| 450.00 | 41-11 | 42-0 | 42-1 | 42-2 | 42-3 | 42-4 | 42-5 | 42-5 | 42-6 | 42-7 |
| 475.00 | 46-9 | 46-10 | 47-0 | 47-1 | 47-2 | 47-3 | 47-4 | 47-4 | 47-5 | 47-6 |
| 500.00 | 51-11 | 52-0 | 52-1 | 52-2 | 52-4 | 52-5 | 52-6 | 52-7 | 52-7 | 52-8 |
| 525.00 | 57-4 | 57-5 | 57-6 | 57-8 | 57-9 | 57-10 | 57-11 | 58-0 | 58-1 | 58-2 |
| 550.00 | 63-0 | 63-1 | 63-3 | 63-4 | 63-6 | 63-7 | 63-8 | 63-9 | 63-10 | 63-11 |
| 575.00 | 68-11 | 69-1 | 69-3 | 69-4 | 69-6 | 69-8 | 69-9 | 69-10 | 69-11 | 70-0 |
| 600.00 | 75-2 | 75-4 | 75-6 | 75-8 | 75-10 | 75-11 | 76-1 | 76-2 | 76-3 | 76-4 |
| 625.00 | 81-9 | 81-11 | 82-1 | 82-3 | 82-5 | 82-7 | 82-8 | 82-9 | 82-11 | 83-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 1.33 | 1500 | 1.33 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 0.98 | 664 | 0.93 | 700 |
| 30 | 0 | 0 | 0 | 0.52 | 1.41 | 463 | 1.34 | 485 |
| 40 | 0 | 0 | 0 | 0.52 | 1.53 | 425 | 1.46 | 444 |
| 50 | 0 | 0 | 0 | 0.52 | 1.65 | 395 | 1.58 | 411 |
| 60 | 0 | 0 | 0 | 0.52 | 1.76 | 370 | 1.69 | 385 |
| 70 | 0 | 0 | 0 | 0.52 | 1.86 | 349 | 1.8 | 362 |
| 80 | 0 | 0 | 0 | 0.52 | 1.93 | 338 | 1.9 | 343 |
| 90 | 0 | 0 | 0 | 0.52 | 1.99 | 327 | 1.99 | 327 |
| 100 | 0 | 0 | 0 | 0.52 | 2.05 | 317 | 2.05 | 317 |
| 110 | 0 | 0 | 0 | 0.52 | 2.11 | 308 | 2.11 | 308 |
| 120 | 0 | 0 | 0 | 0.52 | 2.17 | 300 | 2.17 | 300 |
| 130 | 0 | 0 | 0 | 0.52 | 2.23 | 293 | 2.23 | 293 |
| 167 | 0 | 0 | 0 | 0.52 | 2.43 | 268 | 2.43 | 268 |
| 212 | 0 | 0 | 0 | 0.52 | 2.66 | 245 | 2.66 | 245 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 5.32 | 1500 | 5.32 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 4.95 | 526 | 4.89 | 533 |
| 30 | 0 | 0 | 0 | 0.52 | 5.41 | 482 | 5.33 | 489 |
| 40 | 0 | 0 | 0 | 0.52 | 5.55 | 470 | 5.47 | 476 |
| 50 | 0 | 0 | 0 | 0.52 | 5.69 | 458 | 5.61 | 465 |
| 60 | 0 | 0 | 0 | 0.52 | 5.83 | 448 | 5.75 | 454 |
| 70 | 0 | 0 | 0 | 0.52 | 5.96 | 438 | 5.88 | 444 |
| 80 | 0 | 0 | 0 | 0.52 | 6.09 | 429 | 6.01 | 434 |
| 90 | 0 | 0 | 0 | 0.52 | 6.17 | 423 | 6.13 | 426 |
| 100 | 0 | 0 | 0 | 0.52 | 6.26 | 417 | 6.26 | 417 |
| 110 | 0 | 0 | 0 | 0.52 | 6.34 | 412 | 6.34 | 412 |
| 120 | 0 | 0 | 0 | 0.52 | 6.42 | 407 | 6.42 | 407 |
| 130 | 0 | 0 | 0 | 0.52 | 6.5 | 402 | 6.5 | 402 |
| 167 | 0 | 0 | 0 | 0.52 | 6.79 | 385 | 6.79 | 385 |
| 212 | 0 | 0 | 0 | 0.52 | 7.12 | 367 | 7.12 | 367 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 12.01 | 1500 | 12.01 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 11.64 | 505 | 11.57 | 509 |
| 30 | 0 | 0 | 0 | 0.52 | 12.1 | 487 | 12.02 | 490 |
| 40 | 0 | 0 | 0 | 0.52 | 12.25 | 481 | 12.17 | 484 |
| 50 | 0 | 0 | 0 | 0.52 | 12.39 | 475 | 12.31 | 478 |
| 60 | 0 | 0 | 0 | 0.52 | 12.54 | 470 | 12.45 | 473 |
| 70 | 0 | 0 | 0 | 0.52 | 12.68 | 465 | 12.59 | 468 |
| 80 | 0 | 0 | 0 | 0.52 | 12.82 | 460 | 12.73 | 463 |
| 90 | 0 | 0 | 0 | 0.52 | 12.93 | 456 | 12.87 | 458 |
| 100 | 0 | 0 | 0 | 0.52 | 13.02 | 453 | 13 | 453 |
| 110 | 0 | 0 | 0 | 0.52 | 13.11 | 450 | 13.11 | 450 |
| 120 | 0 | 0 | 0 | 0.52 | 13.2 | 447 | 13.2 | 447 |
| 130 | 0 | 0 | 0 | 0.52 | 13.29 | 444 | 13.29 | 444 |
| 167 | 0 | 0 | 0 | 0.52 | 13.62 | 433 | 13.62 | 433 |
| 212 | 0 | 0 | 0 | 0.52 | 14.01 | 421 | 14.01 | 421 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 21.46 | 1500 | 21.46 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 21.09 | 499 | 21.02 | 500 |
| 30 | 0 | 0 | 0 | 0.52 | 21.55 | 488 | 21.47 | 490 |
| 40 | 0 | 0 | 0 | 0.52 | 21.7 | 485 | 21.62 | 487 |
| 50 | 0 | 0 | 0 | 0.52 | 21.85 | 482 | 21.76 | 484 |
| 60 | 0 | 0 | 0 | 0.52 | 21.99 | 479 | 21.91 | 480 |
| 70 | 0 | 0 | 0 | 0.52 | 22.14 | 475 | 22.05 | 477 |
| 80 | 0 | 0 | 0 | 0.52 | 22.29 | 472 | 22.19 | 474 |
| 90 | 0 | 0 | 0 | 0.52 | 22.41 | 470 | 22.33 | 471 |
| 100 | 0 | 0 | 0 | 0.52 | 22.5 | 468 | 22.47 | 469 |
| 110 | 0 | 0 | 0 | 0.52 | 22.6 | 466 | 22.6 | 466 |
| 120 | 0 | 0 | 0 | 0.52 | 22.69 | 464 | 22.69 | 464 |
| 130 | 0 | 0 | 0 | 0.52 | 22.79 | 462 | 22.78 | 462 |
| 167 | 0 | 0 | 0 | 0.52 | 23.13 | 456 | 23.13 | 456 |
| 212 | 0 | 0 | 0 | 0.52 | 23.55 | 448 | 23.55 | 448 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 33.75 | 1500 | 33.75 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 33.39 | 495 | 33.31 | 497 |
| 30 | 0 | 0 | 0 | 0.52 | 33.84 | 489 | 33.77 | 490 |
| 40 | 0 | 0 | 0 | 0.52 | 33.99 | 487 | 33.91 | 488 |
| 50 | 0 | 0 | 0 | 0.52 | 34.14 | 485 | 34.06 | 486 |
| 60 | 0 | 0 | 0 | 0.52 | 34.29 | 483 | 34.2 | 484 |
| 70 | 0 | 0 | 0 | 0.52 | 34.44 | 481 | 34.35 | 482 |
| 80 | 0 | 0 | 0 | 0.52 | 34.59 | 479 | 34.49 | 480 |
| 90 | 0 | 0 | 0 | 0.52 | 34.71 | 477 | 34.64 | 478 |
| 100 | 0 | 0 | 0 | 0.52 | 34.81 | 476 | 34.78 | 476 |
| 110 | 0 | 0 | 0 | 0.52 | 34.91 | 475 | 34.91 | 475 |
| 120 | 0 | 0 | 0 | 0.52 | 35 | 473 | 35 | 473 |
| 130 | 0 | 0 | 0 | 0.52 | 35.1 | 472 | 35.1 | 472 |
| 167 | 0 | 0 | 0 | 0.52 | 35.46 | 468 | 35.46 | 468 |
| 212 | 0 | 0 | 0 | 0.52 | 35.89 | 462 | 35.89 | 462 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 125.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 |
| 150.00 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-7 | 4-9 |
| 175.00 | 3-8 | 4-1 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-1 | 6-3 | 6-6 |
| 200.00 | 4-10 | 5-4 | 5-10 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-3 | 8-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 125.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 |
| 150.00 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 |
| 175.00 | 3-11 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 5-11 | 6-1 | 6-3 | 6-6 |
| 200.00 | 5-1 | 5-8 | 6-2 | 6-7 | 7-1 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS



OH811.54

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 |
| 125.00 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 |
| 150.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 |
| 175.00 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 200.00 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 |
| 225.00 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-0 |
| 250.00 | 8-1 | 8-4 | 8-7 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-9 | 9-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 |
| 150.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 |
| 175.00 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 |
| 200.00 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 225.00 | 6-8 | 6-10 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 | 7-10 | 7-11 | 8-0 |
| 250.00 | 8-3 | 8-5 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-9 | 9-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS



OH811.55

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 |
| 175.00 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 |
| 200.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 |
| 225.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 |
| 250.00 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 |
| 275.00 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 |
| 300.00 | 11-11 | 12-0 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-1 |
| 325.00 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 |
| 350.00 | 16-2 | 16-5 | 16-7 | 16-9 | 17-0 | 17-2 | 17-4 | 17-6 | 17-9 | 17-10 |
| 375.00 | 18-7 | 18-10 | 19-0 | 19-3 | 19-6 | 19-8 | 19-11 | 20-2 | 20-4 | 20-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 |
| 175.00 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 |
| 200.00 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 |
| 225.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 |
| 250.00 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 |
| 275.00 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 |
| 300.00 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 | 12-10 | 12-11 | 13-0 | 13-1 |
| 325.00 | 14-0 | 14-2 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-2 | 15-3 | 15-5 |
| 350.00 | 16-3 | 16-6 | 16-8 | 16-11 | 17-1 | 17-3 | 17-6 | 17-7 | 17-9 | 17-10 |
| 375.00 | 18-8 | 18-11 | 19-2 | 19-5 | 19-7 | 19-10 | 20-1 | 20-3 | 20-4 | 20-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 |
| 225.00 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 |
| 250.00 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 |
| 275.00 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 |
| 300.00 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 |
| 325.00 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-8 | 14-9 | 14-10 | 14-11 |
| 350.00 | 16-4 | 16-5 | 16-6 | 16-8 | 16-9 | 16-10 | 17-0 | 17-1 | 17-2 | 17-3 |
| 375.00 | 18-9 | 18-10 | 19-0 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 |
| 400.00 | 21-4 | 21-6 | 21-7 | 21-9 | 21-11 | 22-1 | 22-2 | 22-4 | 22-6 | 22-7 |
| 425.00 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-5 | 25-6 |
| 450.00 | 27-0 | 27-2 | 27-5 | 27-7 | 27-9 | 27-11 | 28-1 | 28-4 | 28-6 | 28-8 |
| 475.00 | 30-1 | 30-4 | 30-6 | 30-9 | 30-11 | 31-2 | 31-4 | 31-7 | 31-9 | 31-11 |
| 500.00 | 33-5 | 33-7 | 33-10 | 34-1 | 34-4 | 34-6 | 34-9 | 35-0 | 35-2 | 35-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-8 |
| 225.00 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 |
| 250.00 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 |
| 275.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 |
| 300.00 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-8 |
| 325.00 | 14-1 | 14-2 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 |
| 350.00 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-1 | 17-2 | 17-3 | 17-3 |
| 375.00 | 18-10 | 18-11 | 19-1 | 19-2 | 19-4 | 19-5 | 19-7 | 19-8 | 19-9 | 19-10 |
| 400.00 | 21-5 | 21-7 | 21-8 | 21-10 | 22-0 | 22-2 | 22-3 | 22-5 | 22-6 | 22-7 |
| 425.00 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-5 | 25-6 |
| 450.00 | 27-1 | 27-4 | 27-6 | 27-8 | 27-10 | 28-1 | 28-3 | 28-5 | 28-6 | 28-8 |
| 475.00 | 30-3 | 30-5 | 30-8 | 30-10 | 31-1 | 31-3 | 31-6 | 31-8 | 31-9 | 31-11 |
| 500.00 | 33-6 | 33-9 | 34-0 | 34-3 | 34-5 | 34-8 | 34-11 | 35-1 | 35-3 | 35-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 |
| 275.00 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 |
| 300.00 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 |
| 325.00 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-8 | 14-8 |
| 350.00 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 |
| 375.00 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 |
| 400.00 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 |
| 425.00 | 24-3 | 24-4 | 24-6 | 24-7 | 24-8 | 24-9 | 24-11 | 25-0 | 25-1 | 25-2 |
| 450.00 | 27-2 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 | 27-11 | 28-0 | 28-2 | 28-3 |
| 475.00 | 30-4 | 30-5 | 30-7 | 30-9 | 30-10 | 31-0 | 31-1 | 31-3 | 31-4 | 31-6 |
| 500.00 | 33-7 | 33-9 | 33-11 | 34-1 | 34-2 | 34-4 | 34-6 | 34-8 | 34-9 | 34-11 |
| 525.00 | 37-1 | 37-3 | 37-5 | 37-7 | 37-9 | 37-11 | 38-1 | 38-3 | 38-4 | 38-6 |
| 550.00 | 40-9 | 40-11 | 41-1 | 41-3 | 41-5 | 41-7 | 41-9 | 42-0 | 42-2 | 42-4 |
| 575.00 | 44-7 | 44-9 | 44-11 | 45-2 | 45-4 | 45-6 | 45-8 | 45-11 | 46-1 | 46-3 |
| 600.00 | 48-6 | 48-9 | 49-0 | 49-2 | 49-5 | 49-7 | 49-10 | 50-0 | 50-3 | 50-5 |
| 625.00 | 52-8 | 52-11 | 53-2 | 53-5 | 53-8 | 53-10 | 54-1 | 54-4 | 54-6 | 54-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 |
| 275.00 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 |
| 300.00 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 |
| 325.00 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 | 14-7 | 14-7 | 14-8 | 14-8 |
| 350.00 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 16-11 | 17-0 | 17-1 |
| 375.00 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-6 | 19-7 |
| 400.00 | 21-6 | 21-7 | 21-8 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 |
| 425.00 | 24-4 | 24-5 | 24-6 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 |
| 450.00 | 27-3 | 27-5 | 27-6 | 27-7 | 27-9 | 27-10 | 28-0 | 28-1 | 28-2 | 28-3 |
| 475.00 | 30-5 | 30-6 | 30-8 | 30-10 | 30-11 | 31-1 | 31-2 | 31-4 | 31-5 | 31-6 |
| 500.00 | 33-8 | 33-10 | 34-0 | 34-2 | 34-3 | 34-5 | 34-7 | 34-9 | 34-10 | 34-11 |
| 525.00 | 37-2 | 37-4 | 37-6 | 37-8 | 37-10 | 38-0 | 38-2 | 38-4 | 38-5 | 38-6 |
| 550.00 | 40-10 | 41-0 | 41-2 | 41-4 | 41-7 | 41-9 | 41-11 | 42-1 | 42-2 | 42-4 |
| 575.00 | 44-8 | 44-10 | 45-1 | 45-3 | 45-5 | 45-8 | 45-10 | 46-0 | 46-2 | 46-3 |
| 600.00 | 48-8 | 48-10 | 49-1 | 49-4 | 49-6 | 49-9 | 49-11 | 50-2 | 50-3 | 50-5 |
| 625.00 | 52-10 | 53-1 | 53-4 | 53-6 | 53-9 | 54-0 | 54-3 | 54-5 | 54-7 | 54-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 0.99 | 2000 | 0.99 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.52 | 1249 | 0.48 | 1343 |
| 30 | 0 | 0 | 0 | 0.52 | 0.96 | 674 | 0.86 | 754 |
| 40 | 0 | 0 | 0 | 0.52 | 1.12 | 583 | 1.01 | 646 |
| 50 | 0 | 0 | 0 | 0.52 | 1.26 | 516 | 1.15 | 566 |
| 60 | 0 | 0 | 0 | 0.52 | 1.39 | 467 | 1.28 | 507 |
| 70 | 0 | 0 | 0 | 0.52 | 1.52 | 428 | 1.41 | 461 |
| 80 | 0 | 0 | 0 | 0.52 | 1.59 | 408 | 1.53 | 425 |
| 90 | 0 | 0 | 0 | 0.52 | 1.66 | 391 | 1.64 | 396 |
| 100 | 0 | 0 | 0 | 0.52 | 1.73 | 375 | 1.73 | 375 |
| 110 | 0 | 0 | 0 | 0.52 | 1.8 | 361 | 1.8 | 361 |
| 120 | 0 | 0 | 0 | 0.52 | 1.87 | 349 | 1.87 | 349 |
| 130 | 0 | 0 | 0 | 0.52 | 1.93 | 337 | 1.93 | 337 |
| 167 | 0 | 0 | 0 | 0.52 | 2.15 | 303 | 2.15 | 303 |
| 212 | 0 | 0 | 0 | 0.52 | 2.4 | 271 | 2.4 | 271 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 3.98 | 2000 | 3.98 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 3.34 | 778 | 3.23 | 806 |
| 30 | 0 | 0 | 0 | 0.52 | 3.95 | 660 | 3.82 | 682 |
| 40 | 0 | 0 | 0 | 0.52 | 4.13 | 630 | 4 | 651 |
| 50 | 0 | 0 | 0 | 0.52 | 4.31 | 604 | 4.18 | 624 |
| 60 | 0 | 0 | 0 | 0.52 | 4.49 | 581 | 4.35 | 599 |
| 70 | 0 | 0 | 0 | 0.52 | 4.65 | 560 | 4.51 | 577 |
| 80 | 0 | 0 | 0 | 0.52 | 4.82 | 541 | 4.68 | 557 |
| 90 | 0 | 0 | 0 | 0.52 | 4.94 | 527 | 4.83 | 539 |
| 100 | 0 | 0 | 0 | 0.52 | 5.04 | 517 | 4.99 | 523 |
| 110 | 0 | 0 | 0 | 0.52 | 5.14 | 508 | 5.14 | 508 |
| 120 | 0 | 0 | 0 | 0.52 | 5.23 | 498 | 5.23 | 498 |
| 130 | 0 | 0 | 0 | 0.52 | 5.33 | 489 | 5.33 | 489 |
| 167 | 0 | 0 | 0 | 0.52 | 5.66 | 460 | 5.66 | 460 |
| 212 | 0 | 0 | 0 | 0.52 | 6.05 | 431 | 6.05 | 431 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 8.98 | 2000 | 8.98 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 8.33 | 704 | 8.22 | 714 |
| 30 | 0 | 0 | 0 | 0.52 | 8.94 | 656 | 8.81 | 666 |
| 40 | 0 | 0 | 0 | 0.52 | 9.14 | 643 | 9 | 652 |
| 50 | 0 | 0 | 0 | 0.52 | 9.33 | 630 | 9.18 | 639 |
| 60 | 0 | 0 | 0 | 0.52 | 9.52 | 617 | 9.37 | 627 |
| 70 | 0 | 0 | 0 | 0.52 | 9.7 | 606 | 9.55 | 615 |
| 80 | 0 | 0 | 0 | 0.52 | 9.88 | 595 | 9.73 | 604 |
| 90 | 0 | 0 | 0 | 0.52 | 10.06 | 584 | 9.9 | 593 |
| 100 | 0 | 0 | 0 | 0.52 | 10.18 | 577 | 10.08 | 583 |
| 110 | 0 | 0 | 0 | 0.52 | 10.29 | 571 | 10.25 | 574 |
| 120 | 0 | 0 | 0 | 0.52 | 10.4 | 565 | 10.4 | 565 |
| 130 | 0 | 0 | 0 | 0.52 | 10.51 | 559 | 10.51 | 559 |
| 167 | 0 | 0 | 0 | 0.52 | 10.91 | 539 | 10.91 | 539 |
| 212 | 0 | 0 | 0 | 0.52 | 11.38 | 517 | 11.38 | 517 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 16.01 | 2000 | 16.01 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 15.36 | 681 | 15.24 | 686 |
| 30 | 0 | 0 | 0 | 0.52 | 15.97 | 655 | 15.84 | 661 |
| 40 | 0 | 0 | 0 | 0.52 | 16.17 | 647 | 16.03 | 653 |
| 50 | 0 | 0 | 0 | 0.52 | 16.37 | 640 | 16.22 | 645 |
| 60 | 0 | 0 | 0 | 0.52 | 16.56 | 632 | 16.41 | 638 |
| 70 | 0 | 0 | 0 | 0.52 | 16.75 | 625 | 16.6 | 631 |
| 80 | 0 | 0 | 0 | 0.52 | 16.94 | 618 | 16.78 | 624 |
| 90 | 0 | 0 | 0 | 0.52 | 17.13 | 612 | 16.96 | 617 |
| 100 | 0 | 0 | 0 | 0.52 | 17.28 | 607 | 17.15 | 611 |
| 110 | 0 | 0 | 0 | 0.52 | 17.4 | 602 | 17.33 | 605 |
| 120 | 0 | 0 | 0 | 0.52 | 17.52 | 598 | 17.51 | 599 |
| 130 | 0 | 0 | 0 | 0.52 | 17.64 | 594 | 17.64 | 594 |
| 167 | 0 | 0 | 0 | 0.52 | 18.07 | 580 | 18.07 | 580 |
| 212 | 0 | 0 | 0 | 0.52 | 18.59 | 564 | 18.59 | 564 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 25.11 | 2000 | 25.11 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 24.46 | 671 | 24.34 | 674 |
| 30 | 0 | 0 | 0 | 0.52 | 25.07 | 655 | 24.93 | 658 |
| 40 | 0 | 0 | 0 | 0.52 | 25.27 | 650 | 25.13 | 653 |
| 50 | 0 | 0 | 0 | 0.52 | 25.47 | 645 | 25.32 | 648 |
| 60 | 0 | 0 | 0 | 0.52 | 25.67 | 640 | 25.51 | 644 |
| 70 | 0 | 0 | 0 | 0.52 | 25.86 | 635 | 25.7 | 639 |
| 80 | 0 | 0 | 0 | 0.52 | 26.05 | 630 | 25.89 | 634 |
| 90 | 0 | 0 | 0 | 0.52 | 26.25 | 626 | 26.08 | 630 |
| 100 | 0 | 0 | 0 | 0.52 | 26.41 | 622 | 26.27 | 626 |
| 110 | 0 | 0 | 0 | 0.52 | 26.54 | 619 | 26.45 | 621 |
| 120 | 0 | 0 | 0 | 0.52 | 26.66 | 616 | 26.64 | 617 |
| 130 | 0 | 0 | 0 | 0.52 | 26.78 | 614 | 26.78 | 614 |
| 167 | 0 | 0 | 0 | 0.52 | 27.24 | 604 | 27.24 | 604 |
| 212 | 0 | 0 | 0 | 0.52 | 27.78 | 592 | 27.78 | 592 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-10 |
| 150.00 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-1 |
| 175.00 | 2-2 | 2-8 | 3-1 | 3-6 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-6 |
| 200.00 | 2-11 | 3-5 | 4-0 | 4-7 | 5-2 | 5-8 | 6-2 | 6-7 | 6-11 | 7-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-3 | 1-6 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 150.00 | 1-10 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 |
| 175.00 | 2-6 | 2-11 | 3-5 | 3-10 | 4-3 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 |
| 200.00 | 3-3 | 3-10 | 4-6 | 5-0 | 5-7 | 6-1 | 6-5 | 6-8 | 6-11 | 7-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 |
| 175.00 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 |
| 200.00 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 |
| 225.00 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-1 | 6-4 | 6-6 |
| 250.00 | 5-8 | 6-0 | 6-3 | 6-6 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 |
| 125.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 |
| 150.00 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-9 | 2-10 | 2-11 |
| 175.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 200.00 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 |
| 225.00 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-6 |
| 250.00 | 5-10 | 6-2 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.63

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 |
| 175.00 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 |
| 200.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 225.00 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 |
| 250.00 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 |
| 275.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 |
| 300.00 | 8-7 | 8-10 | 9-0 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 |
| 325.00 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 | 11-3 | 11-5 | 11-7 | 11-10 | 12-0 |
| 350.00 | 11-9 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 13-11 |
| 375.00 | 13-6 | 13-9 | 14-1 | 14-4 | 14-8 | 14-11 | 15-3 | 15-6 | 15-9 | 16-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 |
| 175.00 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 |
| 225.00 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 | 5-9 |
| 250.00 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 |
| 275.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-5 | 8-7 | 8-8 |
| 300.00 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-8 | 9-11 | 10-1 | 10-2 | 10-3 |
| 325.00 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 | 11-5 | 11-7 | 11-10 | 11-11 | 12-1 |
| 350.00 | 11-11 | 12-2 | 12-5 | 12-8 | 13-0 | 13-3 | 13-5 | 13-8 | 13-10 | 14-0 |
| 375.00 | 13-8 | 14-0 | 14-3 | 14-7 | 14-11 | 15-2 | 15-5 | 15-9 | 15-11 | 16-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 |
| 225.00 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 |
| 250.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 |
| 275.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 |
| 300.00 | 8-9 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-6 | 9-8 | 9-9 |
| 325.00 | 10-4 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 |
| 350.00 | 12-0 | 12-1 | 12-3 | 12-5 | 12-7 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 |
| 375.00 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 |
| 400.00 | 15-8 | 15-10 | 16-0 | 16-3 | 16-5 | 16-7 | 16-9 | 17-0 | 17-2 | 17-4 |
| 425.00 | 17-8 | 17-11 | 18-1 | 18-4 | 18-6 | 18-9 | 18-11 | 19-2 | 19-4 | 19-7 |
| 450.00 | 19-10 | 20-1 | 20-4 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 | 21-9 | 21-11 |
| 475.00 | 22-1 | 22-4 | 22-7 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-6 |
| 500.00 | 24-6 | 24-9 | 25-1 | 25-4 | 25-8 | 26-0 | 26-3 | 26-7 | 26-10 | 27-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 |
| 225.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 |
| 250.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 |
| 275.00 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 300.00 | 8-10 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 |
| 325.00 | 10-5 | 10-6 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 |
| 350.00 | 12-1 | 12-3 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 | 13-4 |
| 375.00 | 13-10 | 14-0 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-2 | 15-3 |
| 400.00 | 15-9 | 16-0 | 16-2 | 16-4 | 16-7 | 16-9 | 16-11 | 17-2 | 17-3 | 17-5 |
| 425.00 | 17-10 | 18-0 | 18-3 | 18-6 | 18-8 | 18-11 | 19-2 | 19-4 | 19-6 | 19-8 |
| 450.00 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-5 | 21-8 | 21-11 | 22-0 |
| 475.00 | 22-3 | 22-7 | 22-10 | 23-1 | 23-4 | 23-8 | 23-11 | 24-2 | 24-5 | 24-7 |
| 500.00 | 24-8 | 25-0 | 25-4 | 25-7 | 25-11 | 26-3 | 26-6 | 26-10 | 27-0 | 27-3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 |
| 275.00 | 7-6 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 |
| 300.00 | 8-11 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 |
| 325.00 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 350.00 | 12-1 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 |
| 375.00 | 13-11 | 14-0 | 14-1 | 14-3 | 14-4 | 14-5 | 14-6 | 14-8 | 14-9 | 14-10 |
| 400.00 | 15-10 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 | 16-11 |
| 425.00 | 17-10 | 18-0 | 18-2 | 18-3 | 18-5 | 18-7 | 18-8 | 18-10 | 18-11 | 19-1 |
| 450.00 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 20-11 | 21-1 | 21-3 | 21-5 |
| 475.00 | 22-4 | 22-6 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 | 23-10 |
| 500.00 | 24-9 | 24-11 | 25-2 | 25-4 | 25-6 | 25-8 | 25-11 | 26-1 | 26-3 | 26-5 |
| 525.00 | 27-3 | 27-6 | 27-9 | 27-11 | 28-2 | 28-4 | 28-7 | 28-9 | 29-0 | 29-2 |
| 550.00 | 29-11 | 30-2 | 30-5 | 30-8 | 30-11 | 31-1 | 31-4 | 31-7 | 31-10 | 32-0 |
| 575.00 | 32-9 | 33-0 | 33-3 | 33-6 | 33-9 | 34-0 | 34-3 | 34-6 | 34-9 | 35-0 |
| 600.00 | 35-8 | 35-11 | 36-3 | 36-6 | 36-10 | 37-1 | 37-4 | 37-7 | 37-11 | 38-2 |
| 625.00 | 38-9 | 39-0 | 39-4 | 39-8 | 39-11 | 40-3 | 40-6 | 40-10 | 41-2 | 41-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 | 6-7 |
| 275.00 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-0 |
| 300.00 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 |
| 325.00 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-2 |
| 350.00 | 12-2 | 12-3 | 12-4 | 12-5 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 |
| 375.00 | 14-0 | 14-1 | 14-2 | 14-4 | 14-5 | 14-6 | 14-8 | 14-9 | 14-10 | 14-11 |
| 400.00 | 15-11 | 16-0 | 16-2 | 16-3 | 16-5 | 16-6 | 16-8 | 16-9 | 16-11 | 17-0 |
| 425.00 | 17-11 | 18-1 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 |
| 450.00 | 20-2 | 20-4 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-6 |
| 475.00 | 22-5 | 22-7 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 | 23-10 | 23-11 |
| 500.00 | 24-10 | 25-1 | 25-3 | 25-6 | 25-8 | 25-10 | 26-1 | 26-3 | 26-5 | 26-6 |
| 525.00 | 27-5 | 27-8 | 27-10 | 28-1 | 28-4 | 28-6 | 28-9 | 28-11 | 29-2 | 29-3 |
| 550.00 | 30-1 | 30-4 | 30-7 | 30-10 | 31-1 | 31-4 | 31-7 | 31-9 | 32-0 | 32-2 |
| 575.00 | 32-11 | 33-2 | 33-5 | 33-9 | 34-0 | 34-3 | 34-6 | 34-9 | 35-0 | 35-2 |
| 600.00 | 35-10 | 36-2 | 36-5 | 36-9 | 37-0 | 37-4 | 37-7 | 37-10 | 38-1 | 38-3 |
| 625.00 | 38-11 | 39-3 | 39-7 | 39-10 | 40-2 | 40-6 | 40-10 | 41-1 | 41-4 | 41-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 0.8 | 2500 | 0.8 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 0.33 | 1954 | 0.32 | 2049 |
| 30 | 0 | 0 | 0 | 0.52 | 0.64 | 1009 | 0.54 | 1202 |
| 40 | 0 | 0 | 0 | 0.52 | 0.8 | 816 | 0.66 | 982 |
| 50 | 0 | 0 | 0 | 0.52 | 0.95 | 682 | 0.8 | 812 |
| 60 | 0 | 0 | 0 | 0.52 | 1.11 | 588 | 0.95 | 687 |
| 70 | 0 | 0 | 0 | 0.52 | 1.25 | 520 | 1.09 | 596 |
| 80 | 0 | 0 | 0 | 0.52 | 1.34 | 486 | 1.23 | 530 |
| 90 | 0 | 0 | 0 | 0.52 | 1.41 | 460 | 1.36 | 479 |
| 100 | 0 | 0 | 0 | 0.52 | 1.49 | 438 | 1.48 | 439 |
| 110 | 0 | 0 | 0 | 0.52 | 1.56 | 417 | 1.56 | 417 |
| 120 | 0 | 0 | 0 | 0.52 | 1.63 | 399 | 1.63 | 399 |
| 130 | 0 | 0 | 0 | 0.52 | 1.7 | 383 | 1.7 | 383 |
| 167 | 0 | 0 | 0 | 0.52 | 1.94 | 335 | 1.94 | 335 |
| 212 | 0 | 0 | 0 | 0.52 | 2.21 | 295 | 2.21 | 295 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 3.19 | 2500 | 3.19 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 2.24 | 1161 | 2.08 | 1249 |
| 30 | 0 | 0 | 0 | 0.52 | 2.96 | 878 | 2.76 | 942 |
| 40 | 0 | 0 | 0 | 0.52 | 3.19 | 817 | 2.98 | 873 |
| 50 | 0 | 0 | 0 | 0.52 | 3.4 | 765 | 3.19 | 815 |
| 60 | 0 | 0 | 0 | 0.52 | 3.61 | 722 | 3.4 | 766 |
| 70 | 0 | 0 | 0 | 0.52 | 3.81 | 684 | 3.59 | 724 |
| 80 | 0 | 0 | 0 | 0.52 | 4 | 651 | 3.79 | 688 |
| 90 | 0 | 0 | 0 | 0.52 | 4.16 | 626 | 3.97 | 656 |
| 100 | 0 | 0 | 0 | 0.52 | 4.27 | 610 | 4.15 | 628 |
| 110 | 0 | 0 | 0 | 0.52 | 4.38 | 595 | 4.32 | 603 |
| 120 | 0 | 0 | 0 | 0.52 | 4.49 | 580 | 4.49 | 580 |
| 130 | 0 | 0 | 0 | 0.52 | 4.59 | 567 | 4.59 | 567 |
| 167 | 0 | 0 | 0 | 0.52 | 4.97 | 525 | 4.97 | 525 |
| 212 | 0 | 0 | 0 | 0.52 | 5.39 | 483 | 5.39 | 483 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 7.18 | 2500 | 7.18 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 6.17 | 949 | 5.97 | 981 |
| 30 | 0 | 0 | 0 | 0.52 | 6.94 | 845 | 6.72 | 873 |
| 40 | 0 | 0 | 0 | 0.52 | 7.18 | 817 | 6.95 | 843 |
| 50 | 0 | 0 | 0 | 0.52 | 7.41 | 791 | 7.18 | 816 |
| 60 | 0 | 0 | 0 | 0.52 | 7.64 | 768 | 7.41 | 792 |
| 70 | 0 | 0 | 0 | 0.52 | 7.86 | 746 | 7.63 | 769 |
| 80 | 0 | 0 | 0 | 0.52 | 8.08 | 726 | 7.84 | 748 |
| 90 | 0 | 0 | 0 | 0.52 | 8.29 | 708 | 8.05 | 728 |
| 100 | 0 | 0 | 0 | 0.52 | 8.47 | 693 | 8.26 | 710 |
| 110 | 0 | 0 | 0 | 0.52 | 8.6 | 683 | 8.46 | 694 |
| 120 | 0 | 0 | 0 | 0.52 | 8.72 | 673 | 8.66 | 678 |
| 130 | 0 | 0 | 0 | 0.52 | 8.85 | 663 | 8.85 | 663 |
| 167 | 0 | 0 | 0 | 0.52 | 9.31 | 631 | 9.31 | 631 |
| 212 | 0 | 0 | 0 | 0.52 | 9.84 | 597 | 9.84 | 597 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 12.78 | 2500 | 12.78 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 11.77 | 887 | 11.57 | 902 |
| 30 | 0 | 0 | 0 | 0.52 | 12.54 | 833 | 12.31 | 848 |
| 40 | 0 | 0 | 0 | 0.52 | 12.78 | 817 | 12.55 | 832 |
| 50 | 0 | 0 | 0 | 0.52 | 13.02 | 802 | 12.79 | 817 |
| 60 | 0 | 0 | 0 | 0.52 | 13.26 | 788 | 13.02 | 802 |
| 70 | 0 | 0 | 0 | 0.52 | 13.5 | 774 | 13.25 | 788 |
| 80 | 0 | 0 | 0 | 0.52 | 13.73 | 761 | 13.48 | 775 |
| 90 | 0 | 0 | 0 | 0.52 | 13.95 | 749 | 13.7 | 763 |
| 100 | 0 | 0 | 0 | 0.52 | 14.18 | 737 | 13.92 | 751 |
| 110 | 0 | 0 | 0 | 0.52 | 14.33 | 730 | 14.14 | 739 |
| 120 | 0 | 0 | 0 | 0.52 | 14.47 | 723 | 14.35 | 728 |
| 130 | 0 | 0 | 0 | 0.52 | 14.61 | 716 | 14.57 | 718 |
| 167 | 0 | 0 | 0 | 0.52 | 15.11 | 692 | 15.11 | 692 |
| 212 | 0 | 0 | 0 | 0.52 | 15.71 | 666 | 15.71 | 666 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 20.01 | 2500 | 20.01 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 19 | 860 | 18.8 | 869 |
| 30 | 0 | 0 | 0 | 0.52 | 19.77 | 827 | 19.54 | 837 |
| 40 | 0 | 0 | 0 | 0.52 | 20.02 | 817 | 19.78 | 827 |
| 50 | 0 | 0 | 0 | 0.52 | 20.26 | 807 | 20.02 | 817 |
| 60 | 0 | 0 | 0 | 0.52 | 20.51 | 798 | 20.26 | 807 |
| 70 | 0 | 0 | 0 | 0.52 | 20.75 | 789 | 20.5 | 798 |
| 80 | 0 | 0 | 0 | 0.52 | 20.98 | 780 | 20.73 | 789 |
| 90 | 0 | 0 | 0 | 0.52 | 21.22 | 771 | 20.96 | 781 |
| 100 | 0 | 0 | 0 | 0.52 | 21.45 | 763 | 21.19 | 772 |
| 110 | 0 | 0 | 0 | 0.52 | 21.63 | 757 | 21.41 | 764 |
| 120 | 0 | 0 | 0 | 0.52 | 21.78 | 752 | 21.64 | 757 |
| 130 | 0 | 0 | 0 | 0.52 | 21.93 | 747 | 21.86 | 749 |
| 167 | 0 | 0 | 0 | 0.52 | 22.47 | 729 | 22.47 | 729 |
| 212 | 0 | 0 | 0 | 0.52 | 23.11 | 709 | 23.11 | 709 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 |
| 125.00 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-5 |
| 150.00 | 1-0 | 1-3 | 1-6 | 1-10 | 2-2 | 2-5 | 2-9 | 3-1 | 3-4 | 3-6 |
| 175.00 | 1-4 | 1-8 | 2-0 | 2-5 | 2-11 | 3-4 | 3-9 | 4-2 | 4-7 | 4-9 |
| 200.00 | 1-9 | 2-2 | 2-8 | 3-2 | 3-9 | 4-4 | 4-11 | 5-5 | 5-11 | 6-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 100.00 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 125.00 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 | 2-5 |
| 150.00 | 1-2 | 1-5 | 1-10 | 2-2 | 2-6 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 175.00 | 1-7 | 2-0 | 2-5 | 2-11 | 3-5 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 |
| 200.00 | 2-1 | 2-7 | 3-2 | 3-10 | 4-5 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 150.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 |
| 175.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 |
| 200.00 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 225.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-6 |
| 250.00 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 |
| 150.00 | 1-6 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 175.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 |
| 200.00 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 |
| 225.00 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 |
| 250.00 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 | 6-8 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 200.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 225.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 |
| 250.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-9 | 5-10 |
| 275.00 | 5-5 | 5-8 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 |
| 300.00 | 6-6 | 6-9 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-3 | 8-6 |
| 325.00 | 7-7 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 |
| 350.00 | 8-10 | 9-2 | 9-6 | 9-9 | 10-1 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 |
| 375.00 | 10-1 | 10-6 | 10-10 | 11-3 | 11-7 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 |
| 175.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 |
| 200.00 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 225.00 | 3-9 | 3-11 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 |
| 250.00 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 |
| 275.00 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-9 | 7-0 | 7-1 | 7-3 |
| 300.00 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-4 | 8-6 | 8-7 |
| 325.00 | 7-10 | 8-2 | 8-5 | 8-8 | 9-0 | 9-3 | 9-6 | 9-9 | 9-11 | 10-1 |
| 350.00 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-8 |
| 375.00 | 10-5 | 10-10 | 11-3 | 11-7 | 11-11 | 12-3 | 12-8 | 13-0 | 13-3 | 13-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.72

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 |
| 225.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 250.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 275.00 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 |
| 300.00 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 |
| 325.00 | 8-0 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-4 |
| 350.00 | 9-3 | 9-5 | 9-7 | 9-9 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 |
| 375.00 | 10-7 | 10-10 | 11-0 | 11-3 | 11-5 | 11-8 | 11-10 | 12-0 | 12-3 | 12-5 |
| 400.00 | 12-1 | 12-4 | 12-7 | 12-9 | 13-0 | 13-3 | 13-6 | 13-8 | 13-11 | 14-2 |
| 425.00 | 13-7 | 13-11 | 14-2 | 14-5 | 14-8 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 |
| 450.00 | 15-3 | 15-7 | 15-11 | 16-2 | 16-6 | 16-9 | 17-1 | 17-4 | 17-8 | 17-11 |
| 475.00 | 17-0 | 17-4 | 17-8 | 18-1 | 18-4 | 18-8 | 19-0 | 19-4 | 19-8 | 19-11 |
| 500.00 | 18-10 | 19-3 | 19-8 | 20-0 | 20-4 | 20-9 | 21-1 | 21-5 | 21-9 | 22-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 |
| 225.00 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 |
| 250.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 275.00 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 |
| 300.00 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 |
| 325.00 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-5 |
| 350.00 | 9-5 | 9-7 | 9-9 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 |
| 375.00 | 10-10 | 11-0 | 11-3 | 11-5 | 11-8 | 11-10 | 12-1 | 12-3 | 12-5 | 12-7 |
| 400.00 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 13-11 | 14-2 | 14-4 |
| 425.00 | 13-10 | 14-2 | 14-5 | 14-8 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-2 |
| 450.00 | 15-7 | 15-10 | 16-2 | 16-6 | 16-9 | 17-1 | 17-5 | 17-8 | 17-11 | 18-2 |
| 475.00 | 17-4 | 17-8 | 18-0 | 18-5 | 18-9 | 19-1 | 19-4 | 19-8 | 20-0 | 20-3 |
| 500.00 | 19-3 | 19-7 | 20-0 | 20-4 | 20-9 | 21-1 | 21-6 | 21-10 | 22-2 | 22-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 |
| 275.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 300.00 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 325.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 |
| 350.00 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 | 10-6 |
| 375.00 | 10-10 | 11-0 | 11-1 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 |
| 400.00 | 12-4 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-8 |
| 425.00 | 13-11 | 14-1 | 14-3 | 14-5 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 |
| 450.00 | 15-7 | 15-10 | 16-0 | 16-3 | 16-5 | 16-7 | 16-9 | 17-0 | 17-2 | 17-4 |
| 475.00 | 17-5 | 17-8 | 17-10 | 18-1 | 18-3 | 18-6 | 18-8 | 18-11 | 19-1 | 19-4 |
| 500.00 | 19-4 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-2 | 21-5 |
| 525.00 | 21-3 | 21-7 | 21-10 | 22-1 | 22-4 | 22-7 | 22-10 | 23-1 | 23-4 | 23-7 |
| 550.00 | 23-4 | 23-8 | 23-11 | 24-3 | 24-6 | 24-10 | 25-1 | 25-4 | 25-8 | 25-11 |
| 575.00 | 25-6 | 25-10 | 26-2 | 26-6 | 26-10 | 27-1 | 27-5 | 27-9 | 28-1 | 28-4 |
| 600.00 | 27-10 | 28-2 | 28-6 | 28-10 | 29-2 | 29-7 | 29-11 | 30-3 | 30-7 | 30-10 |
| 625.00 | 30-2 | 30-7 | 30-11 | 31-4 | 31-8 | 32-1 | 32-5 | 32-9 | 33-2 | 33-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 275.00 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-6 |
| 300.00 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-9 |
| 325.00 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 |
| 350.00 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 |
| 375.00 | 11-0 | 11-1 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 | 12-1 | 12-2 |
| 400.00 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-10 |
| 425.00 | 14-1 | 14-3 | 14-5 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-7 |
| 450.00 | 15-10 | 16-0 | 16-2 | 16-5 | 16-7 | 16-10 | 17-0 | 17-2 | 17-4 | 17-6 |
| 475.00 | 17-7 | 17-10 | 18-1 | 18-3 | 18-6 | 18-9 | 18-11 | 19-2 | 19-4 | 19-6 |
| 500.00 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-5 | 21-8 |
| 525.00 | 21-6 | 21-10 | 22-1 | 22-4 | 22-7 | 22-11 | 23-2 | 23-5 | 23-8 | 23-10 |
| 550.00 | 23-7 | 23-11 | 24-3 | 24-6 | 24-10 | 25-1 | 25-5 | 25-8 | 26-0 | 26-2 |
| 575.00 | 25-10 | 26-2 | 26-6 | 26-10 | 27-2 | 27-5 | 27-9 | 28-1 | 28-5 | 28-8 |
| 600.00 | 28-2 | 28-6 | 28-10 | 29-2 | 29-7 | 29-11 | 30-3 | 30-7 | 30-11 | 31-2 |
| 625.00 | 30-6 | 30-11 | 31-4 | 31-8 | 32-1 | 32-5 | 32-10 | 33-2 | 33-7 | 33-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 0.66 | 3000 | 0.66 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.25 | 2606 | 0.24 | 2686 |
| 30 | 0 | 0 | 0 | 0.52 | 0.44 | 1479 | 0.37 | 1768 |
| 40 | 0 | 0 | 0 | 0.52 | 0.55 | 1175 | 0.44 | 1478 |
| 50 | 0 | 0 | 0 | 0.52 | 0.69 | 937 | 0.54 | 1214 |
| 60 | 0 | 0 | 0 | 0.52 | 0.85 | 766 | 0.66 | 991 |
| 70 | 0 | 0 | 0 | 0.52 | 1.01 | 647 | 0.79 | 818 |
| 80 | 0 | 0 | 0 | 0.52 | 1.12 | 583 | 0.94 | 691 |
| 90 | 0 | 0 | 0 | 0.52 | 1.19 | 546 | 1.09 | 599 |
| 100 | 0 | 0 | 0 | 0.52 | 1.27 | 513 | 1.22 | 531 |
| 110 | 0 | 0 | 0 | 0.52 | 1.35 | 483 | 1.35 | 483 |
| 120 | 0 | 0 | 0 | 0.52 | 1.42 | 458 | 1.42 | 458 |
| 130 | 0 | 0 | 0 | 0.52 | 1.49 | 436 | 1.49 | 436 |
| 167 | 0 | 0 | 0 | 0.52 | 1.75 | 372 | 1.75 | 372 |
| 212 | 0 | 0 | 0 | 0.52 | 2.04 | 320 | 2.04 | 320 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 2.65 | 3000 | 2.65 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 1.49 | 1743 | 1.36 | 1912 |
| 30 | 0 | 0 | 0 | 0.52 | 2.21 | 1176 | 1.96 | 1329 |
| 40 | 0 | 0 | 0 | 0.52 | 2.46 | 1057 | 2.18 | 1191 |
| 50 | 0 | 0 | 0 | 0.52 | 2.7 | 963 | 2.41 | 1078 |
| 60 | 0 | 0 | 0 | 0.52 | 2.94 | 886 | 2.64 | 985 |
| 70 | 0 | 0 | 0 | 0.52 | 3.16 | 823 | 2.86 | 909 |
| 80 | 0 | 0 | 0 | 0.52 | 3.38 | 771 | 3.08 | 845 |
| 90 | 0 | 0 | 0 | 0.52 | 3.58 | 726 | 3.29 | 791 |
| 100 | 0 | 0 | 0 | 0.52 | 3.7 | 704 | 3.49 | 745 |
| 110 | 0 | 0 | 0 | 0.52 | 3.82 | 682 | 3.69 | 706 |
| 120 | 0 | 0 | 0 | 0.52 | 3.93 | 663 | 3.88 | 672 |
| 130 | 0 | 0 | 0 | 0.52 | 4.04 | 644 | 4.04 | 644 |
| 167 | 0 | 0 | 0 | 0.52 | 4.44 | 586 | 4.44 | 586 |
| 212 | 0 | 0 | 0 | 0.52 | 4.91 | 531 | 4.91 | 531 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 5.98 | 3000 | 5.98 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 4.57 | 1281 | 4.29 | 1366 |
| 30 | 0 | 0 | 0 | 0.52 | 5.47 | 1070 | 5.15 | 1137 |
| 40 | 0 | 0 | 0 | 0.52 | 5.76 | 1018 | 5.43 | 1079 |
| 50 | 0 | 0 | 0 | 0.52 | 6.03 | 971 | 5.7 | 1028 |
| 60 | 0 | 0 | 0 | 0.52 | 6.3 | 931 | 5.96 | 983 |
| 70 | 0 | 0 | 0 | 0.52 | 6.56 | 894 | 6.22 | 943 |
| 80 | 0 | 0 | 0 | 0.52 | 6.81 | 861 | 6.47 | 906 |
| 90 | 0 | 0 | 0 | 0.52 | 7.05 | 832 | 6.71 | 874 |
| 100 | 0 | 0 | 0 | 0.52 | 7.29 | 805 | 6.95 | 844 |
| 110 | 0 | 0 | 0 | 0.52 | 7.43 | 790 | 7.18 | 817 |
| 120 | 0 | 0 | 0 | 0.52 | 7.57 | 775 | 7.41 | 792 |
| 130 | 0 | 0 | 0 | 0.52 | 7.7 | 761 | 7.63 | 769 |
| 167 | 0 | 0 | 0 | 0.52 | 8.21 | 715 | 8.21 | 715 |
| 212 | 0 | 0 | 0 | 0.52 | 8.79 | 668 | 8.79 | 668 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 10.64 | 3000 | 10.64 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 9.19 | 1134 | 8.88 | 1174 |
| 30 | 0 | 0 | 0 | 0.52 | 10.12 | 1031 | 9.78 | 1066 |
| 40 | 0 | 0 | 0 | 0.52 | 10.41 | 1002 | 10.06 | 1036 |
| 50 | 0 | 0 | 0 | 0.52 | 10.7 | 975 | 10.34 | 1008 |
| 60 | 0 | 0 | 0 | 0.52 | 10.98 | 950 | 10.62 | 982 |
| 70 | 0 | 0 | 0 | 0.52 | 11.25 | 927 | 10.89 | 958 |
| 80 | 0 | 0 | 0 | 0.52 | 11.52 | 906 | 11.16 | 935 |
| 90 | 0 | 0 | 0 | 0.52 | 11.79 | 886 | 11.42 | 914 |
| 100 | 0 | 0 | 0 | 0.52 | 12.04 | 867 | 11.68 | 894 |
| 110 | 0 | 0 | 0 | 0.52 | 12.26 | 851 | 11.93 | 875 |
| 120 | 0 | 0 | 0 | 0.52 | 12.42 | 841 | 12.18 | 857 |
| 130 | 0 | 0 | 0 | 0.52 | 12.57 | 830 | 12.42 | 840 |
| 167 | 0 | 0 | 0 | 0.52 | 13.14 | 795 | 13.14 | 795 |
| 212 | 0 | 0 | 0 | 0.52 | 13.81 | 757 | 13.81 | 757 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.591 | 16.65 | 3000 | 16.65 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 15.19 | 1073 | 14.87 | 1096 |
| 30 | 0 | 0 | 0 | 0.52 | 16.12 | 1013 | 15.77 | 1035 |
| 40 | 0 | 0 | 0 | 0.52 | 16.41 | 994 | 16.06 | 1016 |
| 50 | 0 | 0 | 0 | 0.52 | 16.71 | 977 | 16.35 | 998 |
| 60 | 0 | 0 | 0 | 0.52 | 17 | 961 | 16.63 | 981 |
| 70 | 0 | 0 | 0 | 0.52 | 17.28 | 945 | 16.91 | 965 |
| 80 | 0 | 0 | 0 | 0.52 | 17.56 | 930 | 17.19 | 950 |
| 90 | 0 | 0 | 0 | 0.52 | 17.84 | 916 | 17.46 | 935 |
| 100 | 0 | 0 | 0 | 0.52 | 18.11 | 902 | 17.73 | 921 |
| 110 | 0 | 0 | 0 | 0.52 | 18.38 | 889 | 17.99 | 908 |
| 120 | 0 | 0 | 0 | 0.52 | 18.55 | 881 | 18.25 | 895 |
| 130 | 0 | 0 | 0 | 0.52 | 18.72 | 873 | 18.51 | 883 |
| 167 | 0 | 0 | 0 | 0.52 | 19.33 | 846 | 19.33 | 846 |
| 212 | 0 | 0 | 0 | 0.52 | 20.06 | 815 | 20.06 | 815 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-11 | 2-1 |
| 150.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-9 | 2-1 | 2-5 | 2-9 | 3-0 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-8 | 2-0 | 2-5 | 2-11 | 3-4 | 3-9 | 4-1 |
| 200.00 | 1-3 | 1-6 | 1-9 | 2-2 | 2-7 | 3-2 | 3-9 | 4-4 | 4-11 | 5-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 125.00 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 |
| 150.00 | 0-10 | 1-0 | 1-3 | 1-7 | 1-11 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 |
| 175.00 | 1-1 | 1-4 | 1-8 | 2-2 | 2-7 | 3-1 | 3-5 | 3-8 | 3-11 | 4-1 |
| 200.00 | 1-5 | 1-9 | 2-3 | 2-9 | 3-5 | 4-0 | 4-6 | 4-9 | 5-1 | 5-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AWTENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 |
| 175.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 200.00 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 |
| 225.00 | 2-2 | 2-6 | 2-9 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 |
| 250.00 | 2-9 | 3-1 | 3-5 | 3-9 | 4-2 | 4-6 | 4-10 | 5-2 | 5-5 | 5-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 0-11 |
| 125.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 |
| 150.00 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 |
| 175.00 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 2-11 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-7 | 3-8 | 3-10 |
| 225.00 | 2-6 | 2-10 | 3-1 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-8 | 4-10 |
| 250.00 | 3-1 | 3-5 | 3-10 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-9 | 6-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 |
| 225.00 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 |
| 250.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 275.00 | 4-1 | 4-4 | 4-7 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-0 |
| 300.00 | 4-10 | 5-2 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 | 6-11 | 7-2 |
| 325.00 | 5-9 | 6-1 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 | 8-5 |
| 350.00 | 6-8 | 7-0 | 7-5 | 7-9 | 8-1 | 8-6 | 8-10 | 9-2 | 9-6 | 9-9 |
| 375.00 | 7-7 | 8-1 | 8-6 | 8-11 | 9-4 | 9-9 | 10-1 | 10-6 | 10-10 | 11-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 |
| 175.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 |
| 200.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 |
| 225.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-2 |
| 250.00 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 |
| 275.00 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-1 | 6-3 |
| 300.00 | 5-2 | 5-6 | 5-9 | 6-0 | 6-4 | 6-7 | 6-10 | 7-1 | 7-3 | 7-5 |
| 325.00 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 | 8-7 | 8-9 |
| 350.00 | 7-1 | 7-5 | 7-10 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 | 9-11 | 10-1 |
| 375.00 | 8-1 | 8-7 | 9-0 | 9-5 | 9-10 | 10-3 | 10-8 | 11-0 | 11-5 | 11-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 |
| 225.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 250.00 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 |
| 275.00 | 4-6 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 |
| 300.00 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-7 | 6-8 |
| 325.00 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 |
| 350.00 | 7-3 | 7-6 | 7-8 | 7-11 | 8-2 | 8-4 | 8-6 | 8-9 | 8-11 | 9-2 |
| 375.00 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-0 | 10-3 | 10-6 |
| 400.00 | 9-6 | 9-9 | 10-1 | 10-4 | 10-7 | 10-11 | 11-2 | 11-5 | 11-8 | 11-11 |
| 425.00 | 10-8 | 11-0 | 11-4 | 11-8 | 12-0 | 12-4 | 12-7 | 12-11 | 13-2 | 13-6 |
| 450.00 | 12-0 | 12-4 | 12-9 | 13-1 | 13-5 | 13-9 | 14-2 | 14-5 | 14-9 | 15-1 |
| 475.00 | 13-5 | 13-9 | 14-2 | 14-7 | 15-0 | 15-4 | 15-9 | 16-1 | 16-6 | 16-10 |
| 500.00 | 14-10 | 15-3 | 15-9 | 16-2 | 16-7 | 17-0 | 17-5 | 17-10 | 18-3 | 18-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 |
| 225.00 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 250.00 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 275.00 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 |
| 300.00 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 |
| 325.00 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 |
| 350.00 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 |
| 375.00 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-1 | 10-4 | 10-7 | 10-9 |
| 400.00 | 9-10 | 10-1 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 | 12-1 | 12-3 |
| 425.00 | 11-1 | 11-5 | 11-9 | 12-1 | 12-5 | 12-8 | 13-0 | 13-4 | 13-7 | 13-10 |
| 450.00 | 12-5 | 12-10 | 13-2 | 13-6 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-6 |
| 475.00 | 13-10 | 14-3 | 14-8 | 15-1 | 15-6 | 15-10 | 16-3 | 16-8 | 17-0 | 17-4 |
| 500.00 | 15-4 | 15-10 | 16-3 | 16-9 | 17-2 | 17-7 | 18-0 | 18-5 | 18-10 | 19-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 |
| 275.00 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 300.00 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 |
| 325.00 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 |
| 350.00 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 |
| 375.00 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-1 |
| 400.00 | 9-11 | 10-1 | 10-3 | 10-5 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 |
| 425.00 | 11-2 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-10 | 13-0 |
| 450.00 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-8 | 13-11 | 14-2 | 14-4 | 14-7 |
| 475.00 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 |
| 500.00 | 15-6 | 15-9 | 16-1 | 16-4 | 16-8 | 16-11 | 17-2 | 17-5 | 17-9 | 18-0 |
| 525.00 | 17-1 | 17-5 | 17-9 | 18-0 | 18-4 | 18-8 | 18-11 | 19-3 | 19-7 | 19-10 |
| 550.00 | 18-9 | 19-1 | 19-5 | 19-9 | 20-2 | 20-6 | 20-10 | 21-2 | 21-5 | 21-9 |
| 575.00 | 20-6 | 20-10 | 21-3 | 21-8 | 22-0 | 22-4 | 22-9 | 23-1 | 23-5 | 23-10 |
| 600.00 | 22-4 | 22-9 | 23-2 | 23-7 | 24-0 | 24-4 | 24-9 | 25-2 | 25-7 | 25-11 |
| 625.00 | 24-2 | 24-8 | 25-1 | 25-7 | 26-0 | 26-5 | 26-11 | 27-4 | 27-9 | 28-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 |
| 275.00 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 300.00 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 325.00 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 |
| 350.00 | 7-9 | 7-11 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-10 | 9-0 |
| 375.00 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 | 10-4 |
| 400.00 | 10-1 | 10-4 | 10-6 | 10-8 | 10-10 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 |
| 425.00 | 11-5 | 11-8 | 11-10 | 12-1 | 12-3 | 12-6 | 12-8 | 12-11 | 13-1 | 13-3 |
| 450.00 | 12-10 | 13-1 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-5 | 14-8 | 14-11 |
| 475.00 | 14-3 | 14-7 | 14-10 | 15-1 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 |
| 500.00 | 15-10 | 16-1 | 16-5 | 16-8 | 17-0 | 17-3 | 17-7 | 17-10 | 18-1 | 18-5 |
| 525.00 | 17-5 | 17-9 | 18-1 | 18-5 | 18-9 | 19-1 | 19-4 | 19-8 | 20-0 | 20-3 |
| 550.00 | 19-2 | 19-6 | 19-10 | 20-3 | 20-7 | 20-11 | 21-3 | 21-7 | 21-11 | 22-3 |
| 575.00 | 20-11 | 21-4 | 21-9 | 22-1 | 22-6 | 22-10 | 23-3 | 23-7 | 24-0 | 24-4 |
| 600.00 | 22-9 | 23-3 | 23-8 | 24-1 | 24-6 | 24-11 | 25-4 | 25-8 | 26-1 | 26-6 |
| 625.00 | 24-9 | 25-2 | 25-8 | 26-2 | 26-7 | 27-0 | 27-6 | 27-11 | 28-4 | 28-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 4.93 | 1000 | 4.93 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 4.82 | 136 | 4.79 | 137 |
| 30 | 0 | 0 | 0 | 0.52 | 4.97 | 132 | 4.94 | 133 |
| 40 | 0 | 0 | 0 | 0.52 | 5.01 | 131 | 4.99 | 132 |
| 50 | 0 | 0 | 0 | 0.52 | 5.05 | 130 | 5.03 | 131 |
| 60 | 0 | 0 | 0 | 0.52 | 5.07 | 129 | 5.07 | 130 |
| 70 | 0 | 0 | 0 | 0.52 | 5.1 | 129 | 5.1 | 129 |
| 80 | 0 | 0 | 0 | 0.52 | 5.13 | 128 | 5.13 | 128 |
| 90 | 0 | 0 | 0 | 0.52 | 5.15 | 127 | 5.15 | 127 |
| 100 | 0 | 0 | 0 | 0.52 | 5.18 | 127 | 5.18 | 127 |
| 110 | 0 | 0 | 0 | 0.52 | 5.21 | 126 | 5.21 | 126 |
| 120 | 0 | 0 | 0 | 0.52 | 5.23 | 126 | 5.23 | 126 |
| 130 | 0 | 0 | 0 | 0.52 | 5.26 | 125 | 5.26 | 125 |
| 167 | 0 | 0 | 0 | 0.52 | 5.35 | 123 | 5.35 | 123 |
| 212 | 0 | 0 | 0 | 0.52 | 5.46 | 120 | 5.46 | 120 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 20.33 | 1000 | 20.33 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 20.22 | 134 | 20.2 | 134 |
| 30 | 0 | 0 | 0 | 0.52 | 20.37 | 133 | 20.34 | 133 |
| 40 | 0 | 0 | 0 | 0.52 | 20.41 | 133 | 20.39 | 133 |
| 50 | 0 | 0 | 0 | 0.52 | 20.45 | 132 | 20.43 | 133 |
| 60 | 0 | 0 | 0 | 0.52 | 20.47 | 132 | 20.47 | 132 |
| 70 | 0 | 0 | 0 | 0.52 | 20.5 | 132 | 20.5 | 132 |
| 80 | 0 | 0 | 0 | 0.52 | 20.53 | 132 | 20.53 | 132 |
| 90 | 0 | 0 | 0 | 0.52 | 20.56 | 132 | 20.56 | 132 |
| 100 | 0 | 0 | 0 | 0.52 | 20.58 | 132 | 20.58 | 132 |
| 110 | 0 | 0 | 0 | 0.52 | 20.61 | 132 | 20.61 | 132 |
| 120 | 0 | 0 | 0 | 0.52 | 20.64 | 131 | 20.64 | 131 |
| 130 | 0 | 0 | 0 | 0.52 | 20.67 | 131 | 20.67 | 131 |
| 167 | 0 | 0 | 0 | 0.52 | 20.77 | 131 | 20.77 | 131 |
| 212 | 0 | 0 | 0 | 0.52 | 20.89 | 130 | 20.89 | 130 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 48.55 | 1000 | 48.55 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 48.45 | 133 | 48.42 | 134 |
| 30 | 0 | 0 | 0 | 0.52 | 48.59 | 133 | 48.57 | 133 |
| 40 | 0 | 0 | 0 | 0.52 | 48.63 | 133 | 48.61 | 133 |
| 50 | 0 | 0 | 0 | 0.52 | 48.67 | 133 | 48.65 | 133 |
| 60 | 0 | 0 | 0 | 0.52 | 48.7 | 133 | 48.69 | 133 |
| 70 | 0 | 0 | 0 | 0.52 | 48.73 | 133 | 48.73 | 133 |
| 80 | 0 | 0 | 0 | 0.52 | 48.75 | 133 | 48.75 | 133 |
| 90 | 0 | 0 | 0 | 0.52 | 48.78 | 133 | 48.78 | 133 |
| 100 | 0 | 0 | 0 | 0.52 | 48.81 | 133 | 48.81 | 133 |
| 110 | 0 | 0 | 0 | 0.52 | 48.84 | 133 | 48.84 | 133 |
| 120 | 0 | 0 | 0 | 0.52 | 48.86 | 133 | 48.86 | 133 |
| 130 | 0 | 0 | 0 | 0.52 | 48.89 | 132 | 48.89 | 132 |
| 167 | 0 | 0 | 0 | 0.52 | 48.99 | 132 | 48.99 | 132 |
| 212 | 0 | 0 | 0 | 0.52 | 49.11 | 132 | 49.11 | 132 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 96.53 | 1000 | 96.53 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 96.43 | 133 | 96.4 | 133 |
| 30 | 0 | 0 | 0 | 0.52 | 96.57 | 133 | 96.55 | 133 |
| 40 | 0 | 0 | 0 | 0.52 | 96.61 | 133 | 96.59 | 133 |
| 50 | 0 | 0 | 0 | 0.52 | 96.65 | 133 | 96.63 | 133 |
| 60 | 0 | 0 | 0 | 0.52 | 96.67 | 133 | 96.67 | 133 |
| 70 | 0 | 0 | 0 | 0.52 | 96.7 | 133 | 96.7 | 133 |
| 80 | 0 | 0 | 0 | 0.52 | 96.73 | 133 | 96.73 | 133 |
| 90 | 0 | 0 | 0 | 0.52 | 96.75 | 133 | 96.75 | 133 |
| 100 | 0 | 0 | 0 | 0.52 | 96.78 | 133 | 96.78 | 133 |
| 110 | 0 | 0 | 0 | 0.52 | 96.81 | 133 | 96.81 | 133 |
| 120 | 0 | 0 | 0 | 0.52 | 96.83 | 133 | 96.83 | 133 |
| 130 | 0 | 0 | 0 | 0.52 | 96.86 | 133 | 96.86 | 133 |
| 167 | 0 | 0 | 0 | 0.52 | 96.96 | 133 | 96.96 | 133 |
| 212 | 0 | 0 | 0 | 0.52 | 97.08 | 133 | 97.08 | 133 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2- 9 | 2- 9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 2-11 |
| 100.00 | 4-11 | 4-11 | 5- 0 | 5- 0 | 5- 1 | 5- 1 | 5- 2 | 5- 2 | 5- 2 | 5- 2 |
| 125.00 | 7- 8 | 7- 9 | 7-10 | 7-10 | 7-11 | 8- 0 | 8- 0 | 8- 1 | 8- 1 | 8- 2 |
| 150.00 | 11- 1 | 11- 2 | 11- 3 | 11- 4 | 11- 5 | 11- 6 | 11- 7 | 11- 8 | 11- 8 | 11- 9 |
| 175.00 | 15- 1 | 15- 3 | 15- 5 | 15- 6 | 15- 8 | 15- 9 | 15-10 | 15-11 | 16- 0 | 16- 1 |
| 200.00 | 19- 9 | 20- 0 | 20- 2 | 20- 4 | 20- 6 | 20- 7 | 20- 9 | 20-10 | 20-11 | 21- 1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2- 9 | 2- 9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 2-11 |
| 100.00 | 4-11 | 5- 0 | 5- 0 | 5- 1 | 5- 1 | 5- 1 | 5- 2 | 5- 2 | 5- 2 | 5- 2 |
| 125.00 | 7- 8 | 7- 9 | 7-10 | 7-11 | 7-11 | 8- 0 | 8- 0 | 8- 1 | 8- 1 | 8- 2 |
| 150.00 | 11- 1 | 11- 3 | 11- 4 | 11- 5 | 11- 6 | 11- 6 | 11- 7 | 11- 8 | 11- 8 | 11- 9 |
| 175.00 | 15- 2 | 15- 4 | 15- 5 | 15- 7 | 15- 8 | 15- 9 | 15-10 | 15-11 | 16- 0 | 16- 1 |
| 200.00 | 19-11 | 20- 1 | 20- 3 | 20- 5 | 20- 6 | 20- 7 | 20- 9 | 20-10 | 20-11 | 21- 1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.85

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 5- 0 | 5- 0 | 5- 1 | 5- 1 | 5- 1 | 5- 1 | 5- 1 | 5- 1 | 5- 1 | 5- 1 |
| 125.00 | 7-10 | 7-11 | 7-11 | 7-11 | 7-11 | 7-11 | 7-11 | 8- 0 | 8- 0 | 8- 0 |
| 150.00 | 11- 4 | 11- 5 | 11- 5 | 11- 5 | 11- 5 | 11- 6 | 11- 6 | 11- 6 | 11- 6 | 11- 6 |
| 175.00 | 15- 6 | 15- 6 | 15- 7 | 15- 7 | 15- 7 | 15- 8 | 15- 8 | 15- 8 | 15- 9 | 15- 9 |
| 200.00 | 20- 4 | 20- 4 | 20- 5 | 20- 5 | 20- 6 | 20- 6 | 20- 6 | 20- 7 | 20- 7 | 20- 7 |
| 225.00 | 25- 9 | 25-10 | 25-11 | 25-11 | 26- 0 | 26- 1 | 26- 1 | 26- 1 | 26- 2 | 26- 2 |
| 250.00 | 31-11 | 32- 0 | 32- 1 | 32- 2 | 32- 3 | 32- 3 | 32- 4 | 32- 4 | 32- 5 | 32- 5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 5- 0 | 5- 0 | 5- 1 | 5- 1 | 5- 1 | 5- 1 | 5- 1 | 5- 1 | 5- 1 | 5- 1 |
| 125.00 | 7-10 | 7-11 | 7-11 | 7-11 | 7-11 | 7-11 | 7-11 | 8- 0 | 8- 0 | 8- 0 |
| 150.00 | 11- 4 | 11- 5 | 11- 5 | 11- 5 | 11- 5 | 11- 6 | 11- 6 | 11- 6 | 11- 6 | 11- 6 |
| 175.00 | 15- 6 | 15- 7 | 15- 7 | 15- 7 | 15- 8 | 15- 8 | 15- 8 | 15- 8 | 15- 9 | 15- 9 |
| 200.00 | 20- 4 | 20- 4 | 20- 5 | 20- 5 | 20- 6 | 20- 6 | 20- 6 | 20- 7 | 20- 7 | 20- 7 |
| 225.00 | 25-10 | 25-10 | 25-11 | 26- 0 | 26- 0 | 26- 1 | 26- 1 | 26- 1 | 26- 2 | 26- 2 |
| 250.00 | 32- 0 | 32- 1 | 32- 2 | 32- 2 | 32- 3 | 32- 3 | 32- 4 | 32- 4 | 32- 5 | 32- 5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.86

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 11-10 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 |
| 175.00 | 16- 2 | 16- 2 | 16- 2 | 16- 2 | 16- 3 | 16- 3 | 16- 3 | 16- 3 | 16- 3 | 16- 3 |
| 200.00 | 21- 2 | 21- 2 | 21- 3 | 21- 3 | 21- 3 | 21- 3 | 21- 3 | 21- 3 | 21- 4 | 21- 4 |
| 225.00 | 26-11 | 26-11 | 26-11 | 27- 0 | 27- 0 | 27- 0 | 27- 0 | 27- 1 | 27- 1 | 27- 1 |
| 250.00 | 33- 4 | 33- 5 | 33- 5 | 33- 5 | 33- 6 | 33- 6 | 33- 6 | 33- 6 | 33- 7 | 33- 7 |
| 275.00 | 40- 7 | 40- 7 | 40- 8 | 40- 8 | 40- 8 | 40- 9 | 40- 9 | 40- 9 | 40-10 | 40-10 |
| 300.00 | 48- 6 | 48- 7 | 48- 7 | 48- 8 | 48- 8 | 48- 9 | 48- 9 | 48- 9 | 48-10 | 48-10 |
| 325.00 | 57- 3 | 57- 4 | 57- 5 | 57- 5 | 57- 6 | 57- 6 | 57- 7 | 57- 7 | 57- 7 | 57- 8 |
| 350.00 | 66-10 | 66-11 | 66-11 | 67- 0 | 67- 1 | 67- 1 | 67- 2 | 67- 2 | 67- 3 | 67- 3 |
| 375.00 | 77- 2 | 77- 3 | 77- 4 | 77- 5 | 77- 6 | 77- 7 | 77- 7 | 77- 8 | 77- 8 | 77- 9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 11-10 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 |
| 175.00 | 16- 2 | 16- 2 | 16- 2 | 16- 3 | 16- 3 | 16- 3 | 16- 3 | 16- 3 | 16- 3 | 16- 3 |
| 200.00 | 21- 2 | 21- 2 | 21- 3 | 21- 3 | 21- 3 | 21- 3 | 21- 3 | 21- 3 | 21- 4 | 21- 4 |
| 225.00 | 26-11 | 26-11 | 27- 0 | 27- 0 | 27- 0 | 27- 0 | 27- 0 | 27- 1 | 27- 1 | 27- 1 |
| 250.00 | 33- 5 | 33- 5 | 33- 5 | 33- 6 | 33- 6 | 33- 6 | 33- 6 | 33- 6 | 33- 7 | 33- 7 |
| 275.00 | 40- 7 | 40- 7 | 40- 8 | 40- 8 | 40- 8 | 40- 9 | 40- 9 | 40- 9 | 40-10 | 40-10 |
| 300.00 | 48- 7 | 48- 7 | 48- 8 | 48- 8 | 48- 8 | 48- 9 | 48- 9 | 48- 9 | 48-10 | 48-10 |
| 325.00 | 57- 4 | 57- 4 | 57- 5 | 57- 5 | 57- 6 | 57- 6 | 57- 7 | 57- 7 | 57- 7 | 57- 8 |
| 350.00 | 66-10 | 66-11 | 67- 0 | 67- 0 | 67- 1 | 67- 1 | 67- 2 | 67- 2 | 67- 3 | 67- 3 |
| 375.00 | 77- 3 | 77- 4 | 77- 5 | 77- 5 | 77- 6 | 77- 7 | 77- 7 | 77- 8 | 77- 8 | 77- 9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 22-11 | 22-11 | 22-11 | 23- 0 | 23- 0 | 23- 0 | 23- 0 | 23- 0 | 23- 0 | 23- 0 |
| 225.00 | 29- 2 | 29- 2 | 29- 2 | 29- 2 | 29- 3 | 29- 3 | 29- 3 | 29- 3 | 29- 3 | 29- 3 |
| 250.00 | 36- 2 | 36- 2 | 36- 3 | 36- 3 | 36- 3 | 36- 3 | 36- 3 | 36- 3 | 36- 3 | 36- 3 |
| 275.00 | 44- 0 | 44- 1 | 44- 1 | 44- 1 | 44- 1 | 44- 1 | 44- 1 | 44- 2 | 44- 2 | 44- 2 |
| 300.00 | 52- 9 | 52- 9 | 52- 9 | 52- 9 | 52-10 | 52-10 | 52-10 | 52-10 | 52-10 | 52-10 |
| 325.00 | 62- 3 | 62- 4 | 62- 4 | 62- 4 | 62- 4 | 62- 5 | 62- 5 | 62- 5 | 62- 5 | 62- 6 |
| 350.00 | 72- 9 | 72- 9 | 72-10 | 72-10 | 72-10 | 72-11 | 72-11 | 72-11 | 72-11 | 72-11 |
| 375.00 | 84- 2 | 84- 2 | 84- 2 | 84- 3 | 84- 3 | 84- 4 | 84- 4 | 84- 4 | 84- 4 | 84- 5 |
| 400.00 | 96- 6 | 96- 7 | 96- 7 | 96- 8 | 96- 8 | 96- 8 | 96- 9 | 96- 9 | 96- 9 | 96-10 |
| 425.00 | 109-11 | 109-11 | 110- 0 | 110- 0 | 110- 1 | 110- 1 | 110- 2 | 110- 2 | 110- 2 | 110- 3 |
| 450.00 | 124- 4 | 124- 5 | 124- 5 | 124- 6 | 124- 7 | 124- 7 | 124- 7 | 124- 8 | 124- 8 | 124- 9 |
| 475.00 | 139-10 | 139-11 | 140- 0 | 140- 1 | 140- 1 | 140- 2 | 140- 2 | 140- 3 | 140- 3 | 140- 4 |
| 500.00 | 156- 6 | 156- 7 | 156- 8 | 156- 9 | 156-10 | 156-11 | 156-11 | 157- 0 | 157- 0 | 157- 1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 22-11 | 22-11 | 23- 0 | 23- 0 | 23- 0 | 23- 0 | 23- 0 | 23- 0 | 23- 0 | 23- 0 |
| 225.00 | 29- 2 | 29- 2 | 29- 2 | 29- 2 | 29- 3 | 29- 3 | 29- 3 | 29- 3 | 29- 3 | 29- 3 |
| 250.00 | 36- 2 | 36- 2 | 36- 3 | 36- 3 | 36- 3 | 36- 3 | 36- 3 | 36- 3 | 36- 3 | 36- 3 |
| 275.00 | 44- 0 | 44- 1 | 44- 1 | 44- 1 | 44- 1 | 44- 1 | 44- 1 | 44- 2 | 44- 2 | 44- 2 |
| 300.00 | 52- 9 | 52- 9 | 52- 9 | 52- 9 | 52-10 | 52-10 | 52-10 | 52-10 | 52-10 | 52-10 |
| 325.00 | 62- 3 | 62- 4 | 62- 4 | 62- 4 | 62- 5 | 62- 5 | 62- 5 | 62- 5 | 62- 5 | 62- 6 |
| 350.00 | 72- 9 | 72- 9 | 72-10 | 72-10 | 72-10 | 72-11 | 72-11 | 72-11 | 72-11 | 72-11 |
| 375.00 | 84- 2 | 84- 2 | 84- 3 | 84- 3 | 84- 3 | 84- 4 | 84- 4 | 84- 4 | 84- 4 | 84- 5 |
| 400.00 | 96- 6 | 96- 7 | 96- 7 | 96- 8 | 96- 8 | 96- 8 | 96- 9 | 96- 9 | 96- 9 | 96-10 |
| 425.00 | 109-11 | 110- 0 | 110- 0 | 110- 1 | 110- 1 | 110- 1 | 110- 2 | 110- 2 | 110- 2 | 110- 3 |
| 450.00 | 124- 4 | 124- 5 | 124- 6 | 124- 6 | 124- 7 | 124- 7 | 124- 7 | 124- 8 | 124- 8 | 124- 9 |
| 475.00 | 139-11 | 139-11 | 140- 0 | 140- 1 | 140- 1 | 140- 2 | 140- 2 | 140- 3 | 140- 3 | 140- 4 |
| 500.00 | 156- 7 | 156- 8 | 156- 9 | 156-10 | 156-10 | 156-11 | 156-11 | 157- 0 | 157- 0 | 157- 1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 3.27 | 1500 | 3.27 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 3.06 | 213 | 3 | 218 |
| 30 | 0 | 0 | 0 | 0.52 | 3.26 | 200 | 3.22 | 202 |
| 40 | 0 | 0 | 0 | 0.52 | 3.32 | 196 | 3.29 | 199 |
| 50 | 0 | 0 | 0 | 0.52 | 3.38 | 193 | 3.34 | 195 |
| 60 | 0 | 0 | 0 | 0.52 | 3.42 | 191 | 3.4 | 192 |
| 70 | 0 | 0 | 0 | 0.52 | 3.46 | 189 | 3.46 | 189 |
| 80 | 0 | 0 | 0 | 0.52 | 3.5 | 187 | 3.5 | 187 |
| 90 | 0 | 0 | 0 | 0.52 | 3.54 | 185 | 3.54 | 185 |
| 100 | 0 | 0 | 0 | 0.52 | 3.58 | 183 | 3.58 | 183 |
| 110 | 0 | 0 | 0 | 0.52 | 3.61 | 181 | 3.61 | 181 |
| 120 | 0 | 0 | 0 | 0.52 | 3.65 | 179 | 3.65 | 179 |
| 130 | 0 | 0 | 0 | 0.52 | 3.69 | 177 | 3.69 | 177 |
| 167 | 0 | 0 | 0 | 0.52 | 3.82 | 171 | 3.82 | 171 |
| 212 | 0 | 0 | 0 | 0.52 | 3.97 | 165 | 3.97 | 165 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 13.24 | 1500 | 13.24 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 13.03 | 203 | 12.97 | 204 |
| 30 | 0 | 0 | 0 | 0.52 | 13.23 | 200 | 13.2 | 200 |
| 40 | 0 | 0 | 0 | 0.52 | 13.3 | 199 | 13.26 | 200 |
| 50 | 0 | 0 | 0 | 0.52 | 13.36 | 198 | 13.32 | 199 |
| 60 | 0 | 0 | 0 | 0.52 | 13.4 | 198 | 13.38 | 198 |
| 70 | 0 | 0 | 0 | 0.52 | 13.44 | 197 | 13.44 | 197 |
| 80 | 0 | 0 | 0 | 0.52 | 13.48 | 196 | 13.48 | 196 |
| 90 | 0 | 0 | 0 | 0.52 | 13.52 | 196 | 13.52 | 196 |
| 100 | 0 | 0 | 0 | 0.52 | 13.56 | 195 | 13.56 | 195 |
| 110 | 0 | 0 | 0 | 0.52 | 13.6 | 195 | 13.6 | 195 |
| 120 | 0 | 0 | 0 | 0.52 | 13.64 | 194 | 13.64 | 194 |
| 130 | 0 | 0 | 0 | 0.52 | 13.68 | 194 | 13.68 | 194 |
| 167 | 0 | 0 | 0 | 0.52 | 13.83 | 192 | 13.83 | 192 |
| 212 | 0 | 0 | 0 | 0.52 | 14.01 | 189 | 14.01 | 189 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 30.49 | 1500 | 30.49 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 30.29 | 201 | 30.23 | 201 |
| 30 | 0 | 0 | 0 | 0.52 | 30.49 | 200 | 30.45 | 200 |
| 40 | 0 | 0 | 0 | 0.52 | 30.55 | 199 | 30.51 | 200 |
| 50 | 0 | 0 | 0 | 0.52 | 30.61 | 199 | 30.57 | 199 |
| 60 | 0 | 0 | 0 | 0.52 | 30.65 | 199 | 30.63 | 199 |
| 70 | 0 | 0 | 0 | 0.52 | 30.69 | 199 | 30.69 | 199 |
| 80 | 0 | 0 | 0 | 0.52 | 30.73 | 198 | 30.73 | 198 |
| 90 | 0 | 0 | 0 | 0.52 | 30.78 | 198 | 30.78 | 198 |
| 100 | 0 | 0 | 0 | 0.52 | 30.82 | 198 | 30.82 | 198 |
| 110 | 0 | 0 | 0 | 0.52 | 30.86 | 198 | 30.86 | 198 |
| 120 | 0 | 0 | 0 | 0.52 | 30.9 | 197 | 30.9 | 197 |
| 130 | 0 | 0 | 0 | 0.52 | 30.94 | 197 | 30.94 | 197 |
| 167 | 0 | 0 | 0 | 0.52 | 31.09 | 196 | 31.09 | 196 |
| 212 | 0 | 0 | 0 | 0.52 | 31.27 | 195 | 31.27 | 195 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 56.18 | 1500 | 56.18 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 55.98 | 200 | 55.92 | 201 |
| 30 | 0 | 0 | 0 | 0.52 | 56.17 | 200 | 56.14 | 200 |
| 40 | 0 | 0 | 0 | 0.52 | 56.24 | 200 | 56.2 | 200 |
| 50 | 0 | 0 | 0 | 0.52 | 56.3 | 199 | 56.26 | 200 |
| 60 | 0 | 0 | 0 | 0.52 | 56.34 | 199 | 56.32 | 199 |
| 70 | 0 | 0 | 0 | 0.52 | 56.38 | 199 | 56.38 | 199 |
| 80 | 0 | 0 | 0 | 0.52 | 56.42 | 199 | 56.42 | 199 |
| 90 | 0 | 0 | 0 | 0.52 | 56.46 | 199 | 56.46 | 199 |
| 100 | 0 | 0 | 0 | 0.52 | 56.51 | 199 | 56.51 | 199 |
| 110 | 0 | 0 | 0 | 0.52 | 56.55 | 199 | 56.55 | 199 |
| 120 | 0 | 0 | 0 | 0.52 | 56.59 | 199 | 56.59 | 199 |
| 130 | 0 | 0 | 0 | 0.52 | 56.63 | 198 | 56.63 | 198 |
| 167 | 0 | 0 | 0 | 0.52 | 56.78 | 198 | 56.78 | 198 |
| 212 | 0 | 0 | 0 | 0.52 | 56.96 | 197 | 56.96 | 197 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 92.59 | 1500 | 92.59 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 92.39 | 200 | 92.33 | 200 |
| 30 | 0 | 0 | 0 | 0.52 | 92.58 | 200 | 92.55 | 200 |
| 40 | 0 | 0 | 0 | 0.52 | 92.65 | 200 | 92.61 | 200 |
| 50 | 0 | 0 | 0 | 0.52 | 92.71 | 200 | 92.67 | 200 |
| 60 | 0 | 0 | 0 | 0.52 | 92.75 | 200 | 92.73 | 200 |
| 70 | 0 | 0 | 0 | 0.52 | 92.79 | 199 | 92.79 | 200 |
| 80 | 0 | 0 | 0 | 0.52 | 92.83 | 199 | 92.83 | 199 |
| 90 | 0 | 0 | 0 | 0.52 | 92.87 | 199 | 92.87 | 199 |
| 100 | 0 | 0 | 0 | 0.52 | 92.91 | 199 | 92.91 | 199 |
| 110 | 0 | 0 | 0 | 0.52 | 92.95 | 199 | 92.95 | 199 |
| 120 | 0 | 0 | 0 | 0.52 | 92.99 | 199 | 92.99 | 199 |
| 130 | 0 | 0 | 0 | 0.52 | 93.04 | 199 | 93.04 | 199 |
| 167 | 0 | 0 | 0 | 0.52 | 93.19 | 199 | 93.19 | 199 |
| 212 | 0 | 0 | 0 | 0.52 | 93.37 | 199 | 93.37 | 199 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 |
| 100.00 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 |
| 125.00 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 |
| 150.00 | 7-1 | 7-3 | 7-5 | 7-6 | 7-8 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 |
| 175.00 | 9-8 | 9-11 | 10-1 | 10-3 | 10-5 | 10-8 | 10-9 | 10-10 | 11-0 | 11-1 |
| 200.00 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-11 | 14-1 | 14-3 | 14-4 | 14-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 |
| 100.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 |
| 125.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 |
| 150.00 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 |
| 175.00 | 9-10 | 10-0 | 10-2 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 | 11-0 | 11-1 |
| 200.00 | 12-10 | 13-1 | 13-4 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 | 14-4 | 14-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.92

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 |
| 125.00 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-3 | 5-4 |
| 150.00 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 |
| 175.00 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 |
| 200.00 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 |
| 225.00 | 16-8 | 16-9 | 16-10 | 16-11 | 16-11 | 17-0 | 17-1 | 17-2 | 17-2 | 17-3 |
| 250.00 | 20-7 | 20-8 | 20-9 | 20-11 | 21-0 | 21-1 | 21-2 | 21-2 | 21-3 | 21-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 |
| 125.00 | 5-2 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-3 | 5-3 | 5-4 |
| 150.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 |
| 175.00 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 |
| 200.00 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 |
| 225.00 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 | 17-2 | 17-3 |
| 250.00 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-2 | 21-3 | 21-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS



OH811.93

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 |
| 175.00 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 |
| 200.00 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 |
| 225.00 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 |
| 250.00 | 21-0 | 21-1 | 21-1 | 21-2 | 21-2 | 21-3 | 21-3 | 21-3 | 21-4 | 21-4 |
| 275.00 | 25-6 | 25-6 | 25-7 | 25-8 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 | 25-10 |
| 300.00 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-8 | 30-9 | 30-9 | 30-10 | 30-10 |
| 325.00 | 35-9 | 35-10 | 35-11 | 36-0 | 36-0 | 36-1 | 36-2 | 36-2 | 36-3 | 36-4 |
| 350.00 | 41-6 | 41-8 | 41-9 | 41-10 | 41-11 | 42-0 | 42-0 | 42-1 | 42-2 | 42-3 |
| 375.00 | 47-10 | 47-11 | 48-0 | 48-2 | 48-3 | 48-4 | 48-5 | 48-5 | 48-6 | 48-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 |
| 175.00 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 |
| 200.00 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 |
| 225.00 | 17-0 | 17-1 | 17-1 | 17-1 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 |
| 250.00 | 21-0 | 21-1 | 21-2 | 21-2 | 21-2 | 21-3 | 21-3 | 21-3 | 21-4 | 21-4 |
| 275.00 | 25-6 | 25-7 | 25-7 | 25-8 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 | 25-10 |
| 300.00 | 30-5 | 30-6 | 30-7 | 30-7 | 30-8 | 30-8 | 30-9 | 30-9 | 30-10 | 30-10 |
| 325.00 | 35-9 | 35-10 | 35-11 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 | 36-4 |
| 350.00 | 41-7 | 41-8 | 41-9 | 41-10 | 41-11 | 42-0 | 42-0 | 42-1 | 42-2 | 42-3 |
| 375.00 | 47-11 | 48-0 | 48-1 | 48-2 | 48-3 | 48-4 | 48-5 | 48-5 | 48-6 | 48-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.94

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 |
| 225.00 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-7 |
| 250.00 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 | 21-8 | 21-9 | 21-9 | 21-9 |
| 275.00 | 26-2 | 26-2 | 26-3 | 26-3 | 26-3 | 26-4 | 26-4 | 26-4 | 26-4 | 26-4 |
| 300.00 | 31-2 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-5 | 31-5 | 31-5 | 31-5 |
| 325.00 | 36-8 | 36-9 | 36-9 | 36-10 | 36-10 | 36-11 | 36-11 | 36-11 | 37-0 | 37-0 |
| 350.00 | 42-8 | 42-9 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 43-0 | 43-0 | 43-0 |
| 375.00 | 49-2 | 49-2 | 49-3 | 49-4 | 49-4 | 49-5 | 49-5 | 49-6 | 49-6 | 49-7 |
| 400.00 | 56-1 | 56-2 | 56-2 | 56-3 | 56-4 | 56-5 | 56-5 | 56-6 | 56-6 | 56-7 |
| 425.00 | 63-6 | 63-7 | 63-8 | 63-9 | 63-9 | 63-10 | 63-11 | 63-11 | 64-0 | 64-1 |
| 450.00 | 71-5 | 71-6 | 71-7 | 71-8 | 71-9 | 71-10 | 71-11 | 71-11 | 72-0 | 72-1 |
| 475.00 | 79-10 | 80-0 | 80-1 | 80-2 | 80-3 | 80-4 | 80-5 | 80-5 | 80-6 | 80-7 |
| 500.00 | 88-10 | 88-11 | 89-1 | 89-2 | 89-3 | 89-4 | 89-5 | 89-6 | 89-7 | 89-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 |
| 225.00 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-7 |
| 250.00 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-9 | 21-9 | 21-9 |
| 275.00 | 26-2 | 26-2 | 26-3 | 26-3 | 26-3 | 26-4 | 26-4 | 26-4 | 26-4 | 26-4 |
| 300.00 | 31-3 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-5 | 31-5 | 31-5 | 31-5 |
| 325.00 | 36-9 | 36-9 | 36-10 | 36-10 | 36-11 | 36-11 | 36-11 | 36-11 | 37-0 | 37-0 |
| 350.00 | 42-9 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 42-11 | 43-0 | 43-0 | 43-0 |
| 375.00 | 49-2 | 49-3 | 49-3 | 49-4 | 49-4 | 49-5 | 49-5 | 49-6 | 49-6 | 49-7 |
| 400.00 | 56-1 | 56-2 | 56-3 | 56-4 | 56-4 | 56-5 | 56-5 | 56-6 | 56-6 | 56-7 |
| 425.00 | 63-7 | 63-7 | 63-8 | 63-9 | 63-10 | 63-10 | 63-11 | 63-11 | 64-0 | 64-1 |
| 450.00 | 71-6 | 71-7 | 71-8 | 71-9 | 71-9 | 71-10 | 71-11 | 71-11 | 72-0 | 72-1 |
| 475.00 | 79-11 | 80-0 | 80-1 | 80-2 | 80-3 | 80-4 | 80-5 | 80-5 | 80-6 | 80-7 |
| 500.00 | 88-11 | 89-0 | 89-1 | 89-2 | 89-3 | 89-4 | 89-5 | 89-6 | 89-7 | 89-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS



OH811.95

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 |
| 275.00 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 |
| 300.00 | 32-5 | 32-5 | 32-5 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 |
| 325.00 | 38-2 | 38-2 | 38-2 | 38-3 | 38-3 | 38-3 | 38-3 | 38-4 | 38-4 | 38-4 |
| 350.00 | 44-4 | 44-5 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 | 44-7 |
| 375.00 | 51-1 | 51-1 | 51-2 | 51-2 | 51-3 | 51-3 | 51-3 | 51-3 | 51-4 | 51-4 |
| 400.00 | 58-4 | 58-4 | 58-5 | 58-5 | 58-5 | 58-6 | 58-6 | 58-7 | 58-7 | 58-7 |
| 425.00 | 66-1 | 66-1 | 66-2 | 66-2 | 66-3 | 66-3 | 66-4 | 66-4 | 66-4 | 66-5 |
| 450.00 | 74-4 | 74-4 | 74-5 | 74-6 | 74-6 | 74-7 | 74-7 | 74-8 | 74-8 | 74-8 |
| 475.00 | 83-1 | 83-2 | 83-3 | 83-4 | 83-4 | 83-5 | 83-5 | 83-6 | 83-6 | 83-7 |
| 500.00 | 92-6 | 92-7 | 92-7 | 92-8 | 92-9 | 92-9 | 92-10 | 92-10 | 92-11 | 92-11 |
| 525.00 | 102-5 | 102-6 | 102-6 | 102-7 | 102-8 | 102-9 | 102-9 | 102-10 | 102-11 | 102-11 |
| 550.00 | 112-10 | 113-0 | 113-0 | 113-1 | 113-2 | 113-3 | 113-4 | 113-4 | 113-5 | 113-6 |
| 575.00 | 123-11 | 124-1 | 124-2 | 124-3 | 124-4 | 124-4 | 124-5 | 124-6 | 124-7 | 124-7 |
| 600.00 | 135-7 | 135-9 | 135-10 | 135-11 | 136-0 | 136-1 | 136-2 | 136-3 | 136-3 | 136-4 |
| 625.00 | 147-11 | 148-0 | 148-2 | 148-3 | 148-4 | 148-5 | 148-6 | 148-7 | 148-8 | 148-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 |
| 275.00 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 |
| 300.00 | 32-5 | 32-5 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 |
| 325.00 | 38-2 | 38-2 | 38-2 | 38-3 | 38-3 | 38-3 | 38-3 | 38-4 | 38-4 | 38-4 |
| 350.00 | 44-5 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 | 44-7 |
| 375.00 | 51-1 | 51-2 | 51-2 | 51-2 | 51-3 | 51-3 | 51-3 | 51-3 | 51-4 | 51-4 |
| 400.00 | 58-4 | 58-4 | 58-5 | 58-5 | 58-6 | 58-6 | 58-6 | 58-7 | 58-7 | 58-7 |
| 425.00 | 66-1 | 66-1 | 66-2 | 66-2 | 66-3 | 66-3 | 66-4 | 66-4 | 66-4 | 66-5 |
| 450.00 | 74-4 | 74-5 | 74-5 | 74-6 | 74-6 | 74-7 | 74-7 | 74-8 | 74-8 | 74-8 |
| 475.00 | 83-2 | 83-3 | 83-3 | 83-4 | 83-4 | 83-5 | 83-5 | 83-6 | 83-6 | 83-7 |
| 500.00 | 92-6 | 92-7 | 92-8 | 92-8 | 92-9 | 92-9 | 92-10 | 92-10 | 92-11 | 92-11 |
| 525.00 | 102-5 | 102-6 | 102-7 | 102-8 | 102-8 | 102-9 | 102-9 | 102-10 | 102-11 | 102-11 |
| 550.00 | 112-11 | 113-0 | 113-1 | 113-2 | 113-3 | 113-3 | 113-4 | 113-4 | 113-5 | 113-6 |
| 575.00 | 124-0 | 124-1 | 124-2 | 124-3 | 124-4 | 124-5 | 124-5 | 124-6 | 124-7 | 124-7 |
| 600.00 | 135-8 | 135-9 | 135-11 | 136-0 | 136-0 | 136-1 | 136-2 | 136-3 | 136-3 | 136-4 |
| 625.00 | 148-0 | 148-1 | 148-2 | 148-3 | 148-4 | 148-5 | 148-6 | 148-7 | 148-8 | 148-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 2.45 | 2000 | 2.45 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 2.09 | 312 | 1.98 | 329 |
| 30 | 0 | 0 | 0 | 0.52 | 2.35 | 277 | 2.29 | 285 |
| 40 | 0 | 0 | 0 | 0.52 | 2.44 | 267 | 2.37 | 275 |
| 50 | 0 | 0 | 0 | 0.52 | 2.52 | 259 | 2.45 | 266 |
| 60 | 0 | 0 | 0 | 0.52 | 2.57 | 254 | 2.52 | 258 |
| 70 | 0 | 0 | 0 | 0.52 | 2.62 | 249 | 2.6 | 251 |
| 80 | 0 | 0 | 0 | 0.52 | 2.67 | 244 | 2.67 | 244 |
| 90 | 0 | 0 | 0 | 0.52 | 2.72 | 240 | 2.72 | 240 |
| 100 | 0 | 0 | 0 | 0.52 | 2.77 | 236 | 2.77 | 236 |
| 110 | 0 | 0 | 0 | 0.52 | 2.81 | 232 | 2.81 | 232 |
| 120 | 0 | 0 | 0 | 0.52 | 2.86 | 228 | 2.86 | 228 |
| 130 | 0 | 0 | 0 | 0.52 | 2.9 | 225 | 2.9 | 225 |
| 167 | 0 | 0 | 0 | 0.52 | 3.07 | 213 | 3.07 | 213 |
| 212 | 0 | 0 | 0 | 0.52 | 3.25 | 201 | 3.25 | 201 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 9.85 | 2000 | 9.85 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 9.51 | 276 | 9.4 | 279 |
| 30 | 0 | 0 | 0 | 0.52 | 9.76 | 269 | 9.69 | 271 |
| 40 | 0 | 0 | 0 | 0.52 | 9.84 | 267 | 9.78 | 269 |
| 50 | 0 | 0 | 0 | 0.52 | 9.93 | 265 | 9.86 | 266 |
| 60 | 0 | 0 | 0 | 0.52 | 9.98 | 263 | 9.93 | 264 |
| 70 | 0 | 0 | 0 | 0.52 | 10.04 | 262 | 10.01 | 262 |
| 80 | 0 | 0 | 0 | 0.52 | 10.09 | 260 | 10.09 | 260 |
| 90 | 0 | 0 | 0 | 0.52 | 10.15 | 259 | 10.15 | 259 |
| 100 | 0 | 0 | 0 | 0.52 | 10.2 | 258 | 10.2 | 258 |
| 110 | 0 | 0 | 0 | 0.52 | 10.25 | 256 | 10.25 | 256 |
| 120 | 0 | 0 | 0 | 0.52 | 10.3 | 255 | 10.3 | 255 |
| 130 | 0 | 0 | 0 | 0.52 | 10.36 | 254 | 10.36 | 254 |
| 167 | 0 | 0 | 0 | 0.52 | 10.55 | 249 | 10.55 | 249 |
| 212 | 0 | 0 | 0 | 0.52 | 10.78 | 244 | 10.78 | 244 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 22.45 | 2000 | 22.45 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 22.11 | 270 | 22 | 272 |
| 30 | 0 | 0 | 0 | 0.52 | 22.36 | 267 | 22.29 | 268 |
| 40 | 0 | 0 | 0 | 0.52 | 22.44 | 267 | 22.37 | 267 |
| 50 | 0 | 0 | 0 | 0.52 | 22.52 | 266 | 22.45 | 266 |
| 60 | 0 | 0 | 0 | 0.52 | 22.58 | 265 | 22.53 | 266 |
| 70 | 0 | 0 | 0 | 0.52 | 22.64 | 264 | 22.61 | 265 |
| 80 | 0 | 0 | 0 | 0.52 | 22.69 | 264 | 22.69 | 264 |
| 90 | 0 | 0 | 0 | 0.52 | 22.75 | 263 | 22.75 | 263 |
| 100 | 0 | 0 | 0 | 0.52 | 22.8 | 263 | 22.8 | 263 |
| 110 | 0 | 0 | 0 | 0.52 | 22.86 | 262 | 22.86 | 262 |
| 120 | 0 | 0 | 0 | 0.52 | 22.91 | 261 | 22.91 | 261 |
| 130 | 0 | 0 | 0 | 0.52 | 22.96 | 261 | 22.96 | 261 |
| 167 | 0 | 0 | 0 | 0.52 | 23.16 | 259 | 23.16 | 259 |
| 212 | 0 | 0 | 0 | 0.52 | 23.4 | 256 | 23.4 | 256 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 40.65 | 2000 | 40.65 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 40.31 | 268 | 40.21 | 269 |
| 30 | 0 | 0 | 0 | 0.52 | 40.56 | 267 | 40.5 | 267 |
| 40 | 0 | 0 | 0 | 0.52 | 40.64 | 266 | 40.58 | 267 |
| 50 | 0 | 0 | 0 | 0.52 | 40.73 | 266 | 40.66 | 266 |
| 60 | 0 | 0 | 0 | 0.52 | 40.78 | 266 | 40.74 | 266 |
| 70 | 0 | 0 | 0 | 0.52 | 40.84 | 265 | 40.81 | 265 |
| 80 | 0 | 0 | 0 | 0.52 | 40.89 | 265 | 40.89 | 265 |
| 90 | 0 | 0 | 0 | 0.52 | 40.95 | 265 | 40.95 | 265 |
| 100 | 0 | 0 | 0 | 0.52 | 41.01 | 264 | 41.01 | 264 |
| 110 | 0 | 0 | 0 | 0.52 | 41.06 | 264 | 41.06 | 264 |
| 120 | 0 | 0 | 0 | 0.52 | 41.12 | 264 | 41.12 | 264 |
| 130 | 0 | 0 | 0 | 0.52 | 41.17 | 263 | 41.17 | 263 |
| 167 | 0 | 0 | 0 | 0.52 | 41.37 | 262 | 41.37 | 262 |
| 212 | 0 | 0 | 0 | 0.52 | 41.61 | 261 | 41.61 | 261 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 65.16 | 2000 | 65.16 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 64.82 | 268 | 64.71 | 268 |
| 30 | 0 | 0 | 0 | 0.52 | 65.07 | 267 | 65 | 267 |
| 40 | 0 | 0 | 0 | 0.52 | 65.15 | 266 | 65.08 | 267 |
| 50 | 0 | 0 | 0 | 0.52 | 65.23 | 266 | 65.16 | 266 |
| 60 | 0 | 0 | 0 | 0.52 | 65.29 | 266 | 65.24 | 266 |
| 70 | 0 | 0 | 0 | 0.52 | 65.34 | 266 | 65.32 | 266 |
| 80 | 0 | 0 | 0 | 0.52 | 65.4 | 266 | 65.4 | 266 |
| 90 | 0 | 0 | 0 | 0.52 | 65.46 | 265 | 65.46 | 265 |
| 100 | 0 | 0 | 0 | 0.52 | 65.51 | 265 | 65.51 | 265 |
| 110 | 0 | 0 | 0 | 0.52 | 65.57 | 265 | 65.57 | 265 |
| 120 | 0 | 0 | 0 | 0.52 | 65.62 | 265 | 65.62 | 265 |
| 130 | 0 | 0 | 0 | 0.52 | 65.67 | 265 | 65.67 | 265 |
| 167 | 0 | 0 | 0 | 0.52 | 65.88 | 264 | 65.88 | 264 |
| 212 | 0 | 0 | 0 | 0.52 | 66.12 | 263 | 66.12 | 263 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 |
| 100.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 |
| 125.00 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 150.00 | 4-11 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 |
| 175.00 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 |
| 200.00 | 8-10 | 9-2 | 9-6 | 9-10 | 10-1 | 10-5 | 10-8 | 10-11 | 11-1 | 11-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 |
| 100.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 |
| 125.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 150.00 | 5-1 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 |
| 175.00 | 6-11 | 7-3 | 7-6 | 7-9 | 7-11 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 |
| 200.00 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS



OH811.100

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 |
| 125.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 |
| 150.00 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 |
| 175.00 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 |
| 200.00 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 |
| 225.00 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 |
| 250.00 | 15-0 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 |
| 125.00 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 |
| 150.00 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 |
| 175.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 |
| 200.00 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 |
| 225.00 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 13-0 |
| 250.00 | 15-2 | 15-3 | 15-5 | 15-6 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS



OH811.101

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-6 | 5-7 | 5-7 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-8 |
| 175.00 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 |
| 200.00 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 |
| 225.00 | 12-5 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 |
| 250.00 | 15-5 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 |
| 275.00 | 18-8 | 18-9 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 |
| 300.00 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 | 22-10 |
| 325.00 | 26-1 | 26-2 | 26-3 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-10 |
| 350.00 | 30-4 | 30-5 | 30-6 | 30-8 | 30-9 | 30-10 | 31-0 | 31-1 | 31-1 | 31-2 |
| 375.00 | 34-10 | 35-0 | 35-1 | 35-3 | 35-4 | 35-6 | 35-7 | 35-8 | 35-9 | 35-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-6 | 5-7 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-8 | 5-8 |
| 175.00 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 |
| 200.00 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 |
| 225.00 | 12-6 | 12-6 | 12-7 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 |
| 250.00 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 |
| 275.00 | 18-8 | 18-9 | 18-10 | 18-11 | 18-11 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 |
| 300.00 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-8 | 22-9 | 22-10 | 22-10 |
| 325.00 | 26-2 | 26-3 | 26-4 | 26-6 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-10 |
| 350.00 | 30-5 | 30-6 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 |
| 375.00 | 34-11 | 35-1 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 | 35-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS



OH811.102

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 |
| 225.00 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-10 | 12-10 |
| 250.00 | 15-8 | 15-8 | 15-9 | 15-9 | 15-9 | 15-10 | 15-10 | 15-10 | 15-11 | 15-11 |
| 275.00 | 19-0 | 19-0 | 19-1 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 | 19-3 |
| 300.00 | 22-7 | 22-8 | 22-8 | 22-9 | 22-9 | 22-10 | 22-10 | 22-11 | 22-11 | 23-0 |
| 325.00 | 26-7 | 26-7 | 26-8 | 26-9 | 26-9 | 26-10 | 26-10 | 26-11 | 26-11 | 27-0 |
| 350.00 | 30-10 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-3 | 31-3 | 31-4 | 31-4 |
| 375.00 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 | 35-10 | 35-11 | 35-11 | 36-0 | 36-0 |
| 400.00 | 40-5 | 40-6 | 40-7 | 40-8 | 40-9 | 40-10 | 40-11 | 40-11 | 41-0 | 41-1 |
| 425.00 | 45-8 | 45-10 | 45-11 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-4 | 46-5 |
| 450.00 | 51-4 | 51-5 | 51-6 | 51-8 | 51-9 | 51-10 | 51-11 | 52-0 | 52-1 | 52-2 |
| 475.00 | 57-3 | 57-5 | 57-6 | 57-8 | 57-9 | 57-10 | 58-0 | 58-1 | 58-2 | 58-3 |
| 500.00 | 63-7 | 63-9 | 63-11 | 64-0 | 64-2 | 64-3 | 64-5 | 64-6 | 64-7 | 64-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 |
| 225.00 | 12-8 | 12-9 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-10 | 12-10 |
| 250.00 | 15-8 | 15-9 | 15-9 | 15-9 | 15-10 | 15-10 | 15-10 | 15-10 | 15-11 | 15-11 |
| 275.00 | 19-0 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-2 | 19-3 | 19-3 | 19-3 |
| 300.00 | 22-8 | 22-8 | 22-9 | 22-9 | 22-10 | 22-10 | 22-10 | 22-11 | 22-11 | 23-0 |
| 325.00 | 26-7 | 26-8 | 26-9 | 26-9 | 26-10 | 26-10 | 26-10 | 26-11 | 26-11 | 27-0 |
| 350.00 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-2 | 31-3 | 31-3 | 31-4 | 31-4 |
| 375.00 | 35-6 | 35-7 | 35-8 | 35-9 | 35-9 | 35-10 | 35-11 | 35-11 | 36-0 | 36-0 |
| 400.00 | 40-6 | 40-7 | 40-8 | 40-9 | 40-9 | 40-10 | 40-11 | 40-11 | 41-0 | 41-1 |
| 425.00 | 45-9 | 45-10 | 46-0 | 46-1 | 46-1 | 46-2 | 46-3 | 46-4 | 46-4 | 46-5 |
| 450.00 | 51-5 | 51-6 | 51-7 | 51-9 | 51-10 | 51-10 | 51-11 | 52-0 | 52-1 | 52-2 |
| 475.00 | 57-5 | 57-6 | 57-8 | 57-9 | 57-10 | 57-11 | 58-0 | 58-1 | 58-2 | 58-3 |
| 500.00 | 63-9 | 63-10 | 64-0 | 64-1 | 64-3 | 64-4 | 64-5 | 64-6 | 64-7 | 64-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS



OH811.103

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-0 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-1 | 16-1 | 16-1 |
| 275.00 | 19-4 | 19-4 | 19-5 | 19-5 | 19-5 | 19-6 | 19-6 | 19-6 | 19-6 | 19-6 |
| 300.00 | 23-1 | 23-1 | 23-1 | 23-2 | 23-2 | 23-2 | 23-3 | 23-3 | 23-3 | 23-3 |
| 325.00 | 27-1 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 |
| 350.00 | 31-6 | 31-6 | 31-6 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 |
| 375.00 | 36-2 | 36-3 | 36-3 | 36-4 | 36-4 | 36-5 | 36-5 | 36-6 | 36-6 | 36-6 |
| 400.00 | 41-3 | 41-3 | 41-4 | 41-5 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 | 41-8 |
| 425.00 | 46-7 | 46-8 | 46-9 | 46-10 | 46-10 | 46-11 | 47-0 | 47-0 | 47-1 | 47-1 |
| 450.00 | 52-4 | 52-5 | 52-6 | 52-7 | 52-8 | 52-8 | 52-9 | 52-10 | 52-10 | 52-11 |
| 475.00 | 58-6 | 58-6 | 58-7 | 58-8 | 58-9 | 58-10 | 58-11 | 58-11 | 59-0 | 59-1 |
| 500.00 | 64-11 | 65-0 | 65-1 | 65-2 | 65-3 | 65-4 | 65-5 | 65-5 | 65-6 | 65-7 |
| 525.00 | 71-9 | 71-10 | 71-11 | 72-0 | 72-1 | 72-2 | 72-3 | 72-4 | 72-5 | 72-5 |
| 550.00 | 78-11 | 79-0 | 79-1 | 79-2 | 79-4 | 79-5 | 79-6 | 79-7 | 79-8 | 79-8 |
| 575.00 | 86-5 | 86-7 | 86-8 | 86-9 | 86-11 | 87-0 | 87-1 | 87-2 | 87-3 | 87-4 |
| 600.00 | 94-4 | 94-6 | 94-7 | 94-9 | 94-10 | 95-0 | 95-1 | 95-2 | 95-3 | 95-4 |
| 625.00 | 102-8 | 102-10 | 102-11 | 103-1 | 103-2 | 103-4 | 103-5 | 103-6 | 103-7 | 103-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-1 | 16-1 | 16-1 | 16-1 |
| 275.00 | 19-4 | 19-5 | 19-5 | 19-5 | 19-5 | 19-6 | 19-6 | 19-6 | 19-6 | 19-6 |
| 300.00 | 23-1 | 23-1 | 23-2 | 23-2 | 23-2 | 23-2 | 23-3 | 23-3 | 23-3 | 23-3 |
| 325.00 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 |
| 350.00 | 31-6 | 31-6 | 31-7 | 31-7 | 31-8 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 |
| 375.00 | 36-3 | 36-3 | 36-4 | 36-4 | 36-5 | 36-5 | 36-5 | 36-6 | 36-6 | 36-6 |
| 400.00 | 41-3 | 41-4 | 41-4 | 41-5 | 41-6 | 41-6 | 41-6 | 41-7 | 41-7 | 41-8 |
| 425.00 | 46-8 | 46-9 | 46-9 | 46-10 | 46-11 | 46-11 | 47-0 | 47-0 | 47-1 | 47-1 |
| 450.00 | 52-5 | 52-6 | 52-7 | 52-7 | 52-8 | 52-9 | 52-9 | 52-10 | 52-10 | 52-11 |
| 475.00 | 58-6 | 58-7 | 58-8 | 58-9 | 58-10 | 58-10 | 58-11 | 58-11 | 59-0 | 59-1 |
| 500.00 | 65-0 | 65-1 | 65-2 | 65-3 | 65-3 | 65-4 | 65-5 | 65-5 | 65-6 | 65-7 |
| 525.00 | 71-10 | 71-11 | 72-0 | 72-1 | 72-2 | 72-2 | 72-3 | 72-4 | 72-5 | 72-5 |
| 550.00 | 79-0 | 79-1 | 79-2 | 79-3 | 79-4 | 79-5 | 79-6 | 79-7 | 79-8 | 79-8 |
| 575.00 | 86-6 | 86-8 | 86-9 | 86-10 | 86-11 | 87-0 | 87-1 | 87-2 | 87-3 | 87-4 |
| 600.00 | 94-6 | 94-7 | 94-9 | 94-10 | 94-11 | 95-0 | 95-1 | 95-2 | 95-3 | 95-4 |
| 625.00 | 102-9 | 102-11 | 103-0 | 103-2 | 103-3 | 103-4 | 103-5 | 103-6 | 103-7 | 103-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 1.95 | 2500 | 1.95 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 1.37 | 474 | 1.24 | 524 |
| 30 | 0 | 0 | 0 | 0.52 | 1.73 | 376 | 1.61 | 403 |
| 40 | 0 | 0 | 0 | 0.52 | 1.84 | 354 | 1.72 | 378 |
| 50 | 0 | 0 | 0 | 0.52 | 1.94 | 335 | 1.83 | 356 |
| 60 | 0 | 0 | 0 | 0.52 | 2.01 | 325 | 1.93 | 338 |
| 70 | 0 | 0 | 0 | 0.52 | 2.07 | 315 | 2.02 | 322 |
| 80 | 0 | 0 | 0 | 0.52 | 2.12 | 306 | 2.11 | 308 |
| 90 | 0 | 0 | 0 | 0.52 | 2.19 | 298 | 2.19 | 298 |
| 100 | 0 | 0 | 0 | 0.52 | 2.24 | 290 | 2.24 | 290 |
| 110 | 0 | 0 | 0 | 0.52 | 2.3 | 283 | 2.3 | 283 |
| 120 | 0 | 0 | 0 | 0.52 | 2.35 | 277 | 2.35 | 277 |
| 130 | 0 | 0 | 0 | 0.52 | 2.41 | 271 | 2.41 | 271 |
| 167 | 0 | 0 | 0 | 0.52 | 2.6 | 251 | 2.6 | 251 |
| 212 | 0 | 0 | 0 | 0.52 | 2.81 | 232 | 2.81 | 232 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 7.86 | 2500 | 7.86 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 7.31 | 357 | 7.16 | 365 |
| 30 | 0 | 0 | 0 | 0.52 | 7.63 | 343 | 7.52 | 348 |
| 40 | 0 | 0 | 0 | 0.52 | 7.74 | 338 | 7.62 | 343 |
| 50 | 0 | 0 | 0 | 0.52 | 7.84 | 334 | 7.72 | 339 |
| 60 | 0 | 0 | 0 | 0.52 | 7.91 | 331 | 7.82 | 334 |
| 70 | 0 | 0 | 0 | 0.52 | 7.98 | 328 | 7.92 | 330 |
| 80 | 0 | 0 | 0 | 0.52 | 8.04 | 325 | 8.02 | 326 |
| 90 | 0 | 0 | 0 | 0.52 | 8.11 | 323 | 8.11 | 323 |
| 100 | 0 | 0 | 0 | 0.52 | 8.18 | 320 | 8.18 | 320 |
| 110 | 0 | 0 | 0 | 0.52 | 8.24 | 318 | 8.24 | 318 |
| 120 | 0 | 0 | 0 | 0.52 | 8.31 | 315 | 8.31 | 315 |
| 130 | 0 | 0 | 0 | 0.52 | 8.37 | 313 | 8.37 | 313 |
| 167 | 0 | 0 | 0 | 0.52 | 8.6 | 304 | 8.6 | 304 |
| 212 | 0 | 0 | 0 | 0.52 | 8.88 | 295 | 8.88 | 295 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 17.81 | 2500 | 17.81 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 17.28 | 343 | 17.13 | 346 |
| 30 | 0 | 0 | 0 | 0.52 | 17.59 | 337 | 17.48 | 339 |
| 40 | 0 | 0 | 0 | 0.52 | 17.7 | 335 | 17.58 | 337 |
| 50 | 0 | 0 | 0 | 0.52 | 17.8 | 333 | 17.68 | 335 |
| 60 | 0 | 0 | 0 | 0.52 | 17.87 | 332 | 17.78 | 334 |
| 70 | 0 | 0 | 0 | 0.52 | 17.94 | 331 | 17.88 | 332 |
| 80 | 0 | 0 | 0 | 0.52 | 18.01 | 330 | 17.98 | 330 |
| 90 | 0 | 0 | 0 | 0.52 | 18.08 | 328 | 18.08 | 328 |
| 100 | 0 | 0 | 0 | 0.52 | 18.14 | 327 | 18.14 | 327 |
| 110 | 0 | 0 | 0 | 0.52 | 18.21 | 326 | 18.21 | 326 |
| 120 | 0 | 0 | 0 | 0.52 | 18.28 | 325 | 18.28 | 325 |
| 130 | 0 | 0 | 0 | 0.52 | 18.35 | 324 | 18.35 | 324 |
| 167 | 0 | 0 | 0 | 0.52 | 18.59 | 320 | 18.59 | 320 |
| 212 | 0 | 0 | 0 | 0.52 | 18.88 | 315 | 18.88 | 315 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 32.03 | 2500 | 32.03 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 31.5 | 338 | 31.35 | 340 |
| 30 | 0 | 0 | 0 | 0.52 | 31.81 | 335 | 31.7 | 336 |
| 40 | 0 | 0 | 0 | 0.52 | 31.91 | 334 | 31.8 | 335 |
| 50 | 0 | 0 | 0 | 0.52 | 32.02 | 333 | 31.9 | 334 |
| 60 | 0 | 0 | 0 | 0.52 | 32.09 | 332 | 32 | 333 |
| 70 | 0 | 0 | 0 | 0.52 | 32.16 | 332 | 32.1 | 332 |
| 80 | 0 | 0 | 0 | 0.52 | 32.22 | 331 | 32.2 | 331 |
| 90 | 0 | 0 | 0 | 0.52 | 32.3 | 330 | 32.3 | 330 |
| 100 | 0 | 0 | 0 | 0.52 | 32.36 | 330 | 32.36 | 330 |
| 110 | 0 | 0 | 0 | 0.52 | 32.43 | 329 | 32.43 | 329 |
| 120 | 0 | 0 | 0 | 0.52 | 32.5 | 328 | 32.5 | 328 |
| 130 | 0 | 0 | 0 | 0.52 | 32.57 | 328 | 32.57 | 328 |
| 167 | 0 | 0 | 0 | 0.52 | 32.82 | 325 | 32.82 | 325 |
| 212 | 0 | 0 | 0 | 0.52 | 33.12 | 323 | 33.12 | 323 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 50.82 | 2500 | 50.82 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 50.29 | 336 | 50.14 | 337 |
| 30 | 0 | 0 | 0 | 0.52 | 50.6 | 334 | 50.49 | 335 |
| 40 | 0 | 0 | 0 | 0.52 | 50.7 | 334 | 50.59 | 334 |
| 50 | 0 | 0 | 0 | 0.52 | 50.8 | 333 | 50.69 | 334 |
| 60 | 0 | 0 | 0 | 0.52 | 50.87 | 333 | 50.79 | 333 |
| 70 | 0 | 0 | 0 | 0.52 | 50.94 | 332 | 50.89 | 333 |
| 80 | 0 | 0 | 0 | 0.52 | 51.01 | 332 | 50.99 | 332 |
| 90 | 0 | 0 | 0 | 0.52 | 51.08 | 331 | 51.08 | 331 |
| 100 | 0 | 0 | 0 | 0.52 | 51.15 | 331 | 51.15 | 331 |
| 110 | 0 | 0 | 0 | 0.52 | 51.22 | 331 | 51.22 | 331 |
| 120 | 0 | 0 | 0 | 0.52 | 51.29 | 330 | 51.29 | 330 |
| 130 | 0 | 0 | 0 | 0.52 | 51.36 | 330 | 51.36 | 330 |
| 167 | 0 | 0 | 0 | 0.52 | 51.61 | 328 | 51.61 | 328 |
| 212 | 0 | 0 | 0 | 0.52 | 51.91 | 327 | 51.91 | 327 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 |
| 100.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 125.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 |
| 150.00 | 3-4 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 |
| 175.00 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-8 | 6-11 | 7-1 |
| 200.00 | 6-0 | 6-5 | 6-11 | 7-4 | 7-9 | 8-1 | 8-6 | 8-9 | 9-0 | 9-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 |
| 100.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 |
| 125.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 150.00 | 3-8 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 |
| 175.00 | 5-0 | 5-4 | 5-8 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 |
| 200.00 | 6-6 | 6-11 | 7-4 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-10 | 1-11 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 |
| 125.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-3 |
| 150.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 |
| 175.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 |
| 200.00 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 225.00 | 9-5 | 9-6 | 9-8 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 | 10-5 |
| 250.00 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-8 | 12-10 | 12-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-11 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 |
| 125.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-3 |
| 150.00 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 |
| 175.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 |
| 200.00 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 |
| 225.00 | 9-6 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 |
| 250.00 | 11-9 | 11-11 | 12-1 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-10 | 12-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS



OH811.109

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-6 |
| 175.00 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 |
| 200.00 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 |
| 225.00 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 |
| 250.00 | 12-1 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 |
| 275.00 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-3 |
| 300.00 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 |
| 325.00 | 20-5 | 20-6 | 20-8 | 20-9 | 20-11 | 21-0 | 21-1 | 21-3 | 21-4 | 21-5 |
| 350.00 | 23-8 | 23-10 | 24-0 | 24-1 | 24-3 | 24-5 | 24-6 | 24-8 | 24-9 | 24-10 |
| 375.00 | 27-3 | 27-5 | 27-7 | 27-8 | 27-10 | 28-0 | 28-2 | 28-4 | 28-5 | 28-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-4 | 4-5 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-6 | 4-6 |
| 175.00 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 |
| 200.00 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 |
| 225.00 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 |
| 250.00 | 12-2 | 12-2 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 |
| 275.00 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 | 15-3 | 15-3 |
| 300.00 | 17-6 | 17-7 | 17-8 | 17-10 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 |
| 325.00 | 20-6 | 20-8 | 20-9 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 |
| 350.00 | 23-10 | 24-0 | 24-2 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 | 24-9 | 24-10 |
| 375.00 | 27-5 | 27-7 | 27-9 | 27-11 | 28-0 | 28-1 | 28-3 | 28-4 | 28-5 | 28-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS



OH811.110

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-10 | 7-11 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 |
| 225.00 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-2 |
| 250.00 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 |
| 275.00 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 |
| 300.00 | 17-9 | 17-9 | 17-10 | 17-11 | 17-11 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 |
| 325.00 | 20-10 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-2 | 21-3 | 21-4 | 21-4 |
| 350.00 | 24-2 | 24-3 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-9 |
| 375.00 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 | 28-5 | 28-6 |
| 400.00 | 31-7 | 31-8 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 | 32-4 | 32-4 | 32-5 |
| 425.00 | 35-9 | 35-10 | 35-11 | 36-1 | 36-2 | 36-3 | 36-5 | 36-6 | 36-7 | 36-8 |
| 450.00 | 40-1 | 40-2 | 40-4 | 40-6 | 40-7 | 40-9 | 40-10 | 41-0 | 41-1 | 41-2 |
| 475.00 | 44-9 | 44-10 | 45-0 | 45-2 | 45-3 | 45-5 | 45-7 | 45-8 | 45-10 | 45-11 |
| 500.00 | 49-7 | 49-9 | 49-11 | 50-1 | 50-3 | 50-5 | 50-7 | 50-8 | 50-10 | 50-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-11 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 |
| 225.00 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-2 |
| 250.00 | 12-4 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 |
| 275.00 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 | 15-3 | 15-3 |
| 300.00 | 17-9 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 |
| 325.00 | 20-10 | 20-11 | 21-0 | 21-1 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-4 |
| 350.00 | 24-3 | 24-4 | 24-5 | 24-6 | 24-6 | 24-7 | 24-7 | 24-8 | 24-9 | 24-9 |
| 375.00 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 | 28-4 | 28-5 | 28-6 |
| 400.00 | 31-8 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-4 | 32-5 |
| 425.00 | 35-10 | 35-11 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 |
| 450.00 | 40-3 | 40-4 | 40-6 | 40-7 | 40-8 | 40-9 | 40-11 | 41-0 | 41-1 | 41-2 |
| 475.00 | 44-10 | 45-0 | 45-2 | 45-4 | 45-5 | 45-6 | 45-7 | 45-8 | 45-10 | 45-11 |
| 500.00 | 49-9 | 49-11 | 50-1 | 50-3 | 50-4 | 50-6 | 50-7 | 50-8 | 50-10 | 50-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS



OH811.111

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 |
| 275.00 | 15-1 | 15-2 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 |
| 300.00 | 18-0 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 |
| 325.00 | 21-2 | 21-2 | 21-3 | 21-3 | 21-4 | 21-4 | 21-4 | 21-5 | 21-5 | 21-6 |
| 350.00 | 24-6 | 24-7 | 24-7 | 24-8 | 24-9 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 |
| 375.00 | 28-2 | 28-3 | 28-3 | 28-4 | 28-5 | 28-5 | 28-6 | 28-7 | 28-7 | 28-8 |
| 400.00 | 32-1 | 32-2 | 32-3 | 32-3 | 32-4 | 32-5 | 32-6 | 32-6 | 32-7 | 32-7 |
| 425.00 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 | 36-8 | 36-9 | 36-10 | 36-10 |
| 450.00 | 40-9 | 40-9 | 40-10 | 40-11 | 41-0 | 41-1 | 41-2 | 41-3 | 41-4 | 41-5 |
| 475.00 | 45-5 | 45-6 | 45-7 | 45-8 | 45-9 | 45-10 | 45-11 | 46-1 | 46-1 | 46-2 |
| 500.00 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 | 50-11 | 51-0 | 51-1 | 51-2 | 51-3 |
| 525.00 | 55-8 | 55-9 | 55-10 | 56-0 | 56-1 | 56-2 | 56-3 | 56-5 | 56-6 | 56-7 |
| 550.00 | 61-2 | 61-3 | 61-5 | 61-6 | 61-7 | 61-9 | 61-10 | 62-0 | 62-1 | 62-2 |
| 575.00 | 66-11 | 67-1 | 67-2 | 67-4 | 67-5 | 67-7 | 67-9 | 67-10 | 67-11 | 68-0 |
| 600.00 | 73-0 | 73-1 | 73-3 | 73-5 | 73-7 | 73-9 | 73-10 | 74-0 | 74-1 | 74-2 |
| 625.00 | 79-4 | 79-6 | 79-8 | 79-10 | 79-11 | 80-1 | 80-3 | 80-5 | 80-6 | 80-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 |
| 275.00 | 15-2 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 |
| 300.00 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 |
| 325.00 | 21-2 | 21-3 | 21-3 | 21-4 | 21-4 | 21-4 | 21-5 | 21-5 | 21-5 | 21-6 |
| 350.00 | 24-7 | 24-8 | 24-8 | 24-9 | 24-9 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 |
| 375.00 | 28-3 | 28-4 | 28-4 | 28-5 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 | 28-8 |
| 400.00 | 32-2 | 32-3 | 32-4 | 32-4 | 32-5 | 32-5 | 32-6 | 32-6 | 32-7 | 32-7 |
| 425.00 | 36-4 | 36-5 | 36-6 | 36-7 | 36-7 | 36-8 | 36-9 | 36-9 | 36-10 | 36-10 |
| 450.00 | 40-10 | 40-11 | 41-0 | 41-1 | 41-1 | 41-2 | 41-3 | 41-3 | 41-4 | 41-5 |
| 475.00 | 45-6 | 45-7 | 45-8 | 45-9 | 45-10 | 45-11 | 46-0 | 46-1 | 46-1 | 46-2 |
| 500.00 | 50-6 | 50-7 | 50-8 | 50-10 | 50-10 | 50-11 | 51-0 | 51-1 | 51-2 | 51-3 |
| 525.00 | 55-9 | 55-10 | 56-0 | 56-1 | 56-2 | 56-3 | 56-4 | 56-5 | 56-6 | 56-7 |
| 550.00 | 61-3 | 61-5 | 61-6 | 61-8 | 61-9 | 61-10 | 61-11 | 62-0 | 62-1 | 62-2 |
| 575.00 | 67-1 | 67-2 | 67-4 | 67-6 | 67-7 | 67-8 | 67-9 | 67-10 | 67-11 | 68-0 |
| 600.00 | 73-2 | 73-3 | 73-5 | 73-7 | 73-8 | 73-9 | 73-11 | 74-0 | 74-1 | 74-2 |
| 625.00 | 79-6 | 79-8 | 79-10 | 80-0 | 80-1 | 80-2 | 80-4 | 80-5 | 80-6 | 80-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 1.63 | 3000 | 1.63 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.77 | 847 | 0.61 | 1057 |
| 30 | 0 | 0 | 0 | 0.52 | 1.22 | 531 | 1.04 | 628 |
| 40 | 0 | 0 | 0 | 0.52 | 1.36 | 478 | 1.18 | 553 |
| 50 | 0 | 0 | 0 | 0.52 | 1.49 | 437 | 1.31 | 497 |
| 60 | 0 | 0 | 0 | 0.52 | 1.57 | 414 | 1.43 | 454 |
| 70 | 0 | 0 | 0 | 0.52 | 1.64 | 396 | 1.55 | 419 |
| 80 | 0 | 0 | 0 | 0.52 | 1.71 | 380 | 1.67 | 391 |
| 90 | 0 | 0 | 0 | 0.52 | 1.78 | 366 | 1.77 | 367 |
| 100 | 0 | 0 | 0 | 0.52 | 1.85 | 352 | 1.85 | 352 |
| 110 | 0 | 0 | 0 | 0.52 | 1.91 | 340 | 1.91 | 340 |
| 120 | 0 | 0 | 0 | 0.52 | 1.97 | 330 | 1.97 | 330 |
| 130 | 0 | 0 | 0 | 0.52 | 2.04 | 320 | 2.04 | 320 |
| 167 | 0 | 0 | 0 | 0.52 | 2.25 | 289 | 2.25 | 289 |
| 212 | 0 | 0 | 0 | 0.52 | 2.49 | 261 | 2.49 | 261 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 6.53 | 3000 | 6.53 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 5.74 | 455 | 5.54 | 471 |
| 30 | 0 | 0 | 0 | 0.52 | 6.14 | 425 | 5.96 | 438 |
| 40 | 0 | 0 | 0 | 0.52 | 6.26 | 417 | 6.09 | 429 |
| 50 | 0 | 0 | 0 | 0.52 | 6.39 | 409 | 6.21 | 420 |
| 60 | 0 | 0 | 0 | 0.52 | 6.47 | 403 | 6.33 | 412 |
| 70 | 0 | 0 | 0 | 0.52 | 6.55 | 399 | 6.45 | 404 |
| 80 | 0 | 0 | 0 | 0.52 | 6.63 | 394 | 6.57 | 397 |
| 90 | 0 | 0 | 0 | 0.52 | 6.71 | 389 | 6.69 | 390 |
| 100 | 0 | 0 | 0 | 0.52 | 6.79 | 385 | 6.79 | 385 |
| 110 | 0 | 0 | 0 | 0.52 | 6.87 | 380 | 6.87 | 380 |
| 120 | 0 | 0 | 0 | 0.52 | 6.94 | 376 | 6.94 | 376 |
| 130 | 0 | 0 | 0 | 0.52 | 7.02 | 372 | 7.02 | 372 |
| 167 | 0 | 0 | 0 | 0.52 | 7.29 | 359 | 7.29 | 359 |
| 212 | 0 | 0 | 0 | 0.52 | 7.6 | 344 | 7.6 | 344 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 14.78 | 3000 | 14.78 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 14 | 421 | 13.81 | 427 |
| 30 | 0 | 0 | 0 | 0.52 | 14.39 | 410 | 14.21 | 415 |
| 40 | 0 | 0 | 0 | 0.52 | 14.51 | 407 | 14.34 | 412 |
| 50 | 0 | 0 | 0 | 0.52 | 14.63 | 404 | 14.46 | 408 |
| 60 | 0 | 0 | 0 | 0.52 | 14.72 | 401 | 14.58 | 405 |
| 70 | 0 | 0 | 0 | 0.52 | 14.8 | 399 | 14.7 | 402 |
| 80 | 0 | 0 | 0 | 0.52 | 14.88 | 397 | 14.82 | 399 |
| 90 | 0 | 0 | 0 | 0.52 | 14.96 | 395 | 14.94 | 395 |
| 100 | 0 | 0 | 0 | 0.52 | 15.05 | 393 | 15.05 | 393 |
| 110 | 0 | 0 | 0 | 0.52 | 15.12 | 391 | 15.12 | 391 |
| 120 | 0 | 0 | 0 | 0.52 | 15.2 | 389 | 15.2 | 389 |
| 130 | 0 | 0 | 0 | 0.52 | 15.28 | 387 | 15.28 | 387 |
| 167 | 0 | 0 | 0 | 0.52 | 15.57 | 380 | 15.57 | 380 |
| 212 | 0 | 0 | 0 | 0.52 | 15.92 | 372 | 15.92 | 372 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 26.48 | 3000 | 26.48 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 25.71 | 411 | 25.51 | 414 |
| 30 | 0 | 0 | 0 | 0.52 | 26.09 | 405 | 25.92 | 408 |
| 40 | 0 | 0 | 0 | 0.52 | 26.21 | 404 | 26.04 | 406 |
| 50 | 0 | 0 | 0 | 0.52 | 26.33 | 402 | 26.16 | 404 |
| 60 | 0 | 0 | 0 | 0.52 | 26.42 | 401 | 26.28 | 403 |
| 70 | 0 | 0 | 0 | 0.52 | 26.5 | 399 | 26.4 | 401 |
| 80 | 0 | 0 | 0 | 0.52 | 26.58 | 398 | 26.52 | 399 |
| 90 | 0 | 0 | 0 | 0.52 | 26.66 | 397 | 26.64 | 397 |
| 100 | 0 | 0 | 0 | 0.52 | 26.75 | 396 | 26.75 | 396 |
| 110 | 0 | 0 | 0 | 0.52 | 26.83 | 395 | 26.83 | 395 |
| 120 | 0 | 0 | 0 | 0.52 | 26.91 | 393 | 26.91 | 393 |
| 130 | 0 | 0 | 0 | 0.52 | 26.99 | 392 | 26.99 | 392 |
| 167 | 0 | 0 | 0 | 0.52 | 27.29 | 388 | 27.29 | 388 |
| 212 | 0 | 0 | 0 | 0.52 | 27.64 | 383 | 27.64 | 383 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 3.904 | 41.8 | 3000 | 41.8 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 41.03 | 407 | 40.84 | 409 |
| 30 | 0 | 0 | 0 | 0.52 | 41.41 | 403 | 41.24 | 405 |
| 40 | 0 | 0 | 0 | 0.52 | 41.53 | 402 | 41.36 | 404 |
| 50 | 0 | 0 | 0 | 0.52 | 41.65 | 401 | 41.48 | 403 |
| 60 | 0 | 0 | 0 | 0.52 | 41.74 | 400 | 41.6 | 401 |
| 70 | 0 | 0 | 0 | 0.52 | 41.82 | 399 | 41.72 | 400 |
| 80 | 0 | 0 | 0 | 0.52 | 41.9 | 399 | 41.84 | 399 |
| 90 | 0 | 0 | 0 | 0.52 | 41.98 | 398 | 41.96 | 398 |
| 100 | 0 | 0 | 0 | 0.52 | 42.07 | 397 | 42.07 | 397 |
| 110 | 0 | 0 | 0 | 0.52 | 42.15 | 396 | 42.15 | 396 |
| 120 | 0 | 0 | 0 | 0.52 | 42.23 | 396 | 42.23 | 396 |
| 130 | 0 | 0 | 0 | 0.52 | 42.32 | 395 | 42.32 | 395 |
| 167 | 0 | 0 | 0 | 0.52 | 42.61 | 392 | 42.61 | 392 |
| 212 | 0 | 0 | 0 | 0.52 | 42.98 | 389 | 42.98 | 389 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-5 | 1-7 | 1-10 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 |
| 150.00 | 2-0 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-9 | 4-0 | 4-2 | 4-4 |
| 175.00 | 2-9 | 3-2 | 3-7 | 4-0 | 4-5 | 4-9 | 5-1 | 5-5 | 5-8 | 5-10 |
| 200.00 | 3-7 | 4-2 | 4-8 | 5-3 | 5-9 | 6-3 | 6-8 | 7-1 | 7-5 | 7-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 |
| 100.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-8 | 1-11 | 2-2 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 |
| 150.00 | 2-5 | 2-9 | 3-1 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 |
| 175.00 | 3-4 | 3-9 | 4-2 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 |
| 200.00 | 4-4 | 4-11 | 5-5 | 5-11 | 6-4 | 6-7 | 6-10 | 7-1 | 7-5 | 7-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 |
| 125.00 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 |
| 150.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 |
| 175.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 200.00 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 | 6-10 |
| 225.00 | 7-5 | 7-7 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 | 8-8 |
| 250.00 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-3 | 10-6 | 10-7 | 10-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-8 | 1-9 |
| 125.00 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 |
| 150.00 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 |
| 175.00 | 4-7 | 4-8 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 |
| 200.00 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 |
| 225.00 | 7-7 | 7-9 | 7-11 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 250.00 | 9-5 | 9-7 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-6 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 |
| 175.00 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 |
| 200.00 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 |
| 225.00 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 |
| 250.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 |
| 275.00 | 11-10 | 11-11 | 12-0 | 12-2 | 12-3 | 12-4 | 12-5 | 12-7 | 12-8 | 12-8 |
| 300.00 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-1 |
| 325.00 | 16-7 | 16-8 | 16-10 | 17-0 | 17-1 | 17-3 | 17-5 | 17-7 | 17-8 | 17-9 |
| 350.00 | 19-2 | 19-4 | 19-6 | 19-8 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-7 |
| 375.00 | 22-1 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 | 23-2 | 23-5 | 23-7 | 23-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-9 |
| 175.00 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 |
| 200.00 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 |
| 225.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 |
| 250.00 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 |
| 275.00 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-8 |
| 300.00 | 14-3 | 14-5 | 14-6 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-1 |
| 325.00 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 |
| 350.00 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-2 | 20-3 | 20-5 | 20-6 | 20-7 |
| 375.00 | 22-4 | 22-6 | 22-9 | 22-11 | 23-0 | 23-2 | 23-3 | 23-5 | 23-7 | 23-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS



OH811.118

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 225.00 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 |
| 250.00 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 |
| 275.00 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 | 12-7 | 12-7 | 12-8 |
| 300.00 | 14-6 | 14-7 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 14-11 | 15-0 | 15-1 |
| 325.00 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 |
| 350.00 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 |
| 375.00 | 22-8 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-4 | 23-5 | 23-6 | 23-7 |
| 400.00 | 25-10 | 25-11 | 26-0 | 26-2 | 26-3 | 26-5 | 26-6 | 26-8 | 26-9 | 26-10 |
| 425.00 | 29-2 | 29-3 | 29-5 | 29-7 | 29-8 | 29-10 | 30-0 | 30-1 | 30-3 | 30-4 |
| 450.00 | 32-8 | 32-10 | 33-0 | 33-2 | 33-4 | 33-6 | 33-7 | 33-9 | 33-11 | 34-0 |
| 475.00 | 36-5 | 36-8 | 36-10 | 37-0 | 37-2 | 37-4 | 37-6 | 37-8 | 37-10 | 37-11 |
| 500.00 | 40-5 | 40-7 | 40-10 | 41-0 | 41-2 | 41-5 | 41-7 | 41-9 | 41-11 | 42-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 225.00 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-5 |
| 250.00 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 |
| 275.00 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 |
| 300.00 | 14-7 | 14-8 | 14-8 | 14-9 | 14-10 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 |
| 325.00 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 |
| 350.00 | 19-10 | 19-11 | 20-1 | 20-2 | 20-2 | 20-3 | 20-4 | 20-5 | 20-5 | 20-6 |
| 375.00 | 22-10 | 22-11 | 23-0 | 23-2 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 |
| 400.00 | 26-0 | 26-1 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 |
| 425.00 | 29-4 | 29-6 | 29-7 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-3 | 30-4 |
| 450.00 | 32-11 | 33-1 | 33-3 | 33-5 | 33-6 | 33-7 | 33-8 | 33-10 | 33-11 | 34-0 |
| 475.00 | 36-8 | 36-10 | 37-1 | 37-3 | 37-4 | 37-5 | 37-7 | 37-8 | 37-10 | 37-11 |
| 500.00 | 40-8 | 40-11 | 41-1 | 41-3 | 41-5 | 41-6 | 41-8 | 41-10 | 41-11 | 42-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS



OH811.119

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 | 10-6 |
| 275.00 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 |
| 300.00 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 |
| 325.00 | 17-3 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 |
| 350.00 | 20-1 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 |
| 375.00 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-5 | 23-6 | 23-7 | 23-7 |
| 400.00 | 26-3 | 26-4 | 26-5 | 26-6 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 |
| 425.00 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 |
| 450.00 | 33-3 | 33-4 | 33-5 | 33-7 | 33-8 | 33-9 | 33-10 | 33-11 | 34-0 | 34-1 |
| 475.00 | 37-1 | 37-2 | 37-4 | 37-5 | 37-6 | 37-7 | 37-9 | 37-10 | 37-11 | 38-0 |
| 500.00 | 41-1 | 41-3 | 41-4 | 41-6 | 41-7 | 41-9 | 41-10 | 42-0 | 42-1 | 42-2 |
| 525.00 | 45-4 | 45-6 | 45-8 | 45-9 | 45-11 | 46-0 | 46-2 | 46-4 | 46-5 | 46-6 |
| 550.00 | 49-10 | 50-0 | 50-2 | 50-3 | 50-5 | 50-7 | 50-9 | 50-10 | 51-0 | 51-1 |
| 575.00 | 54-6 | 54-8 | 54-10 | 55-0 | 55-2 | 55-4 | 55-6 | 55-8 | 55-10 | 55-11 |
| 600.00 | 59-5 | 59-7 | 59-10 | 60-0 | 60-2 | 60-4 | 60-6 | 60-8 | 60-10 | 60-11 |
| 625.00 | 64-7 | 64-9 | 64-11 | 65-2 | 65-4 | 65-6 | 65-9 | 65-11 | 66-1 | 66-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 | 10-5 | 10-6 |
| 275.00 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 |
| 300.00 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 | 15-0 | 15-0 | 15-0 | 15-1 | 15-1 |
| 325.00 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 |
| 350.00 | 20-2 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 | 20-5 | 20-6 | 20-6 | 20-7 |
| 375.00 | 23-2 | 23-2 | 23-3 | 23-4 | 23-5 | 23-5 | 23-6 | 23-6 | 23-7 | 23-7 |
| 400.00 | 26-4 | 26-5 | 26-6 | 26-7 | 26-7 | 26-8 | 26-9 | 26-9 | 26-10 | 26-11 |
| 425.00 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 | 30-2 | 30-3 | 30-4 | 30-5 |
| 450.00 | 33-5 | 33-6 | 33-7 | 33-8 | 33-9 | 33-10 | 33-11 | 33-11 | 34-0 | 34-1 |
| 475.00 | 37-3 | 37-4 | 37-5 | 37-7 | 37-8 | 37-8 | 37-9 | 37-10 | 37-11 | 38-0 |
| 500.00 | 41-3 | 41-5 | 41-6 | 41-8 | 41-9 | 41-10 | 41-11 | 42-0 | 42-1 | 42-2 |
| 525.00 | 45-7 | 45-8 | 45-10 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-6 |
| 550.00 | 50-1 | 50-2 | 50-4 | 50-6 | 50-7 | 50-8 | 50-10 | 50-11 | 51-0 | 51-1 |
| 575.00 | 54-9 | 54-11 | 55-1 | 55-3 | 55-4 | 55-6 | 55-7 | 55-8 | 55-10 | 55-11 |
| 600.00 | 59-8 | 59-10 | 60-1 | 60-3 | 60-4 | 60-6 | 60-7 | 60-8 | 60-10 | 60-11 |
| 625.00 | 64-10 | 65-0 | 65-3 | 65-5 | 65-7 | 65-8 | 65-10 | 65-11 | 66-1 | 66-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 1.15 | 955 | 1.1 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 0.56 | 1167 | 0.53 | 1225 |
| 30 | 0 | 0 | 0 | 0.52 | 0.7 | 931 | 0.65 | 1001 |
| 40 | 0 | 0 | 0 | 0.52 | 0.85 | 762 | 0.79 | 827 |
| 50 | 0 | 0 | 0 | 0.52 | 1.01 | 644 | 0.93 | 698 |
| 60 | 0 | 0 | 0 | 0.52 | 1.16 | 561 | 1.08 | 604 |
| 70 | 0 | 0 | 0 | 0.52 | 1.3 | 501 | 1.21 | 535 |
| 80 | 0 | 0 | 0 | 0.52 | 1.43 | 455 | 1.35 | 483 |
| 90 | 0 | 0 | 0 | 0.52 | 1.51 | 431 | 1.47 | 443 |
| 100 | 0 | 0 | 0 | 0.52 | 1.58 | 411 | 1.58 | 411 |
| 110 | 0 | 0 | 0 | 0.52 | 1.65 | 394 | 1.65 | 394 |
| 120 | 0 | 0 | 0 | 0.52 | 1.72 | 378 | 1.72 | 378 |
| 130 | 0 | 0 | 0 | 0.52 | 1.79 | 364 | 1.79 | 364 |
| 167 | 0 | 0 | 0 | 0.52 | 2.02 | 322 | 2.02 | 322 |
| 212 | 0 | 0 | 0 | 0.52 | 2.28 | 285 | 2.28 | 285 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 4.46 | 984 | 4.39 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 3.73 | 697 | 3.65 | 714 |
| 30 | 0 | 0 | 0 | 0.52 | 3.93 | 663 | 3.84 | 679 |
| 40 | 0 | 0 | 0 | 0.52 | 4.11 | 633 | 4.02 | 648 |
| 50 | 0 | 0 | 0 | 0.52 | 4.29 | 607 | 4.19 | 621 |
| 60 | 0 | 0 | 0 | 0.52 | 4.47 | 583 | 4.36 | 597 |
| 70 | 0 | 0 | 0 | 0.52 | 4.64 | 562 | 4.53 | 575 |
| 80 | 0 | 0 | 0 | 0.52 | 4.8 | 543 | 4.69 | 555 |
| 90 | 0 | 0 | 0 | 0.52 | 4.95 | 526 | 4.85 | 538 |
| 100 | 0 | 0 | 0 | 0.52 | 5.05 | 516 | 5 | 521 |
| 110 | 0 | 0 | 0 | 0.52 | 5.15 | 506 | 5.15 | 506 |
| 120 | 0 | 0 | 0 | 0.52 | 5.25 | 497 | 5.25 | 497 |
| 130 | 0 | 0 | 0 | 0.52 | 5.34 | 488 | 5.34 | 488 |
| 167 | 0 | 0 | 0 | 0.52 | 5.68 | 459 | 5.68 | 459 |
| 212 | 0 | 0 | 0 | 0.52 | 6.07 | 430 | 6.07 | 430 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 9.97 | 992 | 9.9 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 9.24 | 635 | 9.15 | 641 |
| 30 | 0 | 0 | 0 | 0.52 | 9.43 | 623 | 9.34 | 629 |
| 40 | 0 | 0 | 0 | 0.52 | 9.62 | 611 | 9.52 | 617 |
| 50 | 0 | 0 | 0 | 0.52 | 9.8 | 599 | 9.7 | 606 |
| 60 | 0 | 0 | 0 | 0.52 | 9.98 | 589 | 9.87 | 595 |
| 70 | 0 | 0 | 0 | 0.52 | 10.16 | 579 | 10.04 | 585 |
| 80 | 0 | 0 | 0 | 0.52 | 10.33 | 569 | 10.21 | 575 |
| 90 | 0 | 0 | 0 | 0.52 | 10.5 | 560 | 10.38 | 566 |
| 100 | 0 | 0 | 0 | 0.52 | 10.63 | 553 | 10.55 | 557 |
| 110 | 0 | 0 | 0 | 0.52 | 10.74 | 548 | 10.71 | 549 |
| 120 | 0 | 0 | 0 | 0.52 | 10.85 | 542 | 10.85 | 542 |
| 130 | 0 | 0 | 0 | 0.52 | 10.95 | 537 | 10.95 | 537 |
| 167 | 0 | 0 | 0 | 0.52 | 11.34 | 519 | 11.34 | 519 |
| 212 | 0 | 0 | 0 | 0.52 | 11.8 | 499 | 11.8 | 499 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 17.73 | 996 | 17.65 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 17 | 616 | 16.91 | 619 |
| 30 | 0 | 0 | 0 | 0.52 | 17.19 | 609 | 17.09 | 613 |
| 40 | 0 | 0 | 0 | 0.52 | 17.38 | 603 | 17.27 | 607 |
| 50 | 0 | 0 | 0 | 0.52 | 17.56 | 597 | 17.45 | 600 |
| 60 | 0 | 0 | 0 | 0.52 | 17.74 | 591 | 17.63 | 595 |
| 70 | 0 | 0 | 0 | 0.52 | 17.92 | 585 | 17.8 | 589 |
| 80 | 0 | 0 | 0 | 0.52 | 18.1 | 579 | 17.98 | 583 |
| 90 | 0 | 0 | 0 | 0.52 | 18.27 | 574 | 18.15 | 578 |
| 100 | 0 | 0 | 0 | 0.52 | 18.41 | 570 | 18.32 | 572 |
| 110 | 0 | 0 | 0 | 0.52 | 18.53 | 566 | 18.49 | 567 |
| 120 | 0 | 0 | 0 | 0.52 | 18.65 | 563 | 18.65 | 563 |
| 130 | 0 | 0 | 0 | 0.52 | 18.76 | 559 | 18.76 | 559 |
| 167 | 0 | 0 | 0 | 0.52 | 19.17 | 548 | 19.17 | 548 |
| 212 | 0 | 0 | 0 | 0.52 | 19.66 | 534 | 19.66 | 534 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 27.79 | 997 | 27.7 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 27.06 | 608 | 26.97 | 610 |
| 30 | 0 | 0 | 0 | 0.52 | 27.24 | 604 | 27.15 | 606 |
| 40 | 0 | 0 | 0 | 0.52 | 27.43 | 600 | 27.33 | 602 |
| 50 | 0 | 0 | 0 | 0.52 | 27.61 | 596 | 27.5 | 598 |
| 60 | 0 | 0 | 0 | 0.52 | 27.79 | 592 | 27.68 | 594 |
| 70 | 0 | 0 | 0 | 0.52 | 27.97 | 588 | 27.86 | 591 |
| 80 | 0 | 0 | 0 | 0.52 | 28.15 | 584 | 28.03 | 587 |
| 90 | 0 | 0 | 0 | 0.52 | 28.33 | 581 | 28.21 | 583 |
| 100 | 0 | 0 | 0 | 0.52 | 28.48 | 578 | 28.38 | 580 |
| 110 | 0 | 0 | 0 | 0.52 | 28.6 | 576 | 28.55 | 577 |
| 120 | 0 | 0 | 0 | 0.52 | 28.72 | 573 | 28.72 | 573 |
| 130 | 0 | 0 | 0 | 0.52 | 28.84 | 571 | 28.84 | 571 |
| 167 | 0 | 0 | 0 | 0.52 | 29.26 | 563 | 29.26 | 563 |
| 212 | 0 | 0 | 0 | 0.52 | 29.77 | 554 | 29.77 | 554 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 125.00 | 0-10 | 1-0 | 1-3 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 | 2-6 | 2-7 |
| 150.00 | 1-2 | 1-6 | 1-9 | 2-1 | 2-5 | 2-9 | 3-0 | 3-4 | 3-7 | 3-9 |
| 175.00 | 1-8 | 2-0 | 2-5 | 2-10 | 3-4 | 3-9 | 4-1 | 4-6 | 4-10 | 5-1 |
| 200.00 | 2-1 | 2-7 | 3-2 | 3-9 | 4-4 | 4-10 | 5-5 | 5-11 | 6-4 | 6-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 0-10 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-4 | 2-6 | 2-7 |
| 150.00 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-3 | 3-5 | 3-7 | 3-9 |
| 175.00 | 1-8 | 2-2 | 2-7 | 3-1 | 3-7 | 4-0 | 4-5 | 4-7 | 4-10 | 5-1 |
| 200.00 | 2-3 | 2-10 | 3-5 | 4-0 | 4-8 | 5-2 | 5-9 | 6-0 | 6-4 | 6-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 |
| 125.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 175.00 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 |
| 200.00 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 |
| 225.00 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 |
| 250.00 | 5-8 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 |
| 125.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 |
| 150.00 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 175.00 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-10 | 3-11 |
| 200.00 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 |
| 225.00 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-6 |
| 250.00 | 5-10 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 |
| 175.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 |
| 200.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 |
| 225.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 250.00 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-4 | 7-5 |
| 275.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 |
| 300.00 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 |
| 325.00 | 10-9 | 11-0 | 11-2 | 11-5 | 11-7 | 11-9 | 12-0 | 12-2 | 12-5 | 12-7 |
| 350.00 | 12-6 | 12-9 | 13-0 | 13-2 | 13-5 | 13-8 | 13-11 | 14-2 | 14-4 | 14-7 |
| 375.00 | 14-4 | 14-7 | 14-11 | 15-2 | 15-5 | 15-8 | 16-0 | 16-3 | 16-6 | 16-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 |
| 175.00 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 |
| 200.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 |
| 225.00 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 |
| 250.00 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 | 7-5 |
| 275.00 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 | 9-0 |
| 300.00 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 |
| 325.00 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-6 | 12-7 |
| 350.00 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-6 | 14-7 |
| 375.00 | 14-5 | 14-9 | 15-1 | 15-4 | 15-7 | 15-11 | 16-2 | 16-5 | 16-7 | 16-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 225.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 |
| 250.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 |
| 275.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 300.00 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-4 | 10-5 |
| 325.00 | 11-2 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 | 12-2 |
| 350.00 | 12-11 | 13-1 | 13-3 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 |
| 375.00 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 15-11 | 16-1 | 16-3 |
| 400.00 | 16-11 | 17-1 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 |
| 425.00 | 19-1 | 19-4 | 19-6 | 19-8 | 19-11 | 20-1 | 20-4 | 20-6 | 20-8 | 20-11 |
| 450.00 | 21-5 | 21-8 | 21-11 | 22-1 | 22-4 | 22-7 | 22-9 | 23-0 | 23-2 | 23-5 |
| 475.00 | 23-10 | 24-2 | 24-5 | 24-8 | 24-11 | 25-2 | 25-5 | 25-7 | 25-10 | 26-1 |
| 500.00 | 26-6 | 26-9 | 27-0 | 27-4 | 27-7 | 27-10 | 28-2 | 28-5 | 28-8 | 28-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 |
| 225.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 |
| 250.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 |
| 275.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-7 | 8-7 | 8-8 | 8-9 |
| 300.00 | 9-7 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 |
| 325.00 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 |
| 350.00 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 |
| 375.00 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-2 | 16-3 |
| 400.00 | 17-0 | 17-2 | 17-5 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-6 |
| 425.00 | 19-2 | 19-5 | 19-7 | 19-10 | 20-0 | 20-3 | 20-5 | 20-8 | 20-10 | 20-11 |
| 450.00 | 21-6 | 21-9 | 22-0 | 22-3 | 22-6 | 22-8 | 22-11 | 23-2 | 23-4 | 23-6 |
| 475.00 | 24-0 | 24-3 | 24-6 | 24-9 | 25-1 | 25-4 | 25-7 | 25-10 | 26-0 | 26-2 |
| 500.00 | 26-7 | 26-11 | 27-2 | 27-6 | 27-9 | 28-0 | 28-4 | 28-7 | 28-10 | 29-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 |
| 275.00 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 |
| 300.00 | 9-8 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 |
| 325.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-0 |
| 350.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-10 | 13-11 | 14-0 |
| 375.00 | 15-2 | 15-3 | 15-4 | 15-5 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 |
| 400.00 | 17-3 | 17-4 | 17-6 | 17-7 | 17-8 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 |
| 425.00 | 19-6 | 19-7 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 |
| 450.00 | 21-10 | 22-0 | 22-1 | 22-3 | 22-5 | 22-7 | 22-8 | 22-10 | 23-0 | 23-1 |
| 475.00 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-3 | 25-5 | 25-7 | 25-9 |
| 500.00 | 27-0 | 27-2 | 27-4 | 27-6 | 27-8 | 27-10 | 28-0 | 28-2 | 28-5 | 28-7 |
| 525.00 | 29-9 | 29-11 | 30-2 | 30-4 | 30-6 | 30-9 | 30-11 | 31-1 | 31-4 | 31-6 |
| 550.00 | 32-8 | 32-10 | 33-1 | 33-4 | 33-6 | 33-9 | 33-11 | 34-2 | 34-4 | 34-7 |
| 575.00 | 35-8 | 35-11 | 36-2 | 36-5 | 36-8 | 36-11 | 37-1 | 37-4 | 37-7 | 37-10 |
| 600.00 | 38-11 | 39-2 | 39-5 | 39-8 | 39-11 | 40-2 | 40-5 | 40-8 | 40-11 | 41-2 |
| 625.00 | 42-3 | 42-6 | 42-9 | 43-1 | 43-4 | 43-8 | 43-11 | 44-2 | 44-5 | 44-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-9 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 |
| 275.00 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 |
| 300.00 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 |
| 325.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 350.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 |
| 375.00 | 15-2 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-1 |
| 400.00 | 17-4 | 17-5 | 17-6 | 17-8 | 17-9 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 |
| 425.00 | 19-6 | 19-8 | 19-10 | 19-11 | 20-1 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 |
| 450.00 | 21-11 | 22-1 | 22-2 | 22-4 | 22-6 | 22-8 | 22-9 | 22-11 | 23-1 | 23-2 |
| 475.00 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-5 | 25-7 | 25-8 | 25-10 |
| 500.00 | 27-1 | 27-3 | 27-5 | 27-7 | 27-10 | 28-0 | 28-2 | 28-4 | 28-6 | 28-7 |
| 525.00 | 29-10 | 30-1 | 30-3 | 30-5 | 30-8 | 30-10 | 31-1 | 31-3 | 31-5 | 31-7 |
| 550.00 | 32-9 | 33-0 | 33-3 | 33-5 | 33-8 | 33-11 | 34-1 | 34-4 | 34-6 | 34-8 |
| 575.00 | 35-10 | 36-1 | 36-4 | 36-7 | 36-10 | 37-1 | 37-3 | 37-6 | 37-9 | 37-10 |
| 600.00 | 39-0 | 39-4 | 39-7 | 39-10 | 40-1 | 40-4 | 40-7 | 40-11 | 41-1 | 41-3 |
| 625.00 | 42-4 | 42-8 | 42-11 | 43-3 | 43-6 | 43-10 | 44-1 | 44-5 | 44-7 | 44-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 0.82 | 1343 | 0.73 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 0.32 | 2021 | 0.31 | 2129 |
| 30 | 0 | 0 | 0 | 0.52 | 0.39 | 1653 | 0.36 | 1825 |
| 40 | 0 | 0 | 0 | 0.52 | 0.49 | 1323 | 0.42 | 1531 |
| 50 | 0 | 0 | 0 | 0.52 | 0.62 | 1050 | 0.52 | 1261 |
| 60 | 0 | 0 | 0 | 0.52 | 0.77 | 846 | 0.63 | 1030 |
| 70 | 0 | 0 | 0 | 0.52 | 0.93 | 702 | 0.77 | 847 |
| 80 | 0 | 0 | 0 | 0.52 | 1.08 | 603 | 0.91 | 712 |
| 90 | 0 | 0 | 0 | 0.52 | 1.17 | 555 | 1.06 | 614 |
| 100 | 0 | 0 | 0 | 0.52 | 1.25 | 522 | 1.2 | 543 |
| 110 | 0 | 0 | 0 | 0.52 | 1.33 | 491 | 1.33 | 491 |
| 120 | 0 | 0 | 0 | 0.52 | 1.4 | 465 | 1.4 | 465 |
| 130 | 0 | 0 | 0 | 0.52 | 1.47 | 442 | 1.47 | 442 |
| 167 | 0 | 0 | 0 | 0.52 | 1.73 | 376 | 1.73 | 376 |
| 212 | 0 | 0 | 0 | 0.52 | 2.02 | 322 | 2.02 | 322 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 3.07 | 1426 | 2.92 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 2.02 | 1288 | 1.85 | 1403 |
| 30 | 0 | 0 | 0 | 0.52 | 2.27 | 1146 | 2.08 | 1252 |
| 40 | 0 | 0 | 0 | 0.52 | 2.52 | 1034 | 2.31 | 1128 |
| 50 | 0 | 0 | 0 | 0.52 | 2.76 | 944 | 2.53 | 1026 |
| 60 | 0 | 0 | 0 | 0.52 | 2.99 | 871 | 2.76 | 943 |
| 70 | 0 | 0 | 0 | 0.52 | 3.21 | 810 | 2.98 | 873 |
| 80 | 0 | 0 | 0 | 0.52 | 3.43 | 760 | 3.19 | 815 |
| 90 | 0 | 0 | 0 | 0.52 | 3.63 | 717 | 3.4 | 766 |
| 100 | 0 | 0 | 0 | 0.52 | 3.79 | 687 | 3.6 | 724 |
| 110 | 0 | 0 | 0 | 0.52 | 3.9 | 667 | 3.79 | 687 |
| 120 | 0 | 0 | 0 | 0.52 | 4.01 | 649 | 3.97 | 655 |
| 130 | 0 | 0 | 0 | 0.52 | 4.13 | 631 | 4.13 | 631 |
| 167 | 0 | 0 | 0 | 0.52 | 4.53 | 576 | 4.53 | 576 |
| 212 | 0 | 0 | 0 | 0.52 | 4.98 | 523 | 4.98 | 523 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 6.76 | 1460 | 6.58 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 5.59 | 1048 | 5.36 | 1093 |
| 30 | 0 | 0 | 0 | 0.52 | 5.87 | 998 | 5.63 | 1041 |
| 40 | 0 | 0 | 0 | 0.52 | 6.14 | 954 | 5.89 | 994 |
| 50 | 0 | 0 | 0 | 0.52 | 6.4 | 915 | 6.15 | 953 |
| 60 | 0 | 0 | 0 | 0.52 | 6.66 | 880 | 6.4 | 916 |
| 70 | 0 | 0 | 0 | 0.52 | 6.91 | 849 | 6.65 | 882 |
| 80 | 0 | 0 | 0 | 0.52 | 7.15 | 820 | 6.88 | 852 |
| 90 | 0 | 0 | 0 | 0.52 | 7.38 | 794 | 7.12 | 824 |
| 100 | 0 | 0 | 0 | 0.52 | 7.61 | 770 | 7.34 | 798 |
| 110 | 0 | 0 | 0 | 0.52 | 7.77 | 754 | 7.57 | 775 |
| 120 | 0 | 0 | 0 | 0.52 | 7.91 | 742 | 7.78 | 754 |
| 130 | 0 | 0 | 0 | 0.52 | 8.05 | 729 | 8 | 734 |
| 167 | 0 | 0 | 0 | 0.52 | 8.53 | 688 | 8.53 | 688 |
| 212 | 0 | 0 | 0 | 0.52 | 9.1 | 645 | 9.1 | 645 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 11.91 | 1476 | 11.72 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 10.71 | 974 | 10.47 | 996 |
| 30 | 0 | 0 | 0 | 0.52 | 10.99 | 949 | 10.74 | 971 |
| 40 | 0 | 0 | 0 | 0.52 | 11.27 | 926 | 11.01 | 948 |
| 50 | 0 | 0 | 0 | 0.52 | 11.54 | 904 | 11.27 | 926 |
| 60 | 0 | 0 | 0 | 0.52 | 11.8 | 884 | 11.53 | 905 |
| 70 | 0 | 0 | 0 | 0.52 | 12.06 | 865 | 11.78 | 886 |
| 80 | 0 | 0 | 0 | 0.52 | 12.31 | 848 | 12.03 | 867 |
| 90 | 0 | 0 | 0 | 0.52 | 12.56 | 831 | 12.28 | 850 |
| 100 | 0 | 0 | 0 | 0.52 | 12.81 | 815 | 12.52 | 834 |
| 110 | 0 | 0 | 0 | 0.52 | 13.03 | 802 | 12.76 | 818 |
| 120 | 0 | 0 | 0 | 0.52 | 13.18 | 792 | 13 | 804 |
| 130 | 0 | 0 | 0 | 0.52 | 13.33 | 784 | 13.23 | 790 |
| 167 | 0 | 0 | 0 | 0.52 | 13.88 | 753 | 13.88 | 753 |
| 212 | 0 | 0 | 0 | 0.52 | 14.52 | 720 | 14.52 | 720 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 18.54 | 1484 | 18.34 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 17.34 | 942 | 17.09 | 956 |
| 30 | 0 | 0 | 0 | 0.52 | 17.61 | 927 | 17.36 | 941 |
| 40 | 0 | 0 | 0 | 0.52 | 17.89 | 913 | 17.63 | 927 |
| 50 | 0 | 0 | 0 | 0.52 | 18.16 | 899 | 17.89 | 913 |
| 60 | 0 | 0 | 0 | 0.52 | 18.43 | 886 | 18.15 | 900 |
| 70 | 0 | 0 | 0 | 0.52 | 18.7 | 874 | 18.41 | 887 |
| 80 | 0 | 0 | 0 | 0.52 | 18.96 | 862 | 18.67 | 875 |
| 90 | 0 | 0 | 0 | 0.52 | 19.21 | 851 | 18.92 | 864 |
| 100 | 0 | 0 | 0 | 0.52 | 19.47 | 840 | 19.17 | 853 |
| 110 | 0 | 0 | 0 | 0.52 | 19.72 | 829 | 19.42 | 842 |
| 120 | 0 | 0 | 0 | 0.52 | 19.89 | 822 | 19.67 | 831 |
| 130 | 0 | 0 | 0 | 0.52 | 20.05 | 816 | 19.91 | 821 |
| 167 | 0 | 0 | 0 | 0.52 | 20.63 | 793 | 20.63 | 793 |
| 212 | 0 | 0 | 0 | 0.52 | 21.32 | 768 | 21.32 | 768 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 |
| 150.00 | 0-8 | 0-10 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-8 | 3-0 |
| 175.00 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-4 | 2-10 | 3-3 | 3-8 | 4-1 |
| 200.00 | 1-3 | 1-5 | 1-8 | 2-1 | 2-6 | 3-1 | 3-8 | 4-3 | 4-10 | 5-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 |
| 125.00 | 0-6 | 0-7 | 0-9 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 | 1-11 | 2-1 |
| 150.00 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 2-1 | 2-5 | 2-8 | 2-10 | 3-0 |
| 175.00 | 1-0 | 1-2 | 1-6 | 1-11 | 2-4 | 2-10 | 3-4 | 3-7 | 3-10 | 4-1 |
| 200.00 | 1-3 | 1-7 | 2-0 | 2-6 | 3-1 | 3-8 | 4-4 | 4-8 | 5-0 | 5-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 |
| 175.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 200.00 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 |
| 225.00 | 2-4 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 |
| 250.00 | 2-11 | 3-3 | 3-7 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-7 | 5-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 |
| 150.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-2 |
| 175.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-9 | 3-11 |
| 225.00 | 2-7 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 4-11 |
| 250.00 | 3-2 | 3-7 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 |
| 175.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 200.00 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 |
| 225.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 |
| 250.00 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 |
| 275.00 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 |
| 300.00 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-1 | 7-4 | 7-7 |
| 325.00 | 6-3 | 6-7 | 6-11 | 7-3 | 7-6 | 7-10 | 8-1 | 8-4 | 8-7 | 8-11 |
| 350.00 | 7-4 | 7-8 | 8-0 | 8-4 | 8-9 | 9-1 | 9-4 | 9-8 | 10-0 | 10-4 |
| 375.00 | 8-4 | 8-10 | 9-3 | 9-7 | 10-0 | 10-5 | 10-9 | 11-1 | 11-6 | 11-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-5 |
| 225.00 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 |
| 250.00 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 |
| 275.00 | 4-8 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 | 6-2 | 6-5 | 6-6 |
| 300.00 | 5-7 | 5-10 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-9 |
| 325.00 | 6-7 | 6-11 | 7-3 | 7-6 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-2 |
| 350.00 | 7-7 | 8-0 | 8-4 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-7 |
| 375.00 | 8-9 | 9-2 | 9-7 | 10-0 | 10-5 | 10-10 | 11-2 | 11-7 | 11-11 | 12-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 |
| 225.00 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 |
| 250.00 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 |
| 275.00 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 |
| 300.00 | 5-11 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 |
| 325.00 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 |
| 350.00 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-9 |
| 375.00 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-4 | 10-7 | 10-10 | 11-0 | 11-3 |
| 400.00 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-9 |
| 425.00 | 11-10 | 12-2 | 12-5 | 12-9 | 13-0 | 13-4 | 13-7 | 13-10 | 14-2 | 14-5 |
| 450.00 | 13-3 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-10 | 16-2 |
| 475.00 | 14-9 | 15-2 | 15-6 | 15-11 | 16-3 | 16-8 | 17-0 | 17-4 | 17-8 | 18-0 |
| 500.00 | 16-4 | 16-9 | 17-3 | 17-7 | 18-0 | 18-5 | 18-10 | 19-2 | 19-7 | 19-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 |
| 250.00 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 |
| 275.00 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 |
| 300.00 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 |
| 325.00 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 |
| 350.00 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 |
| 375.00 | 9-5 | 9-8 | 9-11 | 10-2 | 10-4 | 10-7 | 10-10 | 11-0 | 11-3 | 11-5 |
| 400.00 | 10-9 | 11-0 | 11-3 | 11-6 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-0 |
| 425.00 | 12-1 | 12-5 | 12-9 | 13-0 | 13-4 | 13-7 | 13-11 | 14-2 | 14-6 | 14-9 |
| 450.00 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-11 | 16-3 | 16-6 |
| 475.00 | 15-1 | 15-6 | 15-11 | 16-3 | 16-8 | 17-0 | 17-4 | 17-9 | 18-1 | 18-5 |
| 500.00 | 16-9 | 17-2 | 17-7 | 18-0 | 18-5 | 18-10 | 19-3 | 19-8 | 20-0 | 20-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 |
| 300.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 |
| 325.00 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 |
| 350.00 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 |
| 375.00 | 9-7 | 9-9 | 9-11 | 10-1 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 |
| 400.00 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 |
| 425.00 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 |
| 450.00 | 13-10 | 14-1 | 14-3 | 14-6 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 |
| 475.00 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-7 | 16-10 | 17-1 | 17-4 | 17-6 |
| 500.00 | 17-1 | 17-4 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 |
| 525.00 | 18-10 | 19-2 | 19-5 | 19-9 | 20-0 | 20-4 | 20-7 | 20-10 | 21-2 | 21-5 |
| 550.00 | 20-8 | 21-0 | 21-4 | 21-8 | 22-0 | 22-3 | 22-7 | 22-11 | 23-2 | 23-6 |
| 575.00 | 22-7 | 23-0 | 23-4 | 23-8 | 24-0 | 24-4 | 24-8 | 25-0 | 25-4 | 25-8 |
| 600.00 | 24-7 | 25-0 | 25-5 | 25-9 | 26-2 | 26-6 | 26-11 | 27-3 | 27-8 | 28-0 |
| 625.00 | 26-9 | 27-2 | 27-7 | 28-0 | 28-5 | 28-10 | 29-2 | 29-7 | 30-0 | 30-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 |
| 275.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 |
| 300.00 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 325.00 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 |
| 350.00 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 |
| 375.00 | 9-9 | 9-11 | 10-1 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 10-11 | 11-1 |
| 400.00 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 |
| 425.00 | 12-6 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 | 14-3 |
| 450.00 | 14-0 | 14-3 | 14-6 | 14-8 | 14-11 | 15-2 | 15-4 | 15-7 | 15-9 | 16-0 |
| 475.00 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 16-10 | 17-1 | 17-4 | 17-7 | 17-10 |
| 500.00 | 17-4 | 17-7 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-3 | 19-6 | 19-9 |
| 525.00 | 19-1 | 19-5 | 19-9 | 20-0 | 20-4 | 20-7 | 20-11 | 21-2 | 21-6 | 21-9 |
| 550.00 | 21-0 | 21-4 | 21-8 | 22-0 | 22-4 | 22-8 | 22-11 | 23-3 | 23-7 | 23-10 |
| 575.00 | 22-11 | 23-4 | 23-8 | 24-0 | 24-5 | 24-9 | 25-1 | 25-5 | 25-9 | 26-1 |
| 600.00 | 25-0 | 25-5 | 25-9 | 26-2 | 26-7 | 26-11 | 27-4 | 27-8 | 28-1 | 28-5 |
| 625.00 | 27-1 | 27-7 | 28-0 | 28-5 | 28-10 | 29-3 | 29-8 | 30-1 | 30-5 | 30-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 0.65 | 1683 | 0.55 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 0.25 | 2572 | 0.23 | 2774 |
| 30 | 0 | 0 | 0 | 0.52 | 0.3 | 2177 | 0.26 | 2464 |
| 40 | 0 | 0 | 0 | 0.52 | 0.36 | 1799 | 0.3 | 2154 |
| 50 | 0 | 0 | 0 | 0.52 | 0.45 | 1451 | 0.35 | 1847 |
| 60 | 0 | 0 | 0 | 0.52 | 0.56 | 1152 | 0.42 | 1550 |
| 70 | 0 | 0 | 0 | 0.52 | 0.71 | 920 | 0.51 | 1277 |
| 80 | 0 | 0 | 0 | 0.52 | 0.86 | 754 | 0.62 | 1041 |
| 90 | 0 | 0 | 0 | 0.52 | 0.95 | 681 | 0.76 | 855 |
| 100 | 0 | 0 | 0 | 0.52 | 1.03 | 633 | 0.91 | 717 |
| 110 | 0 | 0 | 0 | 0.52 | 1.1 | 590 | 1.05 | 618 |
| 120 | 0 | 0 | 0 | 0.52 | 1.18 | 553 | 1.18 | 553 |
| 130 | 0 | 0 | 0 | 0.52 | 1.25 | 519 | 1.25 | 519 |
| 167 | 0 | 0 | 0 | 0.52 | 1.53 | 426 | 1.53 | 426 |
| 212 | 0 | 0 | 0 | 0.52 | 1.83 | 355 | 1.83 | 355 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 2.42 | 1814 | 2.19 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 1.3 | 1996 | 1.16 | 2251 |
| 30 | 0 | 0 | 0 | 0.52 | 1.51 | 1725 | 1.3 | 1998 |
| 40 | 0 | 0 | 0 | 0.52 | 1.74 | 1498 | 1.47 | 1765 |
| 50 | 0 | 0 | 0 | 0.52 | 1.98 | 1313 | 1.67 | 1558 |
| 60 | 0 | 0 | 0 | 0.52 | 2.23 | 1166 | 1.88 | 1381 |
| 70 | 0 | 0 | 0 | 0.52 | 2.48 | 1050 | 2.11 | 1234 |
| 80 | 0 | 0 | 0 | 0.52 | 2.72 | 957 | 2.34 | 1112 |
| 90 | 0 | 0 | 0 | 0.52 | 2.95 | 881 | 2.57 | 1013 |
| 100 | 0 | 0 | 0 | 0.52 | 3.14 | 828 | 2.79 | 931 |
| 110 | 0 | 0 | 0 | 0.52 | 3.26 | 798 | 3.01 | 863 |
| 120 | 0 | 0 | 0 | 0.52 | 3.38 | 770 | 3.23 | 807 |
| 130 | 0 | 0 | 0 | 0.52 | 3.5 | 744 | 3.43 | 758 |
| 167 | 0 | 0 | 0 | 0.52 | 3.92 | 664 | 3.92 | 664 |
| 212 | 0 | 0 | 0 | 0.52 | 4.41 | 590 | 4.41 | 590 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 5.23 | 1886 | 4.93 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 3.71 | 1577 | 3.35 | 1746 |
| 30 | 0 | 0 | 0 | 0.52 | 4.04 | 1449 | 3.65 | 1606 |
| 40 | 0 | 0 | 0 | 0.52 | 4.36 | 1342 | 3.94 | 1485 |
| 50 | 0 | 0 | 0 | 0.52 | 4.68 | 1252 | 4.24 | 1380 |
| 60 | 0 | 0 | 0 | 0.52 | 4.98 | 1175 | 4.54 | 1290 |
| 70 | 0 | 0 | 0 | 0.52 | 5.28 | 1109 | 4.83 | 1213 |
| 80 | 0 | 0 | 0 | 0.52 | 5.57 | 1051 | 5.11 | 1145 |
| 90 | 0 | 0 | 0 | 0.52 | 5.85 | 1001 | 5.39 | 1086 |
| 100 | 0 | 0 | 0 | 0.52 | 6.12 | 957 | 5.67 | 1034 |
| 110 | 0 | 0 | 0 | 0.52 | 6.36 | 922 | 5.93 | 988 |
| 120 | 0 | 0 | 0 | 0.52 | 6.51 | 901 | 6.19 | 947 |
| 130 | 0 | 0 | 0 | 0.52 | 6.65 | 881 | 6.44 | 910 |
| 167 | 0 | 0 | 0 | 0.52 | 7.19 | 815 | 7.19 | 816 |
| 212 | 0 | 0 | 0 | 0.52 | 7.82 | 750 | 7.82 | 750 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 9.11 | 1926 | 8.77 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 7.45 | 1397 | 7 | 1487 |
| 30 | 0 | 0 | 0 | 0.52 | 7.81 | 1333 | 7.35 | 1418 |
| 40 | 0 | 0 | 0 | 0.52 | 8.16 | 1276 | 7.68 | 1355 |
| 50 | 0 | 0 | 0 | 0.52 | 8.5 | 1225 | 8.02 | 1299 |
| 60 | 0 | 0 | 0 | 0.52 | 8.84 | 1179 | 8.34 | 1249 |
| 70 | 0 | 0 | 0 | 0.52 | 9.16 | 1138 | 8.66 | 1203 |
| 80 | 0 | 0 | 0 | 0.52 | 9.47 | 1100 | 8.98 | 1161 |
| 90 | 0 | 0 | 0 | 0.52 | 9.78 | 1066 | 9.28 | 1123 |
| 100 | 0 | 0 | 0 | 0.52 | 10.08 | 1034 | 9.58 | 1088 |
| 110 | 0 | 0 | 0 | 0.52 | 10.38 | 1005 | 9.87 | 1056 |
| 120 | 0 | 0 | 0 | 0.52 | 10.61 | 983 | 10.16 | 1026 |
| 130 | 0 | 0 | 0 | 0.52 | 10.78 | 968 | 10.44 | 998 |
| 167 | 0 | 0 | 0 | 0.52 | 11.4 | 915 | 11.39 | 916 |
| 212 | 0 | 0 | 0 | 0.52 | 12.13 | 860 | 12.12 | 861 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 14.09 | 1949 | 13.73 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 12.37 | 1317 | 11.89 | 1370 |
| 30 | 0 | 0 | 0 | 0.52 | 12.74 | 1279 | 12.24 | 1330 |
| 40 | 0 | 0 | 0 | 0.52 | 13.09 | 1244 | 12.59 | 1294 |
| 50 | 0 | 0 | 0 | 0.52 | 13.45 | 1212 | 12.94 | 1259 |
| 60 | 0 | 0 | 0 | 0.52 | 13.79 | 1182 | 13.28 | 1227 |
| 70 | 0 | 0 | 0 | 0.52 | 14.13 | 1154 | 13.61 | 1198 |
| 80 | 0 | 0 | 0 | 0.52 | 14.46 | 1128 | 13.94 | 1170 |
| 90 | 0 | 0 | 0 | 0.52 | 14.79 | 1103 | 14.26 | 1143 |
| 100 | 0 | 0 | 0 | 0.52 | 15.1 | 1080 | 14.57 | 1119 |
| 110 | 0 | 0 | 0 | 0.52 | 15.42 | 1058 | 14.89 | 1096 |
| 120 | 0 | 0 | 0 | 0.52 | 15.73 | 1037 | 15.19 | 1074 |
| 130 | 0 | 0 | 0 | 0.52 | 15.92 | 1025 | 15.49 | 1053 |
| 167 | 0 | 0 | 0 | 0.52 | 16.6 | 983 | 16.57 | 985 |
| 212 | 0 | 0 | 0 | 0.52 | 17.41 | 938 | 17.4 | 938 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-2 | 1-5 | 1-9 | 2-0 | 2-4 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-7 | 1-11 | 2-4 | 2-9 | 3-3 |
| 200.00 | 0-11 | 1-1 | 1-2 | 1-5 | 1-8 | 2-0 | 2-6 | 3-1 | 3-8 | 4-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-11 | 1-1 | 1-4 | 1-6 | 1-7 | 1-9 |
| 150.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 1-11 | 2-2 | 2-4 | 2-6 |
| 175.00 | 0-9 | 0-11 | 1-1 | 1-4 | 1-9 | 2-2 | 2-8 | 2-11 | 3-2 | 3-5 |
| 200.00 | 1-0 | 1-2 | 1-5 | 1-10 | 2-3 | 2-10 | 3-5 | 3-10 | 4-1 | 4-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 |
| 175.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 |
| 200.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-0 |
| 225.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-5 | 2-8 | 3-0 | 3-3 | 3-6 | 3-10 |
| 250.00 | 1-10 | 2-0 | 2-4 | 2-7 | 2-11 | 3-4 | 3-8 | 4-0 | 4-4 | 4-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 |
| 200.00 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-3 |
| 225.00 | 1-8 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-2 |
| 250.00 | 2-0 | 2-4 | 2-9 | 3-1 | 3-6 | 3-10 | 4-3 | 4-7 | 4-11 | 5-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 175.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 200.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 225.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 |
| 250.00 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 |
| 275.00 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 5-0 |
| 300.00 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 |
| 325.00 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 |
| 350.00 | 4-7 | 5-0 | 5-4 | 5-9 | 6-2 | 6-7 | 7-0 | 7-4 | 7-9 | 8-1 |
| 375.00 | 5-3 | 5-8 | 6-2 | 6-8 | 7-1 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 |
| 175.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 225.00 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 |
| 250.00 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 |
| 275.00 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 |
| 300.00 | 3-9 | 4-0 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-4 |
| 325.00 | 4-4 | 4-9 | 5-1 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-6 |
| 350.00 | 5-1 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-4 | 8-8 |
| 375.00 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 | 8-3 | 8-9 | 9-2 | 9-7 | 9-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 225.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 250.00 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 |
| 275.00 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 |
| 300.00 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 |
| 325.00 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 |
| 350.00 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-10 | 7-1 | 7-4 | 7-7 |
| 375.00 | 6-2 | 6-5 | 6-9 | 7-1 | 7-4 | 7-7 | 7-11 | 8-2 | 8-5 | 8-8 |
| 400.00 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 | 9-3 | 9-7 | 9-10 |
| 425.00 | 7-11 | 8-4 | 8-8 | 9-1 | 9-5 | 9-9 | 10-2 | 10-6 | 10-10 | 11-2 |
| 450.00 | 8-10 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 | 11-4 | 11-9 | 12-2 | 12-6 |
| 475.00 | 9-10 | 10-4 | 10-10 | 11-4 | 11-9 | 12-3 | 12-8 | 13-1 | 13-6 | 13-11 |
| 500.00 | 10-11 | 11-6 | 12-0 | 12-6 | 13-0 | 13-6 | 14-0 | 14-6 | 15-0 | 15-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 225.00 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 250.00 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 |
| 275.00 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-11 |
| 300.00 | 4-2 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 |
| 325.00 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-1 | 6-3 | 6-5 | 6-8 | 6-10 |
| 350.00 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 |
| 375.00 | 6-7 | 6-10 | 7-2 | 7-6 | 7-9 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 |
| 400.00 | 7-5 | 7-10 | 8-2 | 8-6 | 8-10 | 9-2 | 9-6 | 9-9 | 10-1 | 10-5 |
| 425.00 | 8-5 | 8-10 | 9-3 | 9-7 | 10-0 | 10-4 | 10-8 | 11-1 | 11-5 | 11-9 |
| 450.00 | 9-5 | 9-11 | 10-4 | 10-9 | 11-2 | 11-7 | 12-0 | 12-5 | 12-9 | 13-2 |
| 475.00 | 10-6 | 11-0 | 11-6 | 12-0 | 12-6 | 12-11 | 13-4 | 13-10 | 14-3 | 14-8 |
| 500.00 | 11-8 | 12-3 | 12-9 | 13-3 | 13-10 | 14-4 | 14-10 | 15-4 | 15-9 | 16-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 275.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 |
| 300.00 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 |
| 325.00 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 |
| 350.00 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 |
| 375.00 | 6-8 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 |
| 400.00 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 |
| 425.00 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 | 10-6 | 10-9 |
| 450.00 | 9-8 | 9-11 | 10-2 | 10-6 | 10-9 | 11-0 | 11-3 | 11-7 | 11-10 | 12-1 |
| 475.00 | 10-9 | 11-1 | 11-4 | 11-8 | 12-0 | 12-3 | 12-7 | 12-10 | 13-2 | 13-5 |
| 500.00 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 |
| 525.00 | 13-1 | 13-6 | 13-11 | 14-3 | 14-8 | 15-0 | 15-4 | 15-9 | 16-1 | 16-5 |
| 550.00 | 14-5 | 14-10 | 15-3 | 15-8 | 16-1 | 16-6 | 16-10 | 17-3 | 17-8 | 18-0 |
| 575.00 | 15-9 | 16-2 | 16-8 | 17-1 | 17-7 | 18-0 | 18-5 | 18-10 | 19-3 | 19-8 |
| 600.00 | 17-1 | 17-8 | 18-2 | 18-8 | 19-1 | 19-7 | 20-1 | 20-6 | 21-0 | 21-5 |
| 625.00 | 18-7 | 19-2 | 19-8 | 20-3 | 20-9 | 21-3 | 21-9 | 22-3 | 22-9 | 23-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 |
| 300.00 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 |
| 325.00 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 |
| 350.00 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 |
| 375.00 | 6-11 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-2 | 8-4 | 8-6 | 8-8 |
| 400.00 | 7-11 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 | 9-3 | 9-6 | 9-8 | 9-10 |
| 425.00 | 8-11 | 9-2 | 9-5 | 9-9 | 10-0 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 |
| 450.00 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 | 11-5 | 11-9 | 12-0 | 12-3 | 12-6 |
| 475.00 | 11-2 | 11-6 | 11-10 | 12-2 | 12-5 | 12-9 | 13-1 | 13-4 | 13-8 | 13-11 |
| 500.00 | 12-4 | 12-9 | 13-1 | 13-5 | 13-9 | 14-2 | 14-6 | 14-9 | 15-1 | 15-5 |
| 525.00 | 13-8 | 14-1 | 14-5 | 14-10 | 15-2 | 15-7 | 15-11 | 16-4 | 16-8 | 17-0 |
| 550.00 | 15-0 | 15-5 | 15-10 | 16-3 | 16-8 | 17-1 | 17-6 | 17-11 | 18-3 | 18-8 |
| 575.00 | 16-4 | 16-10 | 17-4 | 17-9 | 18-3 | 18-8 | 19-2 | 19-7 | 20-0 | 20-5 |
| 600.00 | 17-10 | 18-4 | 18-10 | 19-4 | 19-10 | 20-4 | 20-10 | 21-4 | 21-9 | 22-3 |
| 625.00 | 19-4 | 19-11 | 20-6 | 21-0 | 21-7 | 22-1 | 22-7 | 23-1 | 23-7 | 24-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 0.55 | 1999 | 0.44 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 0.22 | 2999 | 0.2 | 3326 |
| 30 | 0 | 0 | 0 | 0.52 | 0.25 | 2594 | 0.22 | 3021 |
| 40 | 0 | 0 | 0 | 0.52 | 0.3 | 2198 | 0.24 | 2712 |
| 50 | 0 | 0 | 0 | 0.52 | 0.36 | 1819 | 0.27 | 2399 |
| 60 | 0 | 0 | 0 | 0.52 | 0.44 | 1469 | 0.31 | 2087 |
| 70 | 0 | 0 | 0 | 0.52 | 0.56 | 1167 | 0.37 | 1780 |
| 80 | 0 | 0 | 0 | 0.52 | 0.7 | 931 | 0.44 | 1485 |
| 90 | 0 | 0 | 0 | 0.52 | 0.79 | 824 | 0.53 | 1218 |
| 100 | 0 | 0 | 0 | 0.52 | 0.85 | 762 | 0.66 | 992 |
| 110 | 0 | 0 | 0 | 0.52 | 0.92 | 705 | 0.8 | 818 |
| 120 | 0 | 0 | 0 | 0.52 | 0.99 | 654 | 0.94 | 690 |
| 130 | 0 | 0 | 0 | 0.52 | 1.07 | 609 | 1.06 | 614 |
| 167 | 0 | 0 | 0 | 0.52 | 1.35 | 483 | 1.34 | 486 |
| 212 | 0 | 0 | 0 | 0.52 | 1.67 | 390 | 1.66 | 391 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 2.03 | 2157 | 1.75 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 1 | 2604 | 0.87 | 2980 |
| 30 | 0 | 0 | 0 | 0.52 | 1.15 | 2266 | 0.96 | 2697 |
| 40 | 0 | 0 | 0 | 0.52 | 1.33 | 1961 | 1.07 | 2420 |
| 50 | 0 | 0 | 0 | 0.52 | 1.53 | 1695 | 1.21 | 2155 |
| 60 | 0 | 0 | 0 | 0.52 | 1.77 | 1473 | 1.36 | 1906 |
| 70 | 0 | 0 | 0 | 0.52 | 2.01 | 1294 | 1.55 | 1681 |
| 80 | 0 | 0 | 0 | 0.52 | 2.26 | 1151 | 1.75 | 1485 |
| 90 | 0 | 0 | 0 | 0.52 | 2.51 | 1037 | 1.97 | 1319 |
| 100 | 0 | 0 | 0 | 0.52 | 2.7 | 962 | 2.2 | 1182 |
| 110 | 0 | 0 | 0 | 0.52 | 2.82 | 922 | 2.43 | 1069 |
| 120 | 0 | 0 | 0 | 0.52 | 2.94 | 884 | 2.66 | 977 |
| 130 | 0 | 0 | 0 | 0.52 | 3.06 | 850 | 2.89 | 901 |
| 167 | 0 | 0 | 0 | 0.52 | 3.5 | 743 | 3.49 | 746 |
| 212 | 0 | 0 | 0 | 0.52 | 4.02 | 648 | 4 | 650 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 4.35 | 2268 | 3.94 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 2.69 | 2176 | 2.32 | 2521 |
| 30 | 0 | 0 | 0 | 0.52 | 2.99 | 1956 | 2.55 | 2298 |
| 40 | 0 | 0 | 0 | 0.52 | 3.31 | 1768 | 2.79 | 2094 |
| 50 | 0 | 0 | 0 | 0.52 | 3.64 | 1609 | 3.06 | 1910 |
| 60 | 0 | 0 | 0 | 0.52 | 3.96 | 1477 | 3.35 | 1748 |
| 70 | 0 | 0 | 0 | 0.52 | 4.29 | 1365 | 3.64 | 1607 |
| 80 | 0 | 0 | 0 | 0.52 | 4.61 | 1271 | 3.94 | 1485 |
| 90 | 0 | 0 | 0 | 0.52 | 4.91 | 1192 | 4.24 | 1380 |
| 100 | 0 | 0 | 0 | 0.52 | 5.22 | 1123 | 4.54 | 1289 |
| 110 | 0 | 0 | 0 | 0.52 | 5.48 | 1069 | 4.83 | 1211 |
| 120 | 0 | 0 | 0 | 0.52 | 5.64 | 1039 | 5.12 | 1144 |
| 130 | 0 | 0 | 0 | 0.52 | 5.79 | 1011 | 5.4 | 1084 |
| 167 | 0 | 0 | 0 | 0.52 | 6.36 | 921 | 6.34 | 925 |
| 212 | 0 | 0 | 0 | 0.52 | 7.03 | 834 | 7.01 | 837 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 7.5 | 2338 | 7.01 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 5.49 | 1896 | 4.88 | 2133 |
| 30 | 0 | 0 | 0 | 0.52 | 5.89 | 1769 | 5.23 | 1990 |
| 40 | 0 | 0 | 0 | 0.52 | 6.28 | 1658 | 5.58 | 1864 |
| 50 | 0 | 0 | 0 | 0.52 | 6.66 | 1563 | 5.94 | 1751 |
| 60 | 0 | 0 | 0 | 0.52 | 7.04 | 1479 | 6.3 | 1651 |
| 70 | 0 | 0 | 0 | 0.52 | 7.41 | 1405 | 6.66 | 1563 |
| 80 | 0 | 0 | 0 | 0.52 | 7.77 | 1341 | 7.01 | 1485 |
| 90 | 0 | 0 | 0 | 0.52 | 8.12 | 1283 | 7.36 | 1415 |
| 100 | 0 | 0 | 0 | 0.52 | 8.46 | 1231 | 7.7 | 1352 |
| 110 | 0 | 0 | 0 | 0.52 | 8.8 | 1185 | 8.04 | 1296 |
| 120 | 0 | 0 | 0 | 0.52 | 9.09 | 1147 | 8.37 | 1245 |
| 130 | 0 | 0 | 0 | 0.52 | 9.27 | 1124 | 8.69 | 1200 |
| 167 | 0 | 0 | 0 | 0.52 | 9.94 | 1049 | 9.82 | 1062 |
| 212 | 0 | 0 | 0 | 0.52 | 10.73 | 972 | 10.7 | 974 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 11.51 | 2383 | 10.97 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 9.32 | 1745 | 8.58 | 1895 |
| 30 | 0 | 0 | 0 | 0.52 | 9.76 | 1668 | 8.99 | 1809 |
| 40 | 0 | 0 | 0 | 0.52 | 10.18 | 1599 | 9.4 | 1731 |
| 50 | 0 | 0 | 0 | 0.52 | 10.59 | 1537 | 9.8 | 1661 |
| 60 | 0 | 0 | 0 | 0.52 | 11 | 1480 | 10.2 | 1597 |
| 70 | 0 | 0 | 0 | 0.52 | 11.39 | 1429 | 10.58 | 1538 |
| 80 | 0 | 0 | 0 | 0.52 | 11.78 | 1382 | 10.97 | 1485 |
| 90 | 0 | 0 | 0 | 0.52 | 12.16 | 1340 | 11.34 | 1436 |
| 100 | 0 | 0 | 0 | 0.52 | 12.53 | 1300 | 11.71 | 1390 |
| 110 | 0 | 0 | 0 | 0.52 | 12.89 | 1264 | 12.08 | 1349 |
| 120 | 0 | 0 | 0 | 0.52 | 13.25 | 1230 | 12.43 | 1310 |
| 130 | 0 | 0 | 0 | 0.52 | 13.53 | 1205 | 12.78 | 1275 |
| 167 | 0 | 0 | 0 | 0.52 | 14.28 | 1142 | 14.03 | 1162 |
| 212 | 0 | 0 | 0 | 0.52 | 15.17 | 1075 | 15.14 | 1077 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-9 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-5 |
| 200.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-9 | 2-2 | 2-7 | 3-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 1-9 | 1-11 | 2-1 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-2 | 2-5 | 2-7 | 2-10 |
| 200.00 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-3 | 2-10 | 3-2 | 3-5 | 3-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.148

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 |
| 200.00 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 |
| 225.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-3 | 2-6 | 2-9 | 3-1 |
| 250.00 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-9 | 3-1 | 3-5 | 3-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-1 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 175.00 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-2 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-8 | 2-10 |
| 225.00 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-7 | 2-10 | 3-2 | 3-5 | 3-7 |
| 250.00 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 | 3-2 | 3-6 | 3-11 | 4-3 | 4-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 200.00 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 |
| 225.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 250.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 |
| 275.00 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 |
| 300.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 |
| 325.00 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 |
| 350.00 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 | 5-0 | 5-4 | 5-9 | 6-2 | 6-7 |
| 375.00 | 3-8 | 4-0 | 4-4 | 4-9 | 5-3 | 5-8 | 6-2 | 6-8 | 7-1 | 7-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 |
| 175.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 200.00 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 |
| 225.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 250.00 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 |
| 275.00 | 2-3 | 2-6 | 2-9 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-5 | 4-7 |
| 300.00 | 2-8 | 3-0 | 3-4 | 3-8 | 4-0 | 4-3 | 4-7 | 4-11 | 5-3 | 5-6 |
| 325.00 | 3-2 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 | 6-5 |
| 350.00 | 3-8 | 4-1 | 4-6 | 4-11 | 5-5 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 |
| 375.00 | 4-2 | 4-8 | 5-2 | 5-8 | 6-2 | 6-8 | 7-2 | 7-8 | 8-2 | 8-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 225.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 |
| 250.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 |
| 275.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 300.00 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 |
| 325.00 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 |
| 350.00 | 3-9 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 |
| 375.00 | 4-3 | 4-7 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 |
| 400.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 |
| 425.00 | 5-6 | 5-11 | 6-4 | 6-9 | 7-1 | 7-6 | 7-11 | 8-4 | 8-8 | 9-1 |
| 450.00 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-5 | 8-11 | 9-4 | 9-9 | 10-2 |
| 475.00 | 6-11 | 7-4 | 7-11 | 8-5 | 8-11 | 9-5 | 9-11 | 10-5 | 10-10 | 11-4 |
| 500.00 | 7-7 | 8-2 | 8-9 | 9-3 | 9-10 | 10-5 | 11-0 | 11-6 | 12-0 | 12-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 |
| 250.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 |
| 275.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 300.00 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 |
| 325.00 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 |
| 350.00 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-3 | 6-6 | 6-9 |
| 375.00 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 |
| 400.00 | 5-6 | 5-11 | 6-3 | 6-8 | 7-0 | 7-5 | 7-9 | 8-1 | 8-6 | 8-10 |
| 425.00 | 6-2 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 | 9-2 | 9-7 | 9-11 |
| 450.00 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-5 | 9-10 | 10-3 | 10-9 | 11-2 |
| 475.00 | 7-9 | 8-4 | 8-10 | 9-5 | 9-11 | 10-5 | 11-0 | 11-5 | 11-11 | 12-5 |
| 500.00 | 8-7 | 9-2 | 9-10 | 10-5 | 11-0 | 11-7 | 12-2 | 12-8 | 13-3 | 13-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 275.00 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-8 |
| 300.00 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-3 | 4-4 |
| 325.00 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 |
| 350.00 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 |
| 375.00 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-5 | 6-7 | 6-9 |
| 400.00 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 |
| 425.00 | 6-2 | 6-6 | 6-9 | 7-1 | 7-4 | 7-8 | 7-11 | 8-2 | 8-6 | 8-9 |
| 450.00 | 6-11 | 7-3 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 | 9-2 | 9-6 | 9-9 |
| 475.00 | 7-9 | 8-1 | 8-6 | 8-10 | 9-2 | 9-7 | 9-11 | 10-3 | 10-7 | 10-11 |
| 500.00 | 8-7 | 9-0 | 9-5 | 9-10 | 10-2 | 10-7 | 11-0 | 11-4 | 11-9 | 12-1 |
| 525.00 | 9-6 | 9-11 | 10-4 | 10-10 | 11-3 | 11-8 | 12-1 | 12-6 | 12-11 | 13-4 |
| 550.00 | 10-5 | 10-11 | 11-4 | 11-10 | 12-4 | 12-10 | 13-3 | 13-9 | 14-2 | 14-7 |
| 575.00 | 11-4 | 11-11 | 12-5 | 13-0 | 13-6 | 14-0 | 14-6 | 15-0 | 15-6 | 16-0 |
| 600.00 | 12-4 | 12-11 | 13-6 | 14-1 | 14-8 | 15-3 | 15-10 | 16-4 | 16-10 | 17-5 |
| 625.00 | 13-5 | 14-1 | 14-8 | 15-4 | 15-11 | 16-7 | 17-2 | 17-9 | 18-4 | 18-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 |
| 275.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-11 |
| 300.00 | 3-4 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 |
| 325.00 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 |
| 350.00 | 4-7 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 | 5-11 | 6-2 | 6-4 |
| 375.00 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-5 | 6-7 | 6-10 | 7-1 | 7-3 |
| 400.00 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 |
| 425.00 | 6-9 | 7-1 | 7-4 | 7-8 | 7-11 | 8-3 | 8-6 | 8-9 | 9-1 | 9-4 |
| 450.00 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 | 9-6 | 9-10 | 10-2 | 10-5 |
| 475.00 | 8-5 | 8-10 | 9-2 | 9-7 | 9-11 | 10-3 | 10-8 | 11-0 | 11-4 | 11-8 |
| 500.00 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 | 11-5 | 11-9 | 12-2 | 12-6 | 12-11 |
| 525.00 | 10-3 | 10-9 | 11-3 | 11-8 | 12-2 | 12-7 | 13-0 | 13-5 | 13-10 | 14-3 |
| 550.00 | 11-3 | 11-10 | 12-4 | 12-10 | 13-4 | 13-9 | 14-3 | 14-9 | 15-2 | 15-7 |
| 575.00 | 12-4 | 12-11 | 13-6 | 14-0 | 14-7 | 15-1 | 15-7 | 16-1 | 16-7 | 17-1 |
| 600.00 | 13-5 | 14-1 | 14-8 | 15-3 | 15-10 | 16-5 | 17-0 | 17-6 | 18-1 | 18-7 |
| 625.00 | 14-7 | 15-3 | 15-11 | 16-7 | 17-2 | 17-10 | 18-5 | 19-0 | 19-7 | 20-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 0.47 | 2311 | 0.36 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 0.19 | 3379 | 0.17 | 3841 |
| 30 | 0 | 0 | 0 | 0.52 | 0.22 | 2969 | 0.18 | 3543 |
| 40 | 0 | 0 | 0 | 0.52 | 0.25 | 2565 | 0.2 | 3239 |
| 50 | 0 | 0 | 0 | 0.52 | 0.3 | 2170 | 0.22 | 2930 |
| 60 | 0 | 0 | 0 | 0.52 | 0.36 | 1793 | 0.25 | 2618 |
| 70 | 0 | 0 | 0 | 0.52 | 0.45 | 1445 | 0.28 | 2303 |
| 80 | 0 | 0 | 0 | 0.52 | 0.57 | 1148 | 0.33 | 1990 |
| 90 | 0 | 0 | 0 | 0.52 | 0.66 | 988 | 0.39 | 1684 |
| 100 | 0 | 0 | 0 | 0.52 | 0.71 | 913 | 0.47 | 1395 |
| 110 | 0 | 0 | 0 | 0.52 | 0.77 | 843 | 0.57 | 1139 |
| 120 | 0 | 0 | 0 | 0.52 | 0.83 | 779 | 0.7 | 929 |
| 130 | 0 | 0 | 0 | 0.52 | 0.9 | 720 | 0.84 | 770 |
| 167 | 0 | 0 | 0 | 0.52 | 1.17 | 554 | 1.16 | 563 |
| 212 | 0 | 0 | 0 | 0.52 | 1.51 | 431 | 1.49 | 436 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 1.77 | 2477 | 1.46 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 0.84 | 3108 | 0.72 | 3604 |
| 30 | 0 | 0 | 0 | 0.52 | 0.95 | 2739 | 0.78 | 3317 |
| 40 | 0 | 0 | 0 | 0.52 | 1.09 | 2391 | 0.86 | 3029 |
| 50 | 0 | 0 | 0 | 0.52 | 1.25 | 2072 | 0.95 | 2743 |
| 60 | 0 | 0 | 0 | 0.52 | 1.45 | 1790 | 1.06 | 2462 |
| 70 | 0 | 0 | 0 | 0.52 | 1.68 | 1552 | 1.19 | 2193 |
| 80 | 0 | 0 | 0 | 0.52 | 1.92 | 1357 | 1.34 | 1940 |
| 90 | 0 | 0 | 0 | 0.52 | 2.17 | 1201 | 1.52 | 1710 |
| 100 | 0 | 0 | 0 | 0.52 | 2.36 | 1100 | 1.72 | 1509 |
| 110 | 0 | 0 | 0 | 0.52 | 2.48 | 1050 | 1.94 | 1338 |
| 120 | 0 | 0 | 0 | 0.52 | 2.59 | 1003 | 2.17 | 1197 |
| 130 | 0 | 0 | 0 | 0.52 | 2.71 | 959 | 2.41 | 1081 |
| 167 | 0 | 0 | 0 | 0.52 | 3.15 | 825 | 3.12 | 834 |
| 212 | 0 | 0 | 0 | 0.52 | 3.68 | 707 | 3.65 | 712 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 3.77 | 2616 | 3.29 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 2.12 | 2754 | 1.8 | 3253 |
| 30 | 0 | 0 | 0 | 0.52 | 2.37 | 2464 | 1.95 | 2993 |
| 40 | 0 | 0 | 0 | 0.52 | 2.65 | 2205 | 2.13 | 2742 |
| 50 | 0 | 0 | 0 | 0.52 | 2.96 | 1980 | 2.34 | 2503 |
| 60 | 0 | 0 | 0 | 0.52 | 3.27 | 1788 | 2.57 | 2280 |
| 70 | 0 | 0 | 0 | 0.52 | 3.6 | 1627 | 2.82 | 2076 |
| 80 | 0 | 0 | 0 | 0.52 | 3.93 | 1491 | 3.09 | 1893 |
| 90 | 0 | 0 | 0 | 0.52 | 4.25 | 1378 | 3.38 | 1732 |
| 100 | 0 | 0 | 0 | 0.52 | 4.57 | 1282 | 3.68 | 1592 |
| 110 | 0 | 0 | 0 | 0.52 | 4.85 | 1207 | 3.98 | 1472 |
| 120 | 0 | 0 | 0 | 0.52 | 5.01 | 1170 | 4.28 | 1368 |
| 130 | 0 | 0 | 0 | 0.52 | 5.16 | 1134 | 4.58 | 1279 |
| 167 | 0 | 0 | 0 | 0.52 | 5.74 | 1020 | 5.63 | 1040 |
| 212 | 0 | 0 | 0 | 0.52 | 6.43 | 911 | 6.39 | 917 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 6.46 | 2715 | 5.84 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 4.26 | 2442 | 3.63 | 2867 |
| 30 | 0 | 0 | 0 | 0.52 | 4.64 | 2242 | 3.91 | 2659 |
| 40 | 0 | 0 | 0 | 0.52 | 5.03 | 2067 | 4.22 | 2466 |
| 50 | 0 | 0 | 0 | 0.52 | 5.43 | 1917 | 4.55 | 2289 |
| 60 | 0 | 0 | 0 | 0.52 | 5.83 | 1787 | 4.89 | 2130 |
| 70 | 0 | 0 | 0 | 0.52 | 6.22 | 1674 | 5.24 | 1986 |
| 80 | 0 | 0 | 0 | 0.52 | 6.61 | 1576 | 5.6 | 1859 |
| 90 | 0 | 0 | 0 | 0.52 | 6.98 | 1491 | 5.96 | 1746 |
| 100 | 0 | 0 | 0 | 0.52 | 7.35 | 1416 | 6.32 | 1647 |
| 110 | 0 | 0 | 0 | 0.52 | 7.72 | 1350 | 6.68 | 1558 |
| 120 | 0 | 0 | 0 | 0.52 | 8.05 | 1295 | 7.04 | 1480 |
| 130 | 0 | 0 | 0 | 0.52 | 8.24 | 1265 | 7.38 | 1410 |
| 167 | 0 | 0 | 0 | 0.52 | 8.93 | 1167 | 8.62 | 1209 |
| 212 | 0 | 0 | 0 | 0.52 | 9.75 | 1069 | 9.7 | 1075 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.876 | 9.84 | 2784 | 9.14 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 7.3 | 2228 | 6.4 | 2542 |
| 30 | 0 | 0 | 0 | 0.52 | 7.76 | 2096 | 6.79 | 2394 |
| 40 | 0 | 0 | 0 | 0.52 | 8.22 | 1979 | 7.2 | 2259 |
| 50 | 0 | 0 | 0 | 0.52 | 8.67 | 1877 | 7.61 | 2137 |
| 60 | 0 | 0 | 0 | 0.52 | 9.11 | 1785 | 8.03 | 2026 |
| 70 | 0 | 0 | 0 | 0.52 | 9.55 | 1704 | 8.44 | 1927 |
| 80 | 0 | 0 | 0 | 0.52 | 9.98 | 1631 | 8.86 | 1837 |
| 90 | 0 | 0 | 0 | 0.52 | 10.4 | 1566 | 9.27 | 1756 |
| 100 | 0 | 0 | 0 | 0.52 | 10.81 | 1507 | 9.67 | 1683 |
| 110 | 0 | 0 | 0 | 0.52 | 11.21 | 1453 | 10.07 | 1616 |
| 120 | 0 | 0 | 0 | 0.52 | 11.6 | 1404 | 10.47 | 1555 |
| 130 | 0 | 0 | 0 | 0.52 | 11.94 | 1364 | 10.85 | 1500 |
| 167 | 0 | 0 | 0 | 0.52 | 12.73 | 1280 | 12.23 | 1332 |
| 212 | 0 | 0 | 0 | 0.52 | 13.67 | 1192 | 13.61 | 1197 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-1 | 1-3 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-7 | 1-9 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 2-0 | 2-2 | 2-4 |
| 200.00 | 0-9 | 0-11 | 1-0 | 1-2 | 1-5 | 1-10 | 2-3 | 2-8 | 2-10 | 3-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 |
| 200.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-6 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-5 | 2-8 | 3-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-5 |
| 175.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-8 | 1-10 | 1-11 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 | 2-6 |
| 225.00 | 1-1 | 1-2 | 1-5 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 | 3-0 | 3-2 |
| 250.00 | 1-4 | 1-6 | 1-8 | 2-0 | 2-3 | 2-7 | 3-0 | 3-5 | 3-8 | 3-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 200.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 |
| 250.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 |
| 275.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 |
| 300.00 | 1-10 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 |
| 325.00 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 |
| 350.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 | 4-3 | 4-7 | 5-0 | 5-5 |
| 375.00 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-5 | 4-10 | 5-3 | 5-9 | 6-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 200.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 |
| 225.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 |
| 250.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 |
| 275.00 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 |
| 300.00 | 2-1 | 2-4 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 4-10 |
| 325.00 | 2-6 | 2-9 | 3-1 | 3-6 | 3-10 | 4-3 | 4-7 | 5-0 | 5-4 | 5-8 |
| 350.00 | 2-11 | 3-3 | 3-7 | 4-0 | 4-5 | 4-11 | 5-4 | 5-9 | 6-3 | 6-7 |
| 375.00 | 3-4 | 3-9 | 4-2 | 4-7 | 5-1 | 5-7 | 6-2 | 6-8 | 7-2 | 7-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 225.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 |
| 250.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 |
| 275.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 300.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 |
| 325.00 | 2-5 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 |
| 350.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 |
| 375.00 | 3-2 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-11 | 5-3 | 5-7 | 5-10 |
| 400.00 | 3-8 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 | 6-8 |
| 425.00 | 4-1 | 4-5 | 4-9 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 |
| 450.00 | 4-7 | 4-11 | 5-4 | 5-9 | 6-2 | 6-8 | 7-1 | 7-7 | 8-0 | 8-5 |
| 475.00 | 5-1 | 5-6 | 5-11 | 6-5 | 6-11 | 7-5 | 7-11 | 8-5 | 8-11 | 9-5 |
| 500.00 | 5-8 | 6-1 | 6-7 | 7-1 | 7-8 | 8-2 | 8-9 | 9-4 | 9-11 | 10-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 225.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 250.00 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 |
| 275.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 |
| 300.00 | 2-5 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 |
| 325.00 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 |
| 350.00 | 3-3 | 3-7 | 3-10 | 4-2 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 |
| 375.00 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 |
| 400.00 | 4-3 | 4-8 | 5-0 | 5-5 | 5-10 | 6-3 | 6-7 | 7-0 | 7-4 | 7-9 |
| 425.00 | 4-10 | 5-3 | 5-8 | 6-2 | 6-7 | 7-0 | 7-5 | 7-11 | 8-4 | 8-9 |
| 450.00 | 5-5 | 5-11 | 6-4 | 6-10 | 7-4 | 7-10 | 8-4 | 8-10 | 9-4 | 9-9 |
| 475.00 | 6-0 | 6-7 | 7-1 | 7-8 | 8-3 | 8-9 | 9-4 | 9-10 | 10-4 | 10-11 |
| 500.00 | 6-8 | 7-3 | 7-10 | 8-6 | 9-1 | 9-9 | 10-4 | 10-11 | 11-6 | 12-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 275.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 |
| 300.00 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 |
| 325.00 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 |
| 350.00 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 |
| 375.00 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 |
| 400.00 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 |
| 425.00 | 4-7 | 4-11 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 |
| 450.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 |
| 475.00 | 5-9 | 6-2 | 6-6 | 6-10 | 7-3 | 7-7 | 8-0 | 8-4 | 8-9 | 9-1 |
| 500.00 | 6-5 | 6-10 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-8 | 10-1 |
| 525.00 | 7-1 | 7-6 | 7-11 | 8-5 | 8-10 | 9-4 | 9-9 | 10-3 | 10-8 | 11-1 |
| 550.00 | 7-9 | 8-3 | 8-9 | 9-3 | 9-9 | 10-3 | 10-9 | 11-3 | 11-8 | 12-2 |
| 575.00 | 8-6 | 9-0 | 9-6 | 10-1 | 10-7 | 11-2 | 11-9 | 12-3 | 12-10 | 13-4 |
| 600.00 | 9-3 | 9-9 | 10-4 | 11-0 | 11-7 | 12-2 | 12-9 | 13-4 | 13-11 | 14-6 |
| 625.00 | 10-0 | 10-7 | 11-3 | 11-11 | 12-7 | 13-2 | 13-10 | 14-6 | 15-1 | 15-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 |
| 275.00 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 |
| 300.00 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-0 |
| 325.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 |
| 350.00 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 |
| 375.00 | 4-1 | 4-4 | 4-7 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 |
| 400.00 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 |
| 425.00 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 | 7-10 | 8-1 |
| 450.00 | 5-11 | 6-3 | 6-8 | 7-0 | 7-5 | 7-9 | 8-1 | 8-5 | 8-9 | 9-1 |
| 475.00 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-7 | 9-0 | 9-5 | 9-9 | 10-1 |
| 500.00 | 7-4 | 7-9 | 8-3 | 8-8 | 9-1 | 9-7 | 10-0 | 10-5 | 10-10 | 11-2 |
| 525.00 | 8-1 | 8-7 | 9-1 | 9-7 | 10-1 | 10-6 | 11-0 | 11-6 | 11-11 | 12-4 |
| 550.00 | 8-10 | 9-5 | 9-11 | 10-6 | 11-0 | 11-7 | 12-1 | 12-7 | 13-1 | 13-7 |
| 575.00 | 9-8 | 10-3 | 10-10 | 11-6 | 12-1 | 12-8 | 13-2 | 13-9 | 14-4 | 14-10 |
| 600.00 | 10-6 | 11-2 | 11-10 | 12-6 | 13-2 | 13-9 | 14-4 | 15-0 | 15-7 | 16-2 |
| 625.00 | 11-5 | 12-2 | 12-10 | 13-7 | 14-3 | 14-11 | 15-7 | 16-3 | 16-11 | 17-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 1.1 | 991 | 1.1 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.65 | 1000 | 0.65 | 1000 |
| 30 | 0 | 0 | 0 | 0.52 | 1.11 | 585 | 1.07 | 605 |
| 40 | 0 | 0 | 0 | 0.52 | 1.25 | 518 | 1.21 | 536 |
| 50 | 0 | 0 | 0 | 0.52 | 1.39 | 468 | 1.34 | 484 |
| 60 | 0 | 0 | 0 | 0.52 | 1.52 | 429 | 1.47 | 443 |
| 70 | 0 | 0 | 0 | 0.52 | 1.63 | 398 | 1.58 | 411 |
| 80 | 0 | 0 | 0 | 0.52 | 1.74 | 374 | 1.7 | 384 |
| 90 | 0 | 0 | 0 | 0.52 | 1.81 | 360 | 1.8 | 361 |
| 100 | 0 | 0 | 0 | 0.52 | 1.87 | 347 | 1.87 | 347 |
| 110 | 0 | 0 | 0 | 0.52 | 1.94 | 336 | 1.94 | 336 |
| 120 | 0 | 0 | 0 | 0.52 | 2 | 326 | 2 | 326 |
| 130 | 0 | 0 | 0 | 0.52 | 2.06 | 316 | 2.06 | 316 |
| 167 | 0 | 0 | 0 | 0.52 | 2.27 | 287 | 2.27 | 287 |
| 212 | 0 | 0 | 0 | 0.52 | 2.51 | 259 | 2.51 | 259 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 4.43 | 991 | 4.39 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 3.89 | 669 | 3.84 | 679 |
| 30 | 0 | 0 | 0 | 0.52 | 4.44 | 587 | 4.36 | 597 |
| 40 | 0 | 0 | 0 | 0.52 | 4.6 | 566 | 4.53 | 575 |
| 50 | 0 | 0 | 0 | 0.52 | 4.77 | 546 | 4.69 | 556 |
| 60 | 0 | 0 | 0 | 0.52 | 4.93 | 529 | 4.85 | 538 |
| 70 | 0 | 0 | 0 | 0.52 | 5.08 | 513 | 5 | 522 |
| 80 | 0 | 0 | 0 | 0.52 | 5.24 | 498 | 5.15 | 507 |
| 90 | 0 | 0 | 0 | 0.52 | 5.37 | 486 | 5.29 | 493 |
| 100 | 0 | 0 | 0 | 0.52 | 5.46 | 478 | 5.43 | 480 |
| 110 | 0 | 0 | 0 | 0.52 | 5.55 | 470 | 5.55 | 470 |
| 120 | 0 | 0 | 0 | 0.52 | 5.64 | 462 | 5.64 | 462 |
| 130 | 0 | 0 | 0 | 0.52 | 5.73 | 455 | 5.73 | 455 |
| 167 | 0 | 0 | 0 | 0.52 | 6.05 | 431 | 6.05 | 431 |
| 212 | 0 | 0 | 0 | 0.52 | 6.42 | 406 | 6.42 | 406 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 9.95 | 995 | 9.9 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 9.41 | 624 | 9.34 | 629 |
| 30 | 0 | 0 | 0 | 0.52 | 9.95 | 590 | 9.87 | 595 |
| 40 | 0 | 0 | 0 | 0.52 | 10.13 | 580 | 10.04 | 585 |
| 50 | 0 | 0 | 0 | 0.52 | 10.31 | 570 | 10.21 | 576 |
| 60 | 0 | 0 | 0 | 0.52 | 10.48 | 561 | 10.38 | 566 |
| 70 | 0 | 0 | 0 | 0.52 | 10.65 | 552 | 10.54 | 558 |
| 80 | 0 | 0 | 0 | 0.52 | 10.81 | 544 | 10.71 | 549 |
| 90 | 0 | 0 | 0 | 0.52 | 10.98 | 536 | 10.87 | 541 |
| 100 | 0 | 0 | 0 | 0.52 | 11.09 | 530 | 11.03 | 533 |
| 110 | 0 | 0 | 0 | 0.52 | 11.19 | 526 | 11.18 | 526 |
| 120 | 0 | 0 | 0 | 0.52 | 11.3 | 521 | 11.3 | 521 |
| 130 | 0 | 0 | 0 | 0.52 | 11.4 | 516 | 11.4 | 516 |
| 167 | 0 | 0 | 0 | 0.52 | 11.78 | 500 | 11.78 | 500 |
| 212 | 0 | 0 | 0 | 0.52 | 12.22 | 482 | 12.22 | 482 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 17.71 | 997 | 17.65 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 17.17 | 610 | 17.09 | 613 |
| 30 | 0 | 0 | 0 | 0.52 | 17.72 | 592 | 17.63 | 595 |
| 40 | 0 | 0 | 0 | 0.52 | 17.9 | 586 | 17.8 | 589 |
| 50 | 0 | 0 | 0 | 0.52 | 18.07 | 580 | 17.97 | 583 |
| 60 | 0 | 0 | 0 | 0.52 | 18.25 | 575 | 18.15 | 578 |
| 70 | 0 | 0 | 0 | 0.52 | 18.43 | 569 | 18.32 | 573 |
| 80 | 0 | 0 | 0 | 0.52 | 18.6 | 564 | 18.49 | 567 |
| 90 | 0 | 0 | 0 | 0.52 | 18.77 | 559 | 18.65 | 562 |
| 100 | 0 | 0 | 0 | 0.52 | 18.9 | 555 | 18.82 | 557 |
| 110 | 0 | 0 | 0 | 0.52 | 19.01 | 552 | 18.99 | 553 |
| 120 | 0 | 0 | 0 | 0.52 | 19.13 | 549 | 19.13 | 549 |
| 130 | 0 | 0 | 0 | 0.52 | 19.24 | 546 | 19.24 | 546 |
| 167 | 0 | 0 | 0 | 0.52 | 19.64 | 535 | 19.64 | 535 |
| 212 | 0 | 0 | 0 | 0.52 | 20.12 | 522 | 20.12 | 522 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 27.76 | 998 | 27.7 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 27.22 | 604 | 27.15 | 606 |
| 30 | 0 | 0 | 0 | 0.52 | 27.77 | 592 | 27.68 | 594 |
| 40 | 0 | 0 | 0 | 0.52 | 27.95 | 589 | 27.85 | 591 |
| 50 | 0 | 0 | 0 | 0.52 | 28.13 | 585 | 28.03 | 587 |
| 60 | 0 | 0 | 0 | 0.52 | 28.31 | 581 | 28.2 | 583 |
| 70 | 0 | 0 | 0 | 0.52 | 28.49 | 578 | 28.38 | 580 |
| 80 | 0 | 0 | 0 | 0.52 | 28.67 | 574 | 28.55 | 577 |
| 90 | 0 | 0 | 0 | 0.52 | 28.84 | 571 | 28.72 | 573 |
| 100 | 0 | 0 | 0 | 0.52 | 28.98 | 568 | 28.89 | 570 |
| 110 | 0 | 0 | 0 | 0.52 | 29.1 | 566 | 29.06 | 567 |
| 120 | 0 | 0 | 0 | 0.52 | 29.22 | 564 | 29.22 | 564 |
| 130 | 0 | 0 | 0 | 0.52 | 29.33 | 562 | 29.33 | 562 |
| 167 | 0 | 0 | 0 | 0.52 | 29.75 | 554 | 29.75 | 554 |
| 212 | 0 | 0 | 0 | 0.52 | 30.26 | 545 | 30.26 | 545 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 100.00 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-10 | 1-11 |
| 125.00 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-0 |
| 150.00 | 2-1 | 2-5 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-4 |
| 175.00 | 2-10 | 3-4 | 3-9 | 4-1 | 4-6 | 4-10 | 5-2 | 5-6 | 5-9 | 5-11 |
| 200.00 | 3-9 | 4-4 | 4-10 | 5-5 | 5-10 | 6-4 | 6-9 | 7-3 | 7-6 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 100.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 125.00 | 1-6 | 1-9 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 |
| 150.00 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 | 3-8 | 3-11 | 4-1 | 4-3 | 4-4 |
| 175.00 | 2-11 | 3-5 | 3-10 | 4-3 | 4-8 | 5-0 | 5-4 | 5-6 | 5-9 | 5-11 |
| 200.00 | 3-10 | 4-5 | 5-0 | 5-7 | 6-1 | 6-7 | 7-0 | 7-3 | 7-6 | 7-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 |
| 150.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 175.00 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 |
| 200.00 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-7 |
| 225.00 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 | 6-11 | 7-0 |
| 250.00 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 |
| 150.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 175.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 200.00 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 |
| 225.00 | 5-5 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 6-11 | 7-0 |
| 250.00 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-6 | 8-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 |
| 175.00 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 |
| 200.00 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 |
| 225.00 | 5-5 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 |
| 250.00 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 |
| 275.00 | 8-2 | 8-3 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 |
| 300.00 | 9-8 | 9-10 | 10-1 | 10-3 | 10-5 | 10-7 | 10-8 | 10-10 | 11-0 | 11-2 |
| 325.00 | 11-5 | 11-7 | 11-9 | 12-0 | 12-2 | 12-5 | 12-7 | 12-9 | 12-11 | 13-2 |
| 350.00 | 13-2 | 13-5 | 13-8 | 13-11 | 14-2 | 14-4 | 14-7 | 14-10 | 15-0 | 15-3 |
| 375.00 | 15-2 | 15-5 | 15-8 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 | 17-3 | 17-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 |
| 175.00 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 |
| 200.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 |
| 225.00 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 |
| 250.00 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 |
| 275.00 | 8-3 | 8-4 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 | 9-4 | 9-5 |
| 300.00 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-1 | 11-2 |
| 325.00 | 11-6 | 11-8 | 11-11 | 12-1 | 12-4 | 12-6 | 12-8 | 12-11 | 13-0 | 13-2 |
| 350.00 | 13-4 | 13-7 | 13-10 | 14-0 | 14-3 | 14-6 | 14-9 | 14-11 | 15-1 | 15-3 |
| 375.00 | 15-3 | 15-7 | 15-10 | 16-1 | 16-5 | 16-8 | 16-11 | 17-2 | 17-4 | 17-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 |
| 225.00 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 |
| 250.00 | 6-10 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 |
| 275.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 |
| 300.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 | 10-8 |
| 325.00 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 |
| 350.00 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 |
| 375.00 | 15-4 | 15-6 | 15-8 | 15-10 | 15-11 | 16-1 | 16-3 | 16-5 | 16-6 | 16-8 |
| 400.00 | 17-5 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 |
| 425.00 | 19-8 | 19-11 | 20-1 | 20-4 | 20-6 | 20-8 | 20-11 | 21-1 | 21-3 | 21-5 |
| 450.00 | 22-1 | 22-4 | 22-7 | 22-9 | 23-0 | 23-2 | 23-5 | 23-8 | 23-10 | 24-1 |
| 475.00 | 24-8 | 24-11 | 25-2 | 25-4 | 25-7 | 25-10 | 26-1 | 26-4 | 26-7 | 26-10 |
| 500.00 | 27-4 | 27-7 | 27-10 | 28-2 | 28-5 | 28-8 | 28-11 | 29-2 | 29-5 | 29-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 |
| 225.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 |
| 250.00 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 |
| 275.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 |
| 300.00 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-7 | 10-7 | 10-8 |
| 325.00 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-2 | 12-3 | 12-5 | 12-6 | 12-6 |
| 350.00 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 |
| 375.00 | 15-5 | 15-7 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 | 16-6 | 16-7 | 16-8 |
| 400.00 | 17-6 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-0 |
| 425.00 | 19-10 | 20-0 | 20-3 | 20-5 | 20-7 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 |
| 450.00 | 22-2 | 22-5 | 22-8 | 22-11 | 23-1 | 23-4 | 23-7 | 23-9 | 23-11 | 24-1 |
| 475.00 | 24-9 | 25-0 | 25-3 | 25-6 | 25-9 | 26-0 | 26-3 | 26-6 | 26-8 | 26-10 |
| 500.00 | 27-5 | 27-9 | 28-0 | 28-3 | 28-7 | 28-10 | 29-1 | 29-5 | 29-7 | 29-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 |
| 275.00 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 |
| 300.00 | 9-11 | 9-11 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 |
| 325.00 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-2 | 12-3 |
| 350.00 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 | 14-3 |
| 375.00 | 15-5 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 |
| 400.00 | 17-7 | 17-8 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-6 | 18-7 |
| 425.00 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-9 | 20-10 | 21-0 |
| 450.00 | 22-3 | 22-5 | 22-7 | 22-8 | 22-10 | 23-0 | 23-1 | 23-3 | 23-5 | 23-6 |
| 475.00 | 24-10 | 25-0 | 25-2 | 25-3 | 25-5 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 |
| 500.00 | 27-6 | 27-8 | 27-10 | 28-0 | 28-2 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 |
| 525.00 | 30-4 | 30-6 | 30-9 | 30-11 | 31-1 | 31-4 | 31-6 | 31-8 | 31-10 | 32-1 |
| 550.00 | 33-4 | 33-6 | 33-9 | 33-11 | 34-2 | 34-4 | 34-7 | 34-9 | 35-0 | 35-2 |
| 575.00 | 36-5 | 36-8 | 36-11 | 37-1 | 37-4 | 37-7 | 37-10 | 38-0 | 38-3 | 38-6 |
| 600.00 | 39-8 | 39-11 | 40-2 | 40-5 | 40-8 | 40-11 | 41-2 | 41-5 | 41-8 | 41-11 |
| 625.00 | 43-1 | 43-4 | 43-7 | 43-11 | 44-2 | 44-5 | 44-9 | 45-0 | 45-3 | 45-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 |
| 275.00 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 |
| 300.00 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 |
| 325.00 | 11-8 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-3 |
| 350.00 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 |
| 375.00 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 |
| 400.00 | 17-8 | 17-9 | 17-10 | 18-0 | 18-1 | 18-2 | 18-4 | 18-5 | 18-6 | 18-7 |
| 425.00 | 19-11 | 20-1 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 | 20-10 | 20-11 | 21-0 |
| 450.00 | 22-4 | 22-6 | 22-7 | 22-9 | 22-11 | 23-1 | 23-2 | 23-4 | 23-5 | 23-7 |
| 475.00 | 24-11 | 25-1 | 25-3 | 25-5 | 25-6 | 25-8 | 25-10 | 26-0 | 26-2 | 26-3 |
| 500.00 | 27-7 | 27-9 | 27-11 | 28-2 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-1 |
| 525.00 | 30-5 | 30-8 | 30-10 | 31-0 | 31-3 | 31-5 | 31-7 | 31-10 | 32-0 | 32-1 |
| 550.00 | 33-5 | 33-8 | 33-10 | 34-1 | 34-3 | 34-6 | 34-9 | 34-11 | 35-1 | 35-3 |
| 575.00 | 36-6 | 36-9 | 37-0 | 37-3 | 37-6 | 37-9 | 38-0 | 38-2 | 38-5 | 38-6 |
| 600.00 | 39-10 | 40-1 | 40-4 | 40-7 | 40-10 | 41-1 | 41-4 | 41-7 | 41-10 | 42-0 |
| 625.00 | 43-2 | 43-6 | 43-9 | 44-1 | 44-4 | 44-7 | 44-11 | 45-2 | 45-5 | 45-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 0.74 | 1475 | 0.73 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 0.36 | 1821 | 0.36 | 1821 |
| 30 | 0 | 0 | 0 | 0.52 | 0.68 | 958 | 0.63 | 1032 |
| 40 | 0 | 0 | 0 | 0.52 | 0.83 | 781 | 0.76 | 850 |
| 50 | 0 | 0 | 0 | 0.52 | 0.99 | 657 | 0.91 | 715 |
| 60 | 0 | 0 | 0 | 0.52 | 1.14 | 571 | 1.05 | 617 |
| 70 | 0 | 0 | 0 | 0.52 | 1.28 | 508 | 1.19 | 545 |
| 80 | 0 | 0 | 0 | 0.52 | 1.41 | 460 | 1.33 | 490 |
| 90 | 0 | 0 | 0 | 0.52 | 1.49 | 436 | 1.45 | 448 |
| 100 | 0 | 0 | 0 | 0.52 | 1.57 | 415 | 1.57 | 415 |
| 110 | 0 | 0 | 0 | 0.52 | 1.64 | 397 | 1.64 | 397 |
| 120 | 0 | 0 | 0 | 0.52 | 1.71 | 381 | 1.71 | 381 |
| 130 | 0 | 0 | 0 | 0.52 | 1.77 | 367 | 1.77 | 367 |
| 167 | 0 | 0 | 0 | 0.52 | 2.01 | 324 | 2.01 | 324 |
| 212 | 0 | 0 | 0 | 0.52 | 2.27 | 287 | 2.27 | 287 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 3 | 1461 | 2.92 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 2.18 | 1193 | 2.08 | 1252 |
| 30 | 0 | 0 | 0 | 0.52 | 2.91 | 895 | 2.76 | 944 |
| 40 | 0 | 0 | 0 | 0.52 | 3.13 | 831 | 2.98 | 875 |
| 50 | 0 | 0 | 0 | 0.52 | 3.35 | 777 | 3.19 | 817 |
| 60 | 0 | 0 | 0 | 0.52 | 3.56 | 731 | 3.39 | 767 |
| 70 | 0 | 0 | 0 | 0.52 | 3.76 | 693 | 3.59 | 725 |
| 80 | 0 | 0 | 0 | 0.52 | 3.95 | 659 | 3.78 | 689 |
| 90 | 0 | 0 | 0 | 0.52 | 4.14 | 629 | 3.97 | 657 |
| 100 | 0 | 0 | 0 | 0.52 | 4.27 | 610 | 4.15 | 628 |
| 110 | 0 | 0 | 0 | 0.52 | 4.37 | 595 | 4.32 | 603 |
| 120 | 0 | 0 | 0 | 0.52 | 4.48 | 581 | 4.48 | 581 |
| 130 | 0 | 0 | 0 | 0.52 | 4.59 | 568 | 4.59 | 568 |
| 167 | 0 | 0 | 0 | 0.52 | 4.96 | 525 | 4.96 | 525 |
| 212 | 0 | 0 | 0 | 0.52 | 5.39 | 484 | 5.39 | 484 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 6.7 | 1473 | 6.58 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 5.8 | 1010 | 5.63 | 1041 |
| 30 | 0 | 0 | 0 | 0.52 | 6.6 | 889 | 6.4 | 916 |
| 40 | 0 | 0 | 0 | 0.52 | 6.85 | 856 | 6.64 | 883 |
| 50 | 0 | 0 | 0 | 0.52 | 7.09 | 827 | 6.88 | 852 |
| 60 | 0 | 0 | 0 | 0.52 | 7.32 | 801 | 7.11 | 825 |
| 70 | 0 | 0 | 0 | 0.52 | 7.55 | 776 | 7.34 | 799 |
| 80 | 0 | 0 | 0 | 0.52 | 7.78 | 754 | 7.56 | 776 |
| 90 | 0 | 0 | 0 | 0.52 | 8 | 733 | 7.78 | 754 |
| 100 | 0 | 0 | 0 | 0.52 | 8.21 | 714 | 7.99 | 734 |
| 110 | 0 | 0 | 0 | 0.52 | 8.35 | 703 | 8.2 | 716 |
| 120 | 0 | 0 | 0 | 0.52 | 8.48 | 692 | 8.4 | 699 |
| 130 | 0 | 0 | 0 | 0.52 | 8.61 | 682 | 8.6 | 683 |
| 167 | 0 | 0 | 0 | 0.52 | 9.08 | 647 | 9.08 | 647 |
| 212 | 0 | 0 | 0 | 0.52 | 9.62 | 611 | 9.62 | 611 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 11.86 | 1482 | 11.72 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 10.94 | 954 | 10.74 | 971 |
| 30 | 0 | 0 | 0 | 0.52 | 11.75 | 888 | 11.53 | 905 |
| 40 | 0 | 0 | 0 | 0.52 | 12.01 | 869 | 11.78 | 886 |
| 50 | 0 | 0 | 0 | 0.52 | 12.26 | 851 | 12.03 | 868 |
| 60 | 0 | 0 | 0 | 0.52 | 12.51 | 834 | 12.27 | 850 |
| 70 | 0 | 0 | 0 | 0.52 | 12.76 | 818 | 12.52 | 834 |
| 80 | 0 | 0 | 0 | 0.52 | 13 | 803 | 12.75 | 819 |
| 90 | 0 | 0 | 0 | 0.52 | 13.24 | 789 | 12.99 | 804 |
| 100 | 0 | 0 | 0 | 0.52 | 13.48 | 775 | 13.22 | 790 |
| 110 | 0 | 0 | 0 | 0.52 | 13.67 | 764 | 13.45 | 777 |
| 120 | 0 | 0 | 0 | 0.52 | 13.82 | 756 | 13.67 | 764 |
| 130 | 0 | 0 | 0 | 0.52 | 13.96 | 749 | 13.89 | 752 |
| 167 | 0 | 0 | 0 | 0.52 | 14.49 | 722 | 14.49 | 722 |
| 212 | 0 | 0 | 0 | 0.52 | 15.11 | 692 | 15.11 | 692 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 18.5 | 1487 | 18.34 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 17.57 | 930 | 17.36 | 941 |
| 30 | 0 | 0 | 0 | 0.52 | 18.38 | 889 | 18.15 | 900 |
| 40 | 0 | 0 | 0 | 0.52 | 18.65 | 876 | 18.41 | 888 |
| 50 | 0 | 0 | 0 | 0.52 | 18.91 | 864 | 18.66 | 876 |
| 60 | 0 | 0 | 0 | 0.52 | 19.17 | 853 | 18.92 | 864 |
| 70 | 0 | 0 | 0 | 0.52 | 19.43 | 842 | 19.17 | 853 |
| 80 | 0 | 0 | 0 | 0.52 | 19.68 | 831 | 19.41 | 842 |
| 90 | 0 | 0 | 0 | 0.52 | 19.93 | 821 | 19.66 | 832 |
| 100 | 0 | 0 | 0 | 0.52 | 20.18 | 811 | 19.9 | 822 |
| 110 | 0 | 0 | 0 | 0.52 | 20.41 | 801 | 20.14 | 812 |
| 120 | 0 | 0 | 0 | 0.52 | 20.57 | 795 | 20.38 | 803 |
| 130 | 0 | 0 | 0 | 0.52 | 20.72 | 790 | 20.61 | 794 |
| 167 | 0 | 0 | 0 | 0.52 | 21.29 | 769 | 21.29 | 769 |
| 212 | 0 | 0 | 0 | 0.52 | 21.96 | 746 | 21.96 | 746 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 |
| 125.00 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 | 2-7 |
| 150.00 | 1-2 | 1-5 | 1-9 | 2-1 | 2-4 | 2-8 | 3-0 | 3-3 | 3-6 | 3-8 |
| 175.00 | 1-7 | 1-11 | 2-4 | 2-9 | 3-3 | 3-8 | 4-1 | 4-5 | 4-10 | 5-0 |
| 200.00 | 2-1 | 2-6 | 3-1 | 3-8 | 4-3 | 4-9 | 5-4 | 5-10 | 6-3 | 6-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 0-10 | 1-1 | 1-4 | 1-7 | 1-9 | 2-0 | 2-3 | 2-4 | 2-5 | 2-7 |
| 150.00 | 1-3 | 1-6 | 1-10 | 2-3 | 2-7 | 2-11 | 3-2 | 3-4 | 3-6 | 3-8 |
| 175.00 | 1-8 | 2-1 | 2-7 | 3-0 | 3-6 | 3-11 | 4-4 | 4-7 | 4-10 | 5-0 |
| 200.00 | 2-2 | 2-9 | 3-4 | 4-0 | 4-7 | 5-2 | 5-8 | 6-0 | 6-3 | 6-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 150.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 |
| 175.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 |
| 200.00 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 225.00 | 3-2 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-9 | 5-0 | 5-3 | 5-6 |
| 250.00 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 |
| 150.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 175.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 |
| 200.00 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-3 | 4-4 |
| 225.00 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-6 |
| 250.00 | 4-2 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-8 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 |
| 175.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 200.00 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 |
| 225.00 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 |
| 250.00 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 |
| 275.00 | 5-2 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 |
| 300.00 | 6-2 | 6-5 | 6-8 | 6-11 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-2 |
| 325.00 | 7-3 | 7-6 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-2 | 9-5 | 9-7 |
| 350.00 | 8-4 | 8-9 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 |
| 375.00 | 9-7 | 10-0 | 10-5 | 10-9 | 11-1 | 11-6 | 11-10 | 12-2 | 12-6 | 12-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 |
| 200.00 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 |
| 225.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 |
| 250.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 |
| 275.00 | 5-4 | 5-7 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-0 |
| 300.00 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 | 8-4 |
| 325.00 | 7-5 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 | 9-2 | 9-5 | 9-8 | 9-10 |
| 350.00 | 8-8 | 9-0 | 9-4 | 9-8 | 10-0 | 10-3 | 10-7 | 10-11 | 11-2 | 11-4 |
| 375.00 | 9-11 | 10-4 | 10-8 | 11-1 | 11-5 | 11-10 | 12-2 | 12-6 | 12-10 | 13-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 |
| 225.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 250.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 275.00 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 |
| 300.00 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 | 7-0 | 7-2 | 7-4 | 7-5 | 7-7 |
| 325.00 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-10 |
| 350.00 | 8-7 | 8-10 | 9-0 | 9-2 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 | 10-4 |
| 375.00 | 9-11 | 10-2 | 10-4 | 10-7 | 10-9 | 11-0 | 11-2 | 11-5 | 11-7 | 11-10 |
| 400.00 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-5 |
| 425.00 | 12-9 | 13-0 | 13-4 | 13-7 | 13-10 | 14-2 | 14-5 | 14-8 | 14-11 | 15-2 |
| 450.00 | 14-3 | 14-7 | 14-11 | 15-3 | 15-6 | 15-10 | 16-2 | 16-5 | 16-9 | 17-0 |
| 475.00 | 15-11 | 16-3 | 16-7 | 17-0 | 17-4 | 17-8 | 18-0 | 18-4 | 18-8 | 19-0 |
| 500.00 | 17-7 | 18-0 | 18-5 | 18-10 | 19-2 | 19-7 | 19-11 | 20-4 | 20-8 | 21-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 |
| 225.00 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 250.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 275.00 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 |
| 300.00 | 6-5 | 6-7 | 6-9 | 6-11 | 7-0 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 |
| 325.00 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-0 |
| 350.00 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 |
| 375.00 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-10 | 12-0 |
| 400.00 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-8 |
| 425.00 | 13-0 | 13-3 | 13-7 | 13-10 | 14-2 | 14-5 | 14-8 | 14-11 | 15-3 | 15-5 |
| 450.00 | 14-6 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-6 | 16-9 | 17-1 | 17-4 |
| 475.00 | 16-2 | 16-7 | 16-11 | 17-4 | 17-8 | 18-0 | 18-4 | 18-8 | 19-0 | 19-3 |
| 500.00 | 17-11 | 18-4 | 18-9 | 19-2 | 19-7 | 19-11 | 20-4 | 20-8 | 21-1 | 21-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 |
| 275.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 300.00 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 |
| 325.00 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 |
| 350.00 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 |
| 375.00 | 10-1 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 |
| 400.00 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 |
| 425.00 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-7 |
| 450.00 | 14-6 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 | 15-11 | 16-1 | 16-4 |
| 475.00 | 16-2 | 16-5 | 16-7 | 16-10 | 17-1 | 17-4 | 17-6 | 17-9 | 17-11 | 18-2 |
| 500.00 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 |
| 525.00 | 19-9 | 20-0 | 20-4 | 20-7 | 20-10 | 21-2 | 21-5 | 21-8 | 21-11 | 22-3 |
| 550.00 | 21-8 | 22-0 | 22-3 | 22-7 | 22-11 | 23-2 | 23-6 | 23-10 | 24-1 | 24-5 |
| 575.00 | 23-8 | 24-0 | 24-4 | 24-8 | 25-0 | 25-4 | 25-8 | 26-0 | 26-4 | 26-8 |
| 600.00 | 25-9 | 26-2 | 26-6 | 26-11 | 27-3 | 27-7 | 28-0 | 28-4 | 28-8 | 29-0 |
| 625.00 | 28-0 | 28-5 | 28-9 | 29-2 | 29-7 | 30-0 | 30-4 | 30-9 | 31-2 | 31-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 |
| 275.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 |
| 300.00 | 6-6 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 |
| 325.00 | 7-8 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 |
| 350.00 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 10-0 |
| 375.00 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 | 11-6 |
| 400.00 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 |
| 425.00 | 13-1 | 13-3 | 13-6 | 13-8 | 13-10 | 14-0 | 14-3 | 14-5 | 14-7 | 14-9 |
| 450.00 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 | 15-11 | 16-2 | 16-4 | 16-6 |
| 475.00 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-6 | 17-9 | 18-0 | 18-2 | 18-5 |
| 500.00 | 18-1 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 | 20-5 |
| 525.00 | 20-0 | 20-3 | 20-7 | 20-10 | 21-2 | 21-5 | 21-8 | 22-0 | 22-3 | 22-6 |
| 550.00 | 21-11 | 22-3 | 22-7 | 22-11 | 23-2 | 23-6 | 23-10 | 24-1 | 24-5 | 24-9 |
| 575.00 | 24-0 | 24-4 | 24-8 | 25-0 | 25-4 | 25-8 | 26-1 | 26-4 | 26-8 | 27-0 |
| 600.00 | 26-1 | 26-6 | 26-11 | 27-3 | 27-8 | 28-0 | 28-4 | 28-9 | 29-1 | 29-5 |
| 625.00 | 28-4 | 28-9 | 29-2 | 29-7 | 30-0 | 30-5 | 30-9 | 31-2 | 31-7 | 31-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 0.56 | 1949 | 0.55 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.26 | 2459 | 0.26 | 2459 |
| 30 | 0 | 0 | 0 | 0.52 | 0.46 | 1417 | 0.42 | 1554 |
| 40 | 0 | 0 | 0 | 0.52 | 0.58 | 1125 | 0.51 | 1282 |
| 50 | 0 | 0 | 0 | 0.52 | 0.72 | 900 | 0.62 | 1047 |
| 60 | 0 | 0 | 0 | 0.52 | 0.88 | 740 | 0.76 | 861 |
| 70 | 0 | 0 | 0 | 0.52 | 1.03 | 629 | 0.9 | 722 |
| 80 | 0 | 0 | 0 | 0.52 | 1.18 | 550 | 1.05 | 622 |
| 90 | 0 | 0 | 0 | 0.52 | 1.27 | 512 | 1.19 | 548 |
| 100 | 0 | 0 | 0 | 0.52 | 1.35 | 483 | 1.32 | 493 |
| 110 | 0 | 0 | 0 | 0.52 | 1.42 | 457 | 1.42 | 457 |
| 120 | 0 | 0 | 0 | 0.52 | 1.5 | 435 | 1.5 | 435 |
| 130 | 0 | 0 | 0 | 0.52 | 1.57 | 415 | 1.57 | 415 |
| 167 | 0 | 0 | 0 | 0.52 | 1.82 | 358 | 1.82 | 358 |
| 212 | 0 | 0 | 0 | 0.52 | 2.1 | 310 | 2.1 | 310 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 2.29 | 1912 | 2.19 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 1.38 | 1882 | 1.3 | 1996 |
| 30 | 0 | 0 | 0 | 0.52 | 2.08 | 1250 | 1.88 | 1384 |
| 40 | 0 | 0 | 0 | 0.52 | 2.33 | 1116 | 2.1 | 1237 |
| 50 | 0 | 0 | 0 | 0.52 | 2.58 | 1010 | 2.33 | 1115 |
| 60 | 0 | 0 | 0 | 0.52 | 2.81 | 925 | 2.56 | 1016 |
| 70 | 0 | 0 | 0 | 0.52 | 3.04 | 855 | 2.79 | 934 |
| 80 | 0 | 0 | 0 | 0.52 | 3.27 | 797 | 3.01 | 866 |
| 90 | 0 | 0 | 0 | 0.52 | 3.48 | 749 | 3.22 | 809 |
| 100 | 0 | 0 | 0 | 0.52 | 3.64 | 715 | 3.42 | 761 |
| 110 | 0 | 0 | 0 | 0.52 | 3.76 | 693 | 3.62 | 719 |
| 120 | 0 | 0 | 0 | 0.52 | 3.87 | 672 | 3.81 | 683 |
| 130 | 0 | 0 | 0 | 0.52 | 3.99 | 653 | 3.99 | 653 |
| 167 | 0 | 0 | 0 | 0.52 | 4.39 | 593 | 4.39 | 593 |
| 212 | 0 | 0 | 0 | 0.52 | 4.85 | 537 | 4.85 | 537 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 5.11 | 1929 | 4.93 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 3.9 | 1502 | 3.64 | 1606 |
| 30 | 0 | 0 | 0 | 0.52 | 4.85 | 1207 | 4.53 | 1292 |
| 40 | 0 | 0 | 0 | 0.52 | 5.15 | 1136 | 4.82 | 1214 |
| 50 | 0 | 0 | 0 | 0.52 | 5.45 | 1075 | 5.11 | 1147 |
| 60 | 0 | 0 | 0 | 0.52 | 5.73 | 1022 | 5.39 | 1088 |
| 70 | 0 | 0 | 0 | 0.52 | 6.01 | 976 | 5.66 | 1036 |
| 80 | 0 | 0 | 0 | 0.52 | 6.27 | 934 | 5.92 | 989 |
| 90 | 0 | 0 | 0 | 0.52 | 6.53 | 897 | 6.18 | 948 |
| 100 | 0 | 0 | 0 | 0.52 | 6.78 | 864 | 6.43 | 911 |
| 110 | 0 | 0 | 0 | 0.52 | 6.99 | 839 | 6.68 | 878 |
| 120 | 0 | 0 | 0 | 0.52 | 7.13 | 822 | 6.91 | 848 |
| 130 | 0 | 0 | 0 | 0.52 | 7.27 | 806 | 7.15 | 820 |
| 167 | 0 | 0 | 0 | 0.52 | 7.79 | 753 | 7.79 | 753 |
| 212 | 0 | 0 | 0 | 0.52 | 8.39 | 700 | 8.39 | 700 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 9.01 | 1947 | 8.77 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 7.69 | 1354 | 7.34 | 1418 |
| 30 | 0 | 0 | 0 | 0.52 | 8.73 | 1194 | 8.34 | 1250 |
| 40 | 0 | 0 | 0 | 0.52 | 9.05 | 1151 | 8.65 | 1204 |
| 50 | 0 | 0 | 0 | 0.52 | 9.37 | 1112 | 8.97 | 1162 |
| 60 | 0 | 0 | 0 | 0.52 | 9.68 | 1077 | 9.27 | 1124 |
| 70 | 0 | 0 | 0 | 0.52 | 9.98 | 1044 | 9.57 | 1089 |
| 80 | 0 | 0 | 0 | 0.52 | 10.28 | 1014 | 9.86 | 1057 |
| 90 | 0 | 0 | 0 | 0.52 | 10.57 | 987 | 10.15 | 1027 |
| 100 | 0 | 0 | 0 | 0.52 | 10.85 | 961 | 10.43 | 1000 |
| 110 | 0 | 0 | 0 | 0.52 | 11.13 | 937 | 10.71 | 974 |
| 120 | 0 | 0 | 0 | 0.52 | 11.33 | 921 | 10.98 | 950 |
| 130 | 0 | 0 | 0 | 0.52 | 11.5 | 908 | 11.25 | 928 |
| 167 | 0 | 0 | 0 | 0.52 | 12.1 | 863 | 12.09 | 863 |
| 212 | 0 | 0 | 0 | 0.52 | 12.8 | 816 | 12.8 | 816 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 14 | 1961 | 13.73 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 12.64 | 1289 | 12.24 | 1331 |
| 30 | 0 | 0 | 0 | 0.52 | 13.7 | 1190 | 13.27 | 1228 |
| 40 | 0 | 0 | 0 | 0.52 | 14.04 | 1161 | 13.6 | 1198 |
| 50 | 0 | 0 | 0 | 0.52 | 14.37 | 1135 | 13.93 | 1170 |
| 60 | 0 | 0 | 0 | 0.52 | 14.7 | 1109 | 14.25 | 1144 |
| 70 | 0 | 0 | 0 | 0.52 | 15.02 | 1086 | 14.56 | 1120 |
| 80 | 0 | 0 | 0 | 0.52 | 15.33 | 1064 | 14.87 | 1096 |
| 90 | 0 | 0 | 0 | 0.52 | 15.64 | 1043 | 15.18 | 1074 |
| 100 | 0 | 0 | 0 | 0.52 | 15.95 | 1023 | 15.48 | 1054 |
| 110 | 0 | 0 | 0 | 0.52 | 16.25 | 1004 | 15.78 | 1034 |
| 120 | 0 | 0 | 0 | 0.52 | 16.53 | 988 | 16.07 | 1015 |
| 130 | 0 | 0 | 0 | 0.52 | 16.71 | 977 | 16.36 | 998 |
| 167 | 0 | 0 | 0 | 0.52 | 17.37 | 940 | 17.37 | 940 |
| 212 | 0 | 0 | 0 | 0.52 | 18.16 | 900 | 18.15 | 900 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 |
| 125.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 | 2-3 |
| 150.00 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 | 2-8 | 3-0 | 3-2 |
| 175.00 | 1-1 | 1-3 | 1-7 | 1-11 | 2-4 | 2-9 | 3-2 | 3-8 | 4-1 | 4-4 |
| 200.00 | 1-5 | 1-8 | 2-0 | 2-6 | 3-0 | 3-7 | 4-2 | 4-9 | 5-3 | 5-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 |
| 125.00 | 0-7 | 0-9 | 0-11 | 1-2 | 1-4 | 1-7 | 1-10 | 2-0 | 2-1 | 2-3 |
| 150.00 | 0-10 | 1-0 | 1-4 | 1-8 | 2-0 | 2-4 | 2-8 | 2-10 | 3-0 | 3-2 |
| 175.00 | 1-2 | 1-5 | 1-9 | 2-3 | 2-8 | 3-2 | 3-7 | 3-11 | 4-1 | 4-4 |
| 200.00 | 1-6 | 1-10 | 2-4 | 2-11 | 3-6 | 4-2 | 4-9 | 5-1 | 5-5 | 5-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 |
| 200.00 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 | 3-7 |
| 225.00 | 2-1 | 2-5 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 |
| 250.00 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-1 |
| 175.00 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 |
| 200.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 | 3-9 |
| 225.00 | 2-4 | 2-8 | 2-11 | 3-3 | 3-7 | 3-10 | 4-2 | 4-5 | 4-7 | 4-9 |
| 250.00 | 2-10 | 3-3 | 3-8 | 4-0 | 4-5 | 4-9 | 5-1 | 5-5 | 5-8 | 5-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 175.00 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 200.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 |
| 225.00 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 |
| 250.00 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 |
| 275.00 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 |
| 300.00 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 |
| 325.00 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 | 7-3 | 7-7 | 7-10 |
| 350.00 | 5-9 | 6-2 | 6-7 | 6-11 | 7-4 | 7-8 | 8-1 | 8-5 | 8-9 | 9-1 |
| 375.00 | 6-7 | 7-1 | 7-6 | 8-0 | 8-5 | 8-10 | 9-3 | 9-8 | 10-1 | 10-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 |
| 175.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 |
| 225.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 |
| 250.00 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-9 | 4-10 |
| 275.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 |
| 300.00 | 4-6 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 |
| 325.00 | 5-4 | 5-8 | 6-1 | 6-5 | 6-9 | 7-1 | 7-4 | 7-8 | 8-0 | 8-2 |
| 350.00 | 6-2 | 6-7 | 7-0 | 7-5 | 7-10 | 8-2 | 8-6 | 8-11 | 9-3 | 9-6 |
| 375.00 | 7-1 | 7-7 | 8-1 | 8-6 | 8-11 | 9-5 | 9-10 | 10-3 | 10-7 | 10-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 |
| 225.00 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 |
| 250.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 |
| 275.00 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 |
| 300.00 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 |
| 325.00 | 5-3 | 5-6 | 5-9 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 |
| 350.00 | 6-2 | 6-5 | 6-8 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-2 |
| 375.00 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 |
| 400.00 | 8-0 | 8-4 | 8-8 | 9-0 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-9 |
| 425.00 | 9-1 | 9-5 | 9-9 | 10-1 | 10-6 | 10-10 | 11-2 | 11-6 | 11-9 | 12-1 |
| 450.00 | 10-2 | 10-7 | 10-11 | 11-4 | 11-9 | 12-1 | 12-6 | 12-10 | 13-2 | 13-7 |
| 475.00 | 11-4 | 11-9 | 12-2 | 12-8 | 13-1 | 13-6 | 13-11 | 14-4 | 14-9 | 15-1 |
| 500.00 | 12-6 | 13-0 | 13-6 | 14-0 | 14-6 | 15-0 | 15-5 | 15-10 | 16-4 | 16-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 225.00 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 250.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 |
| 275.00 | 4-0 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 |
| 300.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 |
| 325.00 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 |
| 350.00 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-4 | 8-6 |
| 375.00 | 7-4 | 7-8 | 7-11 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 |
| 400.00 | 8-5 | 8-9 | 9-1 | 9-4 | 9-8 | 10-0 | 10-3 | 10-7 | 10-10 | 11-2 |
| 425.00 | 9-6 | 9-10 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 | 12-7 |
| 450.00 | 10-7 | 11-1 | 11-5 | 11-10 | 12-3 | 12-8 | 13-0 | 13-5 | 13-9 | 14-1 |
| 475.00 | 11-10 | 12-4 | 12-9 | 13-3 | 13-8 | 14-1 | 14-6 | 14-11 | 15-4 | 15-8 |
| 500.00 | 13-1 | 13-8 | 14-2 | 14-8 | 15-2 | 15-7 | 16-1 | 16-6 | 17-0 | 17-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 |
| 275.00 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 300.00 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 |
| 325.00 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-8 |
| 350.00 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-7 | 7-9 |
| 375.00 | 7-3 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 |
| 400.00 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 |
| 425.00 | 9-4 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 | 10-9 | 11-0 | 11-2 | 11-5 |
| 450.00 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-10 | 12-1 | 12-4 | 12-6 | 12-9 |
| 475.00 | 11-8 | 12-0 | 12-3 | 12-7 | 12-10 | 13-2 | 13-5 | 13-8 | 14-0 | 14-3 |
| 500.00 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 | 14-7 | 14-10 | 15-2 | 15-6 | 15-9 |
| 525.00 | 14-3 | 14-8 | 15-0 | 15-4 | 15-9 | 16-1 | 16-5 | 16-9 | 17-1 | 17-5 |
| 550.00 | 15-8 | 16-1 | 16-6 | 16-10 | 17-3 | 17-8 | 18-0 | 18-4 | 18-9 | 19-1 |
| 575.00 | 17-1 | 17-7 | 18-0 | 18-5 | 18-10 | 19-3 | 19-8 | 20-1 | 20-6 | 20-11 |
| 600.00 | 18-8 | 19-1 | 19-7 | 20-1 | 20-6 | 21-0 | 21-5 | 21-10 | 22-4 | 22-9 |
| 625.00 | 20-3 | 20-9 | 21-3 | 21-9 | 22-3 | 22-9 | 23-3 | 23-9 | 24-2 | 24-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 275.00 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 |
| 300.00 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 |
| 325.00 | 5-8 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 |
| 350.00 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 7-11 |
| 375.00 | 7-6 | 7-8 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-10 | 9-0 | 9-2 |
| 400.00 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-5 |
| 425.00 | 9-8 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 |
| 450.00 | 10-10 | 11-1 | 11-4 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 |
| 475.00 | 12-1 | 12-4 | 12-8 | 13-0 | 13-3 | 13-7 | 13-10 | 14-1 | 14-5 | 14-8 |
| 500.00 | 13-4 | 13-8 | 14-0 | 14-4 | 14-8 | 15-0 | 15-4 | 15-8 | 15-11 | 16-3 |
| 525.00 | 14-9 | 15-1 | 15-6 | 15-10 | 16-2 | 16-7 | 16-11 | 17-3 | 17-7 | 17-11 |
| 550.00 | 16-2 | 16-7 | 17-0 | 17-5 | 17-9 | 18-2 | 18-7 | 18-11 | 19-4 | 19-8 |
| 575.00 | 17-8 | 18-1 | 18-7 | 19-0 | 19-5 | 19-10 | 20-3 | 20-8 | 21-1 | 21-6 |
| 600.00 | 19-3 | 19-9 | 20-3 | 20-8 | 21-2 | 21-8 | 22-1 | 22-6 | 23-0 | 23-5 |
| 625.00 | 20-10 | 21-5 | 21-11 | 22-6 | 23-0 | 23-6 | 24-0 | 24-6 | 24-11 | 25-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 0.46 | 2395 | 0.44 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 0.22 | 3015 | 0.22 | 3015 |
| 30 | 0 | 0 | 0 | 0.52 | 0.35 | 1880 | 0.31 | 2091 |
| 40 | 0 | 0 | 0 | 0.52 | 0.43 | 1524 | 0.36 | 1787 |
| 50 | 0 | 0 | 0 | 0.52 | 0.54 | 1213 | 0.43 | 1495 |
| 60 | 0 | 0 | 0 | 0.52 | 0.67 | 965 | 0.53 | 1228 |
| 70 | 0 | 0 | 0 | 0.52 | 0.83 | 786 | 0.65 | 1002 |
| 80 | 0 | 0 | 0 | 0.52 | 0.98 | 661 | 0.79 | 826 |
| 90 | 0 | 0 | 0 | 0.52 | 1.08 | 603 | 0.93 | 697 |
| 100 | 0 | 0 | 0 | 0.52 | 1.15 | 564 | 1.08 | 603 |
| 110 | 0 | 0 | 0 | 0.52 | 1.23 | 529 | 1.22 | 534 |
| 120 | 0 | 0 | 0 | 0.52 | 1.31 | 498 | 1.31 | 498 |
| 130 | 0 | 0 | 0 | 0.52 | 1.38 | 471 | 1.38 | 471 |
| 167 | 0 | 0 | 0 | 0.52 | 1.65 | 395 | 1.65 | 395 |
| 212 | 0 | 0 | 0 | 0.52 | 1.94 | 335 | 1.94 | 335 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 1.87 | 2347 | 1.75 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 1.02 | 2550 | 0.97 | 2694 |
| 30 | 0 | 0 | 0 | 0.52 | 1.57 | 1658 | 1.36 | 1910 |
| 40 | 0 | 0 | 0 | 0.52 | 1.8 | 1443 | 1.54 | 1687 |
| 50 | 0 | 0 | 0 | 0.52 | 2.05 | 1269 | 1.74 | 1491 |
| 60 | 0 | 0 | 0 | 0.52 | 2.3 | 1132 | 1.96 | 1325 |
| 70 | 0 | 0 | 0 | 0.52 | 2.55 | 1022 | 2.19 | 1187 |
| 80 | 0 | 0 | 0 | 0.52 | 2.79 | 934 | 2.42 | 1074 |
| 90 | 0 | 0 | 0 | 0.52 | 3.02 | 863 | 2.65 | 982 |
| 100 | 0 | 0 | 0 | 0.52 | 3.2 | 813 | 2.87 | 905 |
| 110 | 0 | 0 | 0 | 0.52 | 3.32 | 784 | 3.09 | 842 |
| 120 | 0 | 0 | 0 | 0.52 | 3.44 | 757 | 3.3 | 788 |
| 130 | 0 | 0 | 0 | 0.52 | 3.56 | 732 | 3.5 | 743 |
| 167 | 0 | 0 | 0 | 0.52 | 3.98 | 654 | 3.98 | 654 |
| 212 | 0 | 0 | 0 | 0.52 | 4.47 | 583 | 4.47 | 583 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 4.17 | 2362 | 3.94 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 2.8 | 2091 | 2.55 | 2298 |
| 30 | 0 | 0 | 0 | 0.52 | 3.76 | 1557 | 3.34 | 1751 |
| 40 | 0 | 0 | 0 | 0.52 | 4.09 | 1433 | 3.63 | 1610 |
| 50 | 0 | 0 | 0 | 0.52 | 4.41 | 1329 | 3.93 | 1488 |
| 60 | 0 | 0 | 0 | 0.52 | 4.72 | 1240 | 4.23 | 1383 |
| 70 | 0 | 0 | 0 | 0.52 | 5.03 | 1165 | 4.53 | 1293 |
| 80 | 0 | 0 | 0 | 0.52 | 5.32 | 1100 | 4.82 | 1215 |
| 90 | 0 | 0 | 0 | 0.52 | 5.61 | 1044 | 5.11 | 1147 |
| 100 | 0 | 0 | 0 | 0.52 | 5.89 | 995 | 5.39 | 1087 |
| 110 | 0 | 0 | 0 | 0.52 | 6.13 | 956 | 5.66 | 1035 |
| 120 | 0 | 0 | 0 | 0.52 | 6.28 | 933 | 5.93 | 989 |
| 130 | 0 | 0 | 0 | 0.52 | 6.44 | 911 | 6.18 | 947 |
| 167 | 0 | 0 | 0 | 0.52 | 6.98 | 840 | 6.97 | 841 |
| 212 | 0 | 0 | 0 | 0.52 | 7.62 | 770 | 7.61 | 771 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 7.34 | 2389 | 7.01 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 5.69 | 1829 | 5.23 | 1991 |
| 30 | 0 | 0 | 0 | 0.52 | 6.86 | 1519 | 6.3 | 1654 |
| 40 | 0 | 0 | 0 | 0.52 | 7.23 | 1440 | 6.65 | 1565 |
| 50 | 0 | 0 | 0 | 0.52 | 7.59 | 1371 | 7 | 1487 |
| 60 | 0 | 0 | 0 | 0.52 | 7.95 | 1310 | 7.35 | 1417 |
| 70 | 0 | 0 | 0 | 0.52 | 8.3 | 1256 | 7.69 | 1355 |
| 80 | 0 | 0 | 0 | 0.52 | 8.63 | 1207 | 8.02 | 1298 |
| 90 | 0 | 0 | 0 | 0.52 | 8.96 | 1163 | 8.35 | 1248 |
| 100 | 0 | 0 | 0 | 0.52 | 9.28 | 1123 | 8.67 | 1202 |
| 110 | 0 | 0 | 0 | 0.52 | 9.6 | 1086 | 8.98 | 1160 |
| 120 | 0 | 0 | 0 | 0.52 | 9.86 | 1058 | 9.29 | 1122 |
| 130 | 0 | 0 | 0 | 0.52 | 10.03 | 1039 | 9.59 | 1087 |
| 167 | 0 | 0 | 0 | 0.52 | 10.68 | 977 | 10.65 | 979 |
| 212 | 0 | 0 | 0 | 0.52 | 11.44 | 912 | 11.43 | 913 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 11.37 | 2413 | 10.97 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 9.58 | 1698 | 8.99 | 1810 |
| 30 | 0 | 0 | 0 | 0.52 | 10.84 | 1502 | 10.19 | 1598 |
| 40 | 0 | 0 | 0 | 0.52 | 11.24 | 1449 | 10.57 | 1540 |
| 50 | 0 | 0 | 0 | 0.52 | 11.63 | 1401 | 10.95 | 1486 |
| 60 | 0 | 0 | 0 | 0.52 | 12.01 | 1356 | 11.33 | 1437 |
| 70 | 0 | 0 | 0 | 0.52 | 12.38 | 1315 | 11.7 | 1392 |
| 80 | 0 | 0 | 0 | 0.52 | 12.75 | 1278 | 12.06 | 1351 |
| 90 | 0 | 0 | 0 | 0.52 | 13.11 | 1243 | 12.42 | 1312 |
| 100 | 0 | 0 | 0 | 0.52 | 13.46 | 1211 | 12.77 | 1276 |
| 110 | 0 | 0 | 0 | 0.52 | 13.8 | 1181 | 13.11 | 1243 |
| 120 | 0 | 0 | 0 | 0.52 | 14.14 | 1153 | 13.45 | 1212 |
| 130 | 0 | 0 | 0 | 0.52 | 14.39 | 1133 | 13.78 | 1183 |
| 167 | 0 | 0 | 0 | 0.52 | 15.12 | 1079 | 14.96 | 1090 |
| 212 | 0 | 0 | 0 | 0.52 | 15.98 | 1021 | 15.96 | 1023 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-11 |
| 150.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-9 | 2-1 | 2-5 | 2-9 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-5 | 2-10 | 3-4 | 3-9 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-9 | 2-1 | 2-7 | 3-2 | 3-9 | 4-4 | 4-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-1 | 1-4 | 1-6 | 1-8 | 1-10 | 1-11 |
| 150.00 | 0-8 | 0-9 | 1-0 | 1-2 | 1-6 | 1-10 | 2-3 | 2-5 | 2-7 | 2-9 |
| 175.00 | 0-11 | 1-1 | 1-4 | 1-8 | 2-1 | 2-6 | 3-0 | 3-4 | 3-6 | 3-9 |
| 200.00 | 1-2 | 1-5 | 1-8 | 2-2 | 2-8 | 3-4 | 3-11 | 4-4 | 4-7 | 4-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.188

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 175.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 200.00 | 1-2 | 1-4 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 | 2-10 | 3-1 |
| 225.00 | 1-6 | 1-9 | 1-11 | 2-2 | 2-6 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 |
| 250.00 | 1-11 | 2-2 | 2-5 | 2-9 | 3-1 | 3-5 | 3-9 | 4-2 | 4-6 | 4-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-10 |
| 175.00 | 1-0 | 1-2 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-5 | 2-7 |
| 200.00 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 |
| 225.00 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-2 |
| 250.00 | 2-1 | 2-5 | 2-10 | 3-2 | 3-7 | 4-0 | 4-4 | 4-9 | 5-0 | 5-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 |
| 225.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 |
| 250.00 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 |
| 275.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 |
| 300.00 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 |
| 325.00 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 |
| 350.00 | 4-2 | 4-7 | 4-11 | 5-4 | 5-9 | 6-2 | 6-7 | 6-11 | 7-4 | 7-8 |
| 375.00 | 4-9 | 5-3 | 5-8 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-5 | 8-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 |
| 175.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 200.00 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 |
| 225.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 |
| 250.00 | 2-5 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 |
| 275.00 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 |
| 300.00 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 |
| 325.00 | 4-0 | 4-5 | 4-10 | 5-2 | 5-6 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 |
| 350.00 | 4-8 | 5-1 | 5-7 | 6-0 | 6-5 | 6-10 | 7-3 | 7-8 | 8-0 | 8-4 |
| 375.00 | 5-4 | 5-10 | 6-5 | 6-11 | 7-5 | 7-10 | 8-4 | 8-9 | 9-2 | 9-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 225.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 |
| 250.00 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 |
| 275.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-3 |
| 300.00 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-11 | 5-1 |
| 325.00 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 |
| 350.00 | 4-7 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 |
| 375.00 | 5-3 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 | 7-4 | 7-7 | 7-11 |
| 400.00 | 5-11 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 |
| 425.00 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-8 | 9-1 | 9-5 | 9-9 | 10-2 |
| 450.00 | 7-6 | 8-0 | 8-5 | 8-10 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 | 11-4 |
| 475.00 | 8-4 | 8-11 | 9-5 | 9-11 | 10-4 | 10-10 | 11-4 | 11-9 | 12-3 | 12-8 |
| 500.00 | 9-3 | 9-10 | 10-5 | 10-11 | 11-6 | 12-0 | 12-6 | 13-1 | 13-7 | 14-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 225.00 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 |
| 250.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 |
| 275.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 |
| 300.00 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-3 | 5-5 |
| 325.00 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 | 6-4 |
| 350.00 | 4-11 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 375.00 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-3 | 7-7 | 7-11 | 8-2 | 8-5 |
| 400.00 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 | 8-4 | 8-8 | 9-0 | 9-3 | 9-7 |
| 425.00 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 | 10-6 | 10-10 |
| 450.00 | 8-2 | 8-8 | 9-2 | 9-7 | 10-1 | 10-6 | 10-11 | 11-4 | 11-9 | 12-2 |
| 475.00 | 9-2 | 9-8 | 10-2 | 10-9 | 11-3 | 11-8 | 12-2 | 12-8 | 13-1 | 13-6 |
| 500.00 | 10-1 | 10-9 | 11-4 | 11-10 | 12-5 | 13-0 | 13-6 | 14-0 | 14-6 | 15-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 275.00 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 |
| 300.00 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-9 |
| 325.00 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 |
| 350.00 | 4-10 | 5-0 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 |
| 375.00 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 |
| 400.00 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 | 8-5 |
| 425.00 | 7-1 | 7-4 | 7-8 | 7-11 | 8-2 | 8-5 | 8-9 | 9-0 | 9-3 | 9-6 |
| 450.00 | 7-11 | 8-3 | 8-7 | 8-10 | 9-2 | 9-6 | 9-9 | 10-1 | 10-4 | 10-7 |
| 475.00 | 8-10 | 9-2 | 9-7 | 9-11 | 10-3 | 10-7 | 10-11 | 11-2 | 11-6 | 11-10 |
| 500.00 | 9-9 | 10-2 | 10-7 | 10-11 | 11-4 | 11-8 | 12-1 | 12-5 | 12-9 | 13-1 |
| 525.00 | 10-10 | 11-3 | 11-8 | 12-1 | 12-6 | 12-11 | 13-4 | 13-8 | 14-1 | 14-5 |
| 550.00 | 11-10 | 12-4 | 12-10 | 13-3 | 13-9 | 14-2 | 14-7 | 15-0 | 15-5 | 15-10 |
| 575.00 | 12-11 | 13-6 | 14-0 | 14-6 | 15-0 | 15-6 | 15-11 | 16-5 | 16-11 | 17-4 |
| 600.00 | 14-1 | 14-8 | 15-3 | 15-9 | 16-4 | 16-10 | 17-4 | 17-11 | 18-5 | 18-11 |
| 625.00 | 15-4 | 15-11 | 16-6 | 17-1 | 17-9 | 18-3 | 18-10 | 19-5 | 19-11 | 20-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 275.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 |
| 300.00 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 |
| 325.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 |
| 350.00 | 5-1 | 5-4 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 |
| 375.00 | 5-10 | 6-1 | 6-4 | 6-6 | 6-9 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 |
| 400.00 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-7 | 8-10 |
| 425.00 | 7-6 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 |
| 450.00 | 8-5 | 8-9 | 9-1 | 9-5 | 9-9 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 |
| 475.00 | 9-5 | 9-9 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 | 12-5 |
| 500.00 | 10-5 | 10-10 | 11-3 | 11-8 | 12-0 | 12-5 | 12-9 | 13-1 | 13-6 | 13-10 |
| 525.00 | 11-6 | 11-11 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-5 | 14-10 | 15-3 |
| 550.00 | 12-7 | 13-1 | 13-7 | 14-1 | 14-6 | 15-0 | 15-5 | 15-10 | 16-3 | 16-8 |
| 575.00 | 13-10 | 14-4 | 14-10 | 15-5 | 15-11 | 16-5 | 16-10 | 17-4 | 17-10 | 18-3 |
| 600.00 | 15-0 | 15-7 | 16-2 | 16-9 | 17-4 | 17-10 | 18-4 | 18-11 | 19-5 | 19-11 |
| 625.00 | 16-4 | 16-11 | 17-7 | 18-2 | 18-9 | 19-4 | 19-11 | 20-6 | 21-1 | 21-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 0.39 | 2795 | 0.36 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.19 | 3513 | 0.18 | 3536 |
| 30 | 0 | 0 | 0 | 0.52 | 0.28 | 2297 | 0.25 | 2622 |
| 40 | 0 | 0 | 0 | 0.52 | 0.34 | 1913 | 0.28 | 2311 |
| 50 | 0 | 0 | 0 | 0.52 | 0.42 | 1554 | 0.32 | 2001 |
| 60 | 0 | 0 | 0 | 0.52 | 0.53 | 1238 | 0.38 | 1697 |
| 70 | 0 | 0 | 0 | 0.52 | 0.66 | 984 | 0.46 | 1410 |
| 80 | 0 | 0 | 0 | 0.52 | 0.81 | 799 | 0.56 | 1153 |
| 90 | 0 | 0 | 0 | 0.52 | 0.91 | 718 | 0.69 | 941 |
| 100 | 0 | 0 | 0 | 0.52 | 0.98 | 666 | 0.83 | 780 |
| 110 | 0 | 0 | 0 | 0.52 | 1.05 | 620 | 0.98 | 663 |
| 120 | 0 | 0 | 0 | 0.52 | 1.12 | 578 | 1.12 | 580 |
| 130 | 0 | 0 | 0 | 0.52 | 1.2 | 542 | 1.2 | 543 |
| 167 | 0 | 0 | 0 | 0.52 | 1.47 | 441 | 1.47 | 441 |
| 212 | 0 | 0 | 0 | 0.52 | 1.79 | 364 | 1.79 | 364 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 1.59 | 2762 | 1.46 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.83 | 3128 | 0.78 | 3312 |
| 30 | 0 | 0 | 0 | 0.52 | 1.25 | 2089 | 1.05 | 2467 |
| 40 | 0 | 0 | 0 | 0.52 | 1.44 | 1805 | 1.18 | 2200 |
| 50 | 0 | 0 | 0 | 0.52 | 1.66 | 1564 | 1.33 | 1948 |
| 60 | 0 | 0 | 0 | 0.52 | 1.9 | 1366 | 1.51 | 1720 |
| 70 | 0 | 0 | 0 | 0.52 | 2.15 | 1209 | 1.71 | 1518 |
| 80 | 0 | 0 | 0 | 0.52 | 2.4 | 1083 | 1.93 | 1347 |
| 90 | 0 | 0 | 0 | 0.52 | 2.65 | 984 | 2.16 | 1205 |
| 100 | 0 | 0 | 0 | 0.52 | 2.84 | 916 | 2.39 | 1088 |
| 110 | 0 | 0 | 0 | 0.52 | 2.96 | 879 | 2.62 | 993 |
| 120 | 0 | 0 | 0 | 0.52 | 3.08 | 845 | 2.85 | 915 |
| 130 | 0 | 0 | 0 | 0.52 | 3.2 | 813 | 3.06 | 849 |
| 167 | 0 | 0 | 0 | 0.52 | 3.64 | 716 | 3.63 | 718 |
| 212 | 0 | 0 | 0 | 0.52 | 4.14 | 629 | 4.14 | 630 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 3.55 | 2778 | 3.29 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 2.16 | 2703 | 1.96 | 2992 |
| 30 | 0 | 0 | 0 | 0.52 | 3.01 | 1946 | 2.56 | 2284 |
| 40 | 0 | 0 | 0 | 0.52 | 3.33 | 1759 | 2.81 | 2081 |
| 50 | 0 | 0 | 0 | 0.52 | 3.65 | 1602 | 3.08 | 1899 |
| 60 | 0 | 0 | 0 | 0.52 | 3.98 | 1471 | 3.37 | 1738 |
| 70 | 0 | 0 | 0 | 0.52 | 4.3 | 1360 | 3.66 | 1598 |
| 80 | 0 | 0 | 0 | 0.52 | 4.62 | 1267 | 3.96 | 1478 |
| 90 | 0 | 0 | 0 | 0.52 | 4.93 | 1188 | 4.26 | 1374 |
| 100 | 0 | 0 | 0 | 0.52 | 5.23 | 1120 | 4.56 | 1284 |
| 110 | 0 | 0 | 0 | 0.52 | 5.5 | 1066 | 4.85 | 1207 |
| 120 | 0 | 0 | 0 | 0.52 | 5.65 | 1037 | 5.14 | 1140 |
| 130 | 0 | 0 | 0 | 0.52 | 5.81 | 1009 | 5.42 | 1081 |
| 167 | 0 | 0 | 0 | 0.52 | 6.37 | 919 | 6.35 | 923 |
| 212 | 0 | 0 | 0 | 0.52 | 7.04 | 833 | 7.02 | 835 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 6.24 | 2812 | 5.84 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 4.39 | 2372 | 3.91 | 2659 |
| 30 | 0 | 0 | 0 | 0.52 | 5.56 | 1871 | 4.88 | 2133 |
| 40 | 0 | 0 | 0 | 0.52 | 5.96 | 1747 | 5.23 | 1991 |
| 50 | 0 | 0 | 0 | 0.52 | 6.35 | 1640 | 5.58 | 1864 |
| 60 | 0 | 0 | 0 | 0.52 | 6.73 | 1546 | 5.94 | 1751 |
| 70 | 0 | 0 | 0 | 0.52 | 7.11 | 1465 | 6.3 | 1651 |
| 80 | 0 | 0 | 0 | 0.52 | 7.48 | 1393 | 6.66 | 1563 |
| 90 | 0 | 0 | 0 | 0.52 | 7.83 | 1330 | 7.02 | 1484 |
| 100 | 0 | 0 | 0 | 0.52 | 8.18 | 1273 | 7.36 | 1414 |
| 110 | 0 | 0 | 0 | 0.52 | 8.52 | 1222 | 7.71 | 1352 |
| 120 | 0 | 0 | 0 | 0.52 | 8.83 | 1180 | 8.04 | 1295 |
| 130 | 0 | 0 | 0 | 0.52 | 9.01 | 1156 | 8.37 | 1245 |
| 167 | 0 | 0 | 0 | 0.52 | 9.69 | 1076 | 9.52 | 1094 |
| 212 | 0 | 0 | 0 | 0.52 | 10.49 | 995 | 10.46 | 997 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.876 | 9.63 | 2845 | 9.14 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 7.51 | 2166 | 6.79 | 2395 |
| 30 | 0 | 0 | 0 | 0.52 | 8.87 | 1834 | 8.02 | 2029 |
| 40 | 0 | 0 | 0 | 0.52 | 9.31 | 1747 | 8.43 | 1930 |
| 50 | 0 | 0 | 0 | 0.52 | 9.74 | 1670 | 8.84 | 1840 |
| 60 | 0 | 0 | 0 | 0.52 | 10.17 | 1601 | 9.25 | 1759 |
| 70 | 0 | 0 | 0 | 0.52 | 10.58 | 1538 | 9.65 | 1686 |
| 80 | 0 | 0 | 0 | 0.52 | 10.99 | 1482 | 10.05 | 1619 |
| 90 | 0 | 0 | 0 | 0.52 | 11.38 | 1430 | 10.44 | 1559 |
| 100 | 0 | 0 | 0 | 0.52 | 11.77 | 1383 | 10.83 | 1503 |
| 110 | 0 | 0 | 0 | 0.52 | 12.15 | 1341 | 11.21 | 1452 |
| 120 | 0 | 0 | 0 | 0.52 | 12.52 | 1301 | 11.58 | 1406 |
| 130 | 0 | 0 | 0 | 0.52 | 12.83 | 1270 | 11.95 | 1363 |
| 167 | 0 | 0 | 0 | 0.52 | 13.6 | 1198 | 13.25 | 1230 |
| 212 | 0 | 0 | 0 | 0.52 | 14.51 | 1124 | 14.47 | 1127 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-6 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-3 | 1-7 | 1-11 | 2-2 |
| 175.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-1 | 2-7 | 3-0 |
| 200.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-10 | 2-3 | 2-9 | 3-4 | 3-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-5 | 1-6 | 1-8 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-0 | 2-2 | 2-4 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-6 | 2-9 | 3-0 | 3-3 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-8 | 2-1 | 2-8 | 3-3 | 3-7 | 3-11 | 4-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 |
| 200.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-5 | 2-7 |
| 225.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-9 | 3-0 | 3-4 |
| 250.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-9 | 4-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-10 | 3-0 |
| 225.00 | 1-4 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 | 3-0 | 3-4 | 3-7 | 3-9 |
| 250.00 | 1-8 | 1-11 | 2-3 | 2-7 | 3-0 | 3-4 | 3-9 | 4-2 | 4-5 | 4-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-10 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 200.00 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |
| 225.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 250.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 |
| 275.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 |
| 300.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-3 | 4-7 | 4-10 |
| 325.00 | 2-9 | 3-0 | 3-4 | 3-7 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 |
| 350.00 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 | 5-0 | 5-5 | 5-10 | 6-2 | 6-7 |
| 375.00 | 3-8 | 4-0 | 4-5 | 4-10 | 5-3 | 5-9 | 6-2 | 6-8 | 7-2 | 7-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 |
| 175.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 200.00 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 |
| 225.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 250.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 |
| 275.00 | 2-3 | 2-6 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-7 |
| 300.00 | 2-8 | 3-0 | 3-4 | 3-8 | 4-0 | 4-4 | 4-7 | 4-11 | 5-3 | 5-6 |
| 325.00 | 3-2 | 3-6 | 3-11 | 4-3 | 4-8 | 5-1 | 5-5 | 5-9 | 6-2 | 6-5 |
| 350.00 | 3-8 | 4-1 | 4-6 | 5-0 | 5-5 | 5-10 | 6-3 | 6-9 | 7-1 | 7-6 |
| 375.00 | 4-3 | 4-8 | 5-2 | 5-9 | 6-3 | 6-9 | 7-3 | 7-8 | 8-2 | 8-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 225.00 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 250.00 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 |
| 275.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 300.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 |
| 325.00 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 |
| 350.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 |
| 375.00 | 4-0 | 4-3 | 4-7 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 |
| 400.00 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 |
| 425.00 | 5-1 | 5-6 | 5-11 | 6-4 | 6-9 | 7-1 | 7-6 | 7-11 | 8-4 | 8-8 |
| 450.00 | 5-9 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-5 | 8-11 | 9-4 | 9-9 |
| 475.00 | 6-5 | 6-11 | 7-4 | 7-11 | 8-5 | 8-11 | 9-5 | 9-11 | 10-5 | 10-10 |
| 500.00 | 7-1 | 7-7 | 8-2 | 8-9 | 9-3 | 9-10 | 10-5 | 11-0 | 11-6 | 12-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 |
| 225.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 |
| 250.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 |
| 275.00 | 2-5 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 |
| 300.00 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-10 |
| 325.00 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 |
| 350.00 | 3-11 | 4-3 | 4-7 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 | 6-6 |
| 375.00 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 |
| 400.00 | 5-2 | 5-7 | 5-11 | 6-4 | 6-9 | 7-1 | 7-6 | 7-10 | 8-2 | 8-6 |
| 425.00 | 5-10 | 6-3 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-7 |
| 450.00 | 6-6 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 | 9-11 | 10-4 | 10-9 |
| 475.00 | 7-3 | 7-10 | 8-5 | 8-11 | 9-6 | 10-0 | 10-7 | 11-1 | 11-7 | 12-0 |
| 500.00 | 8-1 | 8-8 | 9-4 | 9-11 | 10-6 | 11-1 | 11-8 | 12-3 | 12-9 | 13-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 |
| 275.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 |
| 300.00 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 |
| 325.00 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 |
| 350.00 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-4 | 5-6 |
| 375.00 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-4 |
| 400.00 | 4-10 | 5-2 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 |
| 425.00 | 5-6 | 5-9 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 | 7-7 | 7-10 | 8-1 |
| 450.00 | 6-2 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 | 8-6 | 8-9 | 9-1 |
| 475.00 | 6-10 | 7-3 | 7-7 | 8-0 | 8-4 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 |
| 500.00 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-8 | 10-1 | 10-5 | 10-10 | 11-3 |
| 525.00 | 8-5 | 8-10 | 9-4 | 9-9 | 10-2 | 10-8 | 11-1 | 11-6 | 11-11 | 12-4 |
| 550.00 | 9-2 | 9-8 | 10-2 | 10-8 | 11-2 | 11-8 | 12-2 | 12-8 | 13-1 | 13-7 |
| 575.00 | 10-1 | 10-7 | 11-2 | 11-8 | 12-3 | 12-9 | 13-4 | 13-10 | 14-4 | 14-10 |
| 600.00 | 10-11 | 11-7 | 12-2 | 12-9 | 13-4 | 13-11 | 14-6 | 15-1 | 15-7 | 16-2 |
| 625.00 | 11-11 | 12-6 | 13-2 | 13-10 | 14-5 | 15-1 | 15-9 | 16-4 | 16-11 | 17-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 275.00 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 |
| 300.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-3 | 4-4 |
| 325.00 | 3-7 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 |
| 350.00 | 4-2 | 4-4 | 4-7 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 | 5-11 |
| 375.00 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-5 | 6-7 | 6-10 |
| 400.00 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 |
| 425.00 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-8 | 7-11 | 8-3 | 8-6 | 8-9 |
| 450.00 | 6-10 | 7-2 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 | 9-6 | 9-10 |
| 475.00 | 7-7 | 8-0 | 8-5 | 8-10 | 9-2 | 9-7 | 9-11 | 10-3 | 10-7 | 11-0 |
| 500.00 | 8-5 | 8-10 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 | 11-5 | 11-9 | 12-2 |
| 525.00 | 9-3 | 9-9 | 10-3 | 10-9 | 11-3 | 11-8 | 12-1 | 12-7 | 13-0 | 13-5 |
| 550.00 | 10-2 | 10-9 | 11-3 | 11-10 | 12-4 | 12-10 | 13-4 | 13-9 | 14-3 | 14-8 |
| 575.00 | 11-2 | 11-9 | 12-4 | 12-11 | 13-5 | 14-0 | 14-6 | 15-1 | 15-7 | 16-1 |
| 600.00 | 12-2 | 12-9 | 13-5 | 14-0 | 14-8 | 15-3 | 15-10 | 16-5 | 16-11 | 17-6 |
| 625.00 | 13-2 | 13-10 | 14-7 | 15-3 | 15-11 | 16-6 | 17-2 | 17-10 | 18-5 | 19-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 1.66 | 992 | 1.64 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 1.08 | 602 | 1.05 | 616 |
| 30 | 0 | 0 | 0 | 0.52 | 1.23 | 531 | 1.19 | 545 |
| 40 | 0 | 0 | 0 | 0.52 | 1.36 | 478 | 1.33 | 491 |
| 50 | 0 | 0 | 0 | 0.52 | 1.49 | 437 | 1.45 | 449 |
| 60 | 0 | 0 | 0 | 0.52 | 1.61 | 404 | 1.57 | 415 |
| 70 | 0 | 0 | 0 | 0.52 | 1.72 | 378 | 1.68 | 387 |
| 80 | 0 | 0 | 0 | 0.52 | 1.82 | 357 | 1.79 | 364 |
| 90 | 0 | 0 | 0 | 0.52 | 1.89 | 345 | 1.89 | 345 |
| 100 | 0 | 0 | 0 | 0.52 | 1.95 | 333 | 1.95 | 333 |
| 110 | 0 | 0 | 0 | 0.52 | 2.01 | 323 | 2.01 | 323 |
| 120 | 0 | 0 | 0 | 0.52 | 2.07 | 314 | 2.07 | 314 |
| 130 | 0 | 0 | 0 | 0.52 | 2.13 | 305 | 2.13 | 305 |
| 167 | 0 | 0 | 0 | 0.52 | 2.34 | 278 | 2.34 | 278 |
| 212 | 0 | 0 | 0 | 0.52 | 2.58 | 253 | 2.58 | 253 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 6.61 | 998 | 6.6 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 6.06 | 431 | 6.03 | 433 |
| 30 | 0 | 0 | 0 | 0.52 | 6.19 | 422 | 6.16 | 424 |
| 40 | 0 | 0 | 0 | 0.52 | 6.32 | 413 | 6.28 | 416 |
| 50 | 0 | 0 | 0 | 0.52 | 6.44 | 405 | 6.4 | 408 |
| 60 | 0 | 0 | 0 | 0.52 | 6.56 | 398 | 6.52 | 400 |
| 70 | 0 | 0 | 0 | 0.52 | 6.68 | 391 | 6.64 | 393 |
| 80 | 0 | 0 | 0 | 0.52 | 6.8 | 384 | 6.75 | 387 |
| 90 | 0 | 0 | 0 | 0.52 | 6.88 | 380 | 6.87 | 380 |
| 100 | 0 | 0 | 0 | 0.52 | 6.96 | 375 | 6.96 | 375 |
| 110 | 0 | 0 | 0 | 0.52 | 7.03 | 371 | 7.03 | 371 |
| 120 | 0 | 0 | 0 | 0.52 | 7.11 | 368 | 7.11 | 368 |
| 130 | 0 | 0 | 0 | 0.52 | 7.18 | 364 | 7.18 | 364 |
| 167 | 0 | 0 | 0 | 0.52 | 7.45 | 351 | 7.45 | 351 |
| 212 | 0 | 0 | 0 | 0.52 | 7.76 | 337 | 7.76 | 337 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 14.95 | 999 | 14.93 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 14.4 | 410 | 14.37 | 411 |
| 30 | 0 | 0 | 0 | 0.52 | 14.52 | 407 | 14.49 | 407 |
| 40 | 0 | 0 | 0 | 0.52 | 14.65 | 403 | 14.61 | 404 |
| 50 | 0 | 0 | 0 | 0.52 | 14.77 | 400 | 14.73 | 401 |
| 60 | 0 | 0 | 0 | 0.52 | 14.89 | 397 | 14.85 | 398 |
| 70 | 0 | 0 | 0 | 0.52 | 15.02 | 393 | 14.97 | 395 |
| 80 | 0 | 0 | 0 | 0.52 | 15.14 | 390 | 15.09 | 392 |
| 90 | 0 | 0 | 0 | 0.52 | 15.22 | 388 | 15.21 | 389 |
| 100 | 0 | 0 | 0 | 0.52 | 15.31 | 386 | 15.31 | 386 |
| 110 | 0 | 0 | 0 | 0.52 | 15.38 | 384 | 15.38 | 384 |
| 120 | 0 | 0 | 0 | 0.52 | 15.46 | 382 | 15.46 | 382 |
| 130 | 0 | 0 | 0 | 0.52 | 15.54 | 380 | 15.54 | 380 |
| 167 | 0 | 0 | 0 | 0.52 | 15.83 | 374 | 15.83 | 374 |
| 212 | 0 | 0 | 0 | 0.52 | 16.17 | 366 | 16.17 | 366 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 26.77 | 999 | 26.76 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 26.23 | 403 | 26.2 | 404 |
| 30 | 0 | 0 | 0 | 0.52 | 26.35 | 402 | 26.32 | 402 |
| 40 | 0 | 0 | 0 | 0.52 | 26.47 | 400 | 26.44 | 400 |
| 50 | 0 | 0 | 0 | 0.52 | 26.6 | 398 | 26.56 | 398 |
| 60 | 0 | 0 | 0 | 0.52 | 26.72 | 396 | 26.68 | 397 |
| 70 | 0 | 0 | 0 | 0.52 | 26.84 | 394 | 26.8 | 395 |
| 80 | 0 | 0 | 0 | 0.52 | 26.96 | 393 | 26.91 | 393 |
| 90 | 0 | 0 | 0 | 0.52 | 27.05 | 391 | 27.03 | 392 |
| 100 | 0 | 0 | 0 | 0.52 | 27.14 | 390 | 27.14 | 390 |
| 110 | 0 | 0 | 0 | 0.52 | 27.22 | 389 | 27.22 | 389 |
| 120 | 0 | 0 | 0 | 0.52 | 27.3 | 388 | 27.3 | 388 |
| 130 | 0 | 0 | 0 | 0.52 | 27.38 | 387 | 27.38 | 387 |
| 167 | 0 | 0 | 0 | 0.52 | 27.67 | 383 | 27.67 | 383 |
| 212 | 0 | 0 | 0 | 0.52 | 28.02 | 378 | 28.02 | 378 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 42.26 | 1000 | 42.25 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 41.72 | 400 | 41.69 | 401 |
| 30 | 0 | 0 | 0 | 0.52 | 41.84 | 399 | 41.81 | 400 |
| 40 | 0 | 0 | 0 | 0.52 | 41.97 | 398 | 41.93 | 398 |
| 50 | 0 | 0 | 0 | 0.52 | 42.09 | 397 | 42.05 | 397 |
| 60 | 0 | 0 | 0 | 0.52 | 42.21 | 396 | 42.17 | 396 |
| 70 | 0 | 0 | 0 | 0.52 | 42.33 | 395 | 42.29 | 395 |
| 80 | 0 | 0 | 0 | 0.52 | 42.45 | 394 | 42.41 | 394 |
| 90 | 0 | 0 | 0 | 0.52 | 42.55 | 393 | 42.52 | 393 |
| 100 | 0 | 0 | 0 | 0.52 | 42.63 | 392 | 42.63 | 392 |
| 110 | 0 | 0 | 0 | 0.52 | 42.71 | 392 | 42.71 | 392 |
| 120 | 0 | 0 | 0 | 0.52 | 42.79 | 391 | 42.79 | 391 |
| 130 | 0 | 0 | 0 | 0.52 | 42.87 | 390 | 42.87 | 390 |
| 167 | 0 | 0 | 0 | 0.52 | 43.17 | 388 | 43.17 | 388 |
| 212 | 0 | 0 | 0 | 0.52 | 43.53 | 385 | 43.53 | 385 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 1-11 | 2-0 |
| 125.00 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 | 2-8 | 2-9 | 2-11 | 3-1 | 3-2 |
| 150.00 | 2-4 | 2-8 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-5 | 4-6 |
| 175.00 | 3-3 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 | 5-9 | 6-0 | 6-2 |
| 200.00 | 4-3 | 4-9 | 5-4 | 5-10 | 6-3 | 6-9 | 7-2 | 7-7 | 7-10 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 125.00 | 1-8 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 |
| 150.00 | 2-5 | 2-9 | 3-1 | 3-4 | 3-7 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 |
| 175.00 | 3-4 | 3-9 | 4-2 | 4-7 | 4-11 | 5-3 | 5-7 | 5-9 | 6-0 | 6-2 |
| 200.00 | 4-4 | 4-11 | 5-5 | 6-0 | 6-5 | 6-11 | 7-4 | 7-7 | 7-10 | 8-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 |
| 125.00 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 150.00 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 175.00 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 200.00 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 7-0 | 7-0 |
| 225.00 | 7-8 | 7-10 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 | 8-11 |
| 250.00 | 9-5 | 9-8 | 9-10 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 | 10-11 | 11-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 |
| 125.00 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 150.00 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 175.00 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 200.00 | 6-1 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-0 |
| 225.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 |
| 250.00 | 9-6 | 9-8 | 9-11 | 10-1 | 10-3 | 10-5 | 10-8 | 10-9 | 10-11 | 11-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 |
| 175.00 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 |
| 200.00 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 |
| 225.00 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 |
| 250.00 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 |
| 275.00 | 12-1 | 12-2 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 |
| 300.00 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-2 | 15-4 | 15-5 |
| 325.00 | 16-10 | 17-0 | 17-2 | 17-4 | 17-5 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 |
| 350.00 | 19-7 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-10 | 21-0 |
| 375.00 | 22-6 | 22-8 | 22-10 | 23-1 | 23-3 | 23-5 | 23-7 | 23-10 | 24-0 | 24-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 |
| 175.00 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 |
| 200.00 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 | 6-9 | 6-9 | 6-10 |
| 225.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 |
| 250.00 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 |
| 275.00 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 | 12-7 | 12-9 | 12-9 | 12-10 | 12-11 |
| 300.00 | 14-5 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-2 | 15-3 | 15-4 | 15-5 |
| 325.00 | 16-11 | 17-1 | 17-2 | 17-4 | 17-6 | 17-8 | 17-9 | 17-11 | 18-0 | 18-1 |
| 350.00 | 19-7 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-9 | 20-10 | 21-0 |
| 375.00 | 22-6 | 22-9 | 22-11 | 23-1 | 23-4 | 23-6 | 23-8 | 23-10 | 24-0 | 24-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 |
| 225.00 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 |
| 250.00 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 |
| 275.00 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 |
| 300.00 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 | 15-3 | 15-3 |
| 325.00 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 17-11 |
| 350.00 | 20-0 | 20-1 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 |
| 375.00 | 23-0 | 23-1 | 23-3 | 23-4 | 23-5 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 |
| 400.00 | 26-2 | 26-4 | 26-5 | 26-7 | 26-8 | 26-10 | 26-11 | 27-0 | 27-2 | 27-3 |
| 425.00 | 29-7 | 29-9 | 29-10 | 30-0 | 30-2 | 30-3 | 30-5 | 30-6 | 30-8 | 30-9 |
| 450.00 | 33-2 | 33-4 | 33-6 | 33-8 | 33-10 | 34-0 | 34-1 | 34-3 | 34-5 | 34-6 |
| 475.00 | 37-0 | 37-2 | 37-4 | 37-6 | 37-9 | 37-11 | 38-1 | 38-3 | 38-4 | 38-6 |
| 500.00 | 41-1 | 41-3 | 41-5 | 41-8 | 41-10 | 42-0 | 42-2 | 42-5 | 42-7 | 42-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-9 |
| 225.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 |
| 250.00 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 |
| 275.00 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 |
| 300.00 | 14-9 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 |
| 325.00 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 17-11 |
| 350.00 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 |
| 375.00 | 23-0 | 23-2 | 23-3 | 23-4 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 |
| 400.00 | 26-3 | 26-4 | 26-6 | 26-7 | 26-9 | 26-10 | 27-0 | 27-1 | 27-2 | 27-3 |
| 425.00 | 29-8 | 29-9 | 29-11 | 30-1 | 30-2 | 30-4 | 30-6 | 30-7 | 30-8 | 30-9 |
| 450.00 | 33-3 | 33-5 | 33-7 | 33-9 | 33-10 | 34-0 | 34-2 | 34-4 | 34-5 | 34-6 |
| 475.00 | 37-1 | 37-3 | 37-5 | 37-7 | 37-9 | 37-11 | 38-1 | 38-3 | 38-4 | 38-6 |
| 500.00 | 41-1 | 41-4 | 41-6 | 41-8 | 41-11 | 42-1 | 42-3 | 42-5 | 42-7 | 42-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-4 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 |
| 275.00 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 |
| 300.00 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 |
| 325.00 | 17-6 | 17-7 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 | 17-10 | 17-11 | 17-11 |
| 350.00 | 20-4 | 20-5 | 20-5 | 20-6 | 20-7 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 |
| 375.00 | 23-4 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 23-11 |
| 400.00 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 |
| 425.00 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-9 |
| 450.00 | 33-9 | 33-10 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-5 | 34-6 | 34-6 |
| 475.00 | 37-7 | 37-8 | 37-10 | 37-11 | 38-0 | 38-2 | 38-3 | 38-4 | 38-5 | 38-6 |
| 500.00 | 41-8 | 41-10 | 41-11 | 42-1 | 42-2 | 42-3 | 42-5 | 42-6 | 42-8 | 42-9 |
| 525.00 | 46-0 | 46-2 | 46-3 | 46-5 | 46-6 | 46-8 | 46-10 | 46-11 | 47-1 | 47-2 |
| 550.00 | 50-7 | 50-8 | 50-10 | 51-0 | 51-1 | 51-3 | 51-5 | 51-7 | 51-8 | 51-9 |
| 575.00 | 55-4 | 55-6 | 55-7 | 55-9 | 55-11 | 56-1 | 56-3 | 56-5 | 56-7 | 56-8 |
| 600.00 | 60-3 | 60-5 | 60-7 | 60-10 | 61-0 | 61-2 | 61-4 | 61-6 | 61-8 | 61-9 |
| 625.00 | 65-6 | 65-8 | 65-10 | 66-1 | 66-3 | 66-5 | 66-7 | 66-10 | 67-0 | 67-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-4 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 |
| 275.00 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 |
| 300.00 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 |
| 325.00 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 | 17-11 | 17-11 |
| 350.00 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-9 | 20-10 |
| 375.00 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 | 23-11 | 23-11 |
| 400.00 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 |
| 425.00 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-9 |
| 450.00 | 33-9 | 33-10 | 33-11 | 34-0 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-6 |
| 475.00 | 37-7 | 37-9 | 37-10 | 37-11 | 38-1 | 38-2 | 38-3 | 38-4 | 38-5 | 38-6 |
| 500.00 | 41-9 | 41-10 | 42-0 | 42-1 | 42-3 | 42-4 | 42-5 | 42-7 | 42-8 | 42-9 |
| 525.00 | 46-0 | 46-2 | 46-4 | 46-5 | 46-7 | 46-9 | 46-10 | 46-11 | 47-1 | 47-2 |
| 550.00 | 50-7 | 50-9 | 50-11 | 51-0 | 51-2 | 51-4 | 51-6 | 51-7 | 51-8 | 51-9 |
| 575.00 | 55-4 | 55-6 | 55-8 | 55-10 | 56-0 | 56-2 | 56-4 | 56-5 | 56-7 | 56-8 |
| 600.00 | 60-4 | 60-6 | 60-8 | 60-10 | 61-0 | 61-3 | 61-5 | 61-6 | 61-8 | 61-9 |
| 625.00 | 65-6 | 65-9 | 65-11 | 66-1 | 66-4 | 66-6 | 66-8 | 66-10 | 67-0 | 67-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 1.14 | 1442 | 1.1 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 0.42 | 1536 | 0.4 | 1611 |
| 30 | 0 | 0 | 0 | 0.52 | 0.53 | 1223 | 0.49 | 1334 |
| 40 | 0 | 0 | 0 | 0.52 | 0.67 | 973 | 0.6 | 1091 |
| 50 | 0 | 0 | 0 | 0.52 | 0.82 | 791 | 0.73 | 895 |
| 60 | 0 | 0 | 0 | 0.52 | 0.98 | 664 | 0.87 | 747 |
| 70 | 0 | 0 | 0 | 0.52 | 1.13 | 576 | 1.02 | 640 |
| 80 | 0 | 0 | 0 | 0.52 | 1.27 | 511 | 1.16 | 562 |
| 90 | 0 | 0 | 0 | 0.52 | 1.36 | 479 | 1.29 | 503 |
| 100 | 0 | 0 | 0 | 0.52 | 1.43 | 455 | 1.42 | 458 |
| 110 | 0 | 0 | 0 | 0.52 | 1.51 | 432 | 1.51 | 432 |
| 120 | 0 | 0 | 0 | 0.52 | 1.58 | 412 | 1.58 | 412 |
| 130 | 0 | 0 | 0 | 0.52 | 1.65 | 395 | 1.65 | 395 |
| 167 | 0 | 0 | 0 | 0.52 | 1.89 | 344 | 1.89 | 344 |
| 212 | 0 | 0 | 0 | 0.52 | 2.17 | 301 | 2.17 | 301 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 4.44 | 1484 | 4.39 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 3.47 | 751 | 3.37 | 773 |
| 30 | 0 | 0 | 0 | 0.52 | 3.67 | 709 | 3.57 | 730 |
| 40 | 0 | 0 | 0 | 0.52 | 3.87 | 673 | 3.76 | 693 |
| 50 | 0 | 0 | 0 | 0.52 | 4.06 | 642 | 3.94 | 660 |
| 60 | 0 | 0 | 0 | 0.52 | 4.24 | 615 | 4.12 | 632 |
| 70 | 0 | 0 | 0 | 0.52 | 4.41 | 590 | 4.3 | 606 |
| 80 | 0 | 0 | 0 | 0.52 | 4.58 | 568 | 4.46 | 584 |
| 90 | 0 | 0 | 0 | 0.52 | 4.75 | 549 | 4.63 | 563 |
| 100 | 0 | 0 | 0 | 0.52 | 4.85 | 537 | 4.79 | 545 |
| 110 | 0 | 0 | 0 | 0.52 | 4.95 | 527 | 4.94 | 528 |
| 120 | 0 | 0 | 0 | 0.52 | 5.05 | 516 | 5.05 | 516 |
| 130 | 0 | 0 | 0 | 0.52 | 5.15 | 506 | 5.15 | 506 |
| 167 | 0 | 0 | 0 | 0.52 | 5.49 | 475 | 5.49 | 475 |
| 212 | 0 | 0 | 0 | 0.52 | 5.89 | 443 | 5.89 | 443 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 9.95 | 1493 | 9.9 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 8.99 | 653 | 8.89 | 660 |
| 30 | 0 | 0 | 0 | 0.52 | 9.18 | 640 | 9.08 | 647 |
| 40 | 0 | 0 | 0 | 0.52 | 9.37 | 627 | 9.27 | 634 |
| 50 | 0 | 0 | 0 | 0.52 | 9.56 | 614 | 9.45 | 622 |
| 60 | 0 | 0 | 0 | 0.52 | 9.74 | 603 | 9.63 | 610 |
| 70 | 0 | 0 | 0 | 0.52 | 9.92 | 592 | 9.8 | 599 |
| 80 | 0 | 0 | 0 | 0.52 | 10.1 | 582 | 9.98 | 589 |
| 90 | 0 | 0 | 0 | 0.52 | 10.27 | 572 | 10.15 | 579 |
| 100 | 0 | 0 | 0 | 0.52 | 10.41 | 565 | 10.32 | 570 |
| 110 | 0 | 0 | 0 | 0.52 | 10.52 | 559 | 10.48 | 561 |
| 120 | 0 | 0 | 0 | 0.52 | 10.63 | 553 | 10.63 | 553 |
| 130 | 0 | 0 | 0 | 0.52 | 10.74 | 548 | 10.74 | 548 |
| 167 | 0 | 0 | 0 | 0.52 | 11.13 | 528 | 11.13 | 528 |
| 212 | 0 | 0 | 0 | 0.52 | 11.59 | 508 | 11.59 | 508 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 17.71 | 1496 | 17.66 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 16.75 | 625 | 16.66 | 629 |
| 30 | 0 | 0 | 0 | 0.52 | 16.94 | 618 | 16.84 | 622 |
| 40 | 0 | 0 | 0 | 0.52 | 17.13 | 612 | 17.03 | 615 |
| 50 | 0 | 0 | 0 | 0.52 | 17.32 | 605 | 17.21 | 609 |
| 60 | 0 | 0 | 0 | 0.52 | 17.5 | 599 | 17.39 | 603 |
| 70 | 0 | 0 | 0 | 0.52 | 17.68 | 593 | 17.56 | 597 |
| 80 | 0 | 0 | 0 | 0.52 | 17.86 | 587 | 17.74 | 591 |
| 90 | 0 | 0 | 0 | 0.52 | 18.04 | 581 | 17.91 | 585 |
| 100 | 0 | 0 | 0 | 0.52 | 18.19 | 577 | 18.09 | 580 |
| 110 | 0 | 0 | 0 | 0.52 | 18.3 | 573 | 18.26 | 574 |
| 120 | 0 | 0 | 0 | 0.52 | 18.42 | 569 | 18.42 | 569 |
| 130 | 0 | 0 | 0 | 0.52 | 18.53 | 566 | 18.53 | 566 |
| 167 | 0 | 0 | 0 | 0.52 | 18.95 | 554 | 18.95 | 554 |
| 212 | 0 | 0 | 0 | 0.52 | 19.45 | 540 | 19.45 | 540 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 27.77 | 1498 | 27.72 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 26.82 | 613 | 26.72 | 615 |
| 30 | 0 | 0 | 0 | 0.52 | 27 | 609 | 26.9 | 611 |
| 40 | 0 | 0 | 0 | 0.52 | 27.19 | 605 | 27.08 | 607 |
| 50 | 0 | 0 | 0 | 0.52 | 27.37 | 601 | 27.26 | 603 |
| 60 | 0 | 0 | 0 | 0.52 | 27.56 | 597 | 27.44 | 599 |
| 70 | 0 | 0 | 0 | 0.52 | 27.74 | 593 | 27.62 | 596 |
| 80 | 0 | 0 | 0 | 0.52 | 27.92 | 589 | 27.8 | 592 |
| 90 | 0 | 0 | 0 | 0.52 | 28.1 | 586 | 27.97 | 588 |
| 100 | 0 | 0 | 0 | 0.52 | 28.25 | 583 | 28.15 | 585 |
| 110 | 0 | 0 | 0 | 0.52 | 28.37 | 580 | 28.32 | 581 |
| 120 | 0 | 0 | 0 | 0.52 | 28.49 | 578 | 28.49 | 578 |
| 130 | 0 | 0 | 0 | 0.52 | 28.61 | 575 | 28.61 | 575 |
| 167 | 0 | 0 | 0 | 0.52 | 29.04 | 567 | 29.04 | 567 |
| 212 | 0 | 0 | 0 | 0.52 | 29.55 | 558 | 29.55 | 558 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-9 | 0-11 | 1-2 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-4 |
| 150.00 | 0-11 | 1-1 | 1-4 | 1-8 | 1-11 | 2-3 | 2-7 | 2-11 | 3-2 | 3-5 |
| 175.00 | 1-3 | 1-6 | 1-10 | 2-3 | 2-8 | 3-1 | 3-7 | 4-0 | 4-4 | 4-7 |
| 200.00 | 1-7 | 1-11 | 2-5 | 2-11 | 3-6 | 4-1 | 4-8 | 5-2 | 5-8 | 6-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-10 | 1-1 | 1-3 | 1-6 | 1-9 | 2-0 | 2-1 | 2-3 | 2-4 |
| 150.00 | 0-11 | 1-2 | 1-6 | 1-10 | 2-2 | 2-7 | 2-10 | 3-1 | 3-3 | 3-5 |
| 175.00 | 1-4 | 1-8 | 2-1 | 2-6 | 3-0 | 3-6 | 3-11 | 4-2 | 4-5 | 4-7 |
| 200.00 | 1-8 | 2-2 | 2-8 | 3-3 | 3-11 | 4-6 | 5-1 | 5-5 | 5-9 | 6-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 150.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 |
| 200.00 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 |
| 225.00 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 |
| 250.00 | 5-3 | 5-7 | 5-10 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 175.00 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-9 |
| 200.00 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 | 4-11 |
| 225.00 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-0 | 6-2 | 6-3 |
| 250.00 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 175.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 225.00 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 |
| 250.00 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 |
| 275.00 | 7-6 | 7-8 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 |
| 300.00 | 8-11 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 |
| 325.00 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-1 | 12-4 |
| 350.00 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-3 |
| 375.00 | 13-11 | 14-2 | 14-6 | 14-9 | 15-1 | 15-4 | 15-7 | 15-10 | 16-2 | 16-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 |
| 175.00 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 |
| 200.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 |
| 225.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 250.00 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 |
| 275.00 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-10 |
| 300.00 | 9-0 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-6 |
| 325.00 | 10-7 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-10 | 12-1 | 12-3 | 12-4 |
| 350.00 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-2 | 14-4 |
| 375.00 | 14-1 | 14-4 | 14-8 | 14-11 | 15-3 | 15-6 | 15-10 | 16-1 | 16-3 | 16-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 |
| 225.00 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 |
| 250.00 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 |
| 275.00 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 300.00 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-3 |
| 325.00 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 |
| 350.00 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 |
| 375.00 | 14-8 | 14-10 | 15-0 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 |
| 400.00 | 16-8 | 16-10 | 17-0 | 17-2 | 17-5 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 |
| 425.00 | 18-10 | 19-0 | 19-3 | 19-5 | 19-8 | 19-10 | 20-0 | 20-3 | 20-5 | 20-7 |
| 450.00 | 21-1 | 21-4 | 21-7 | 21-9 | 22-0 | 22-3 | 22-6 | 22-8 | 22-11 | 23-2 |
| 475.00 | 23-6 | 23-9 | 24-0 | 24-3 | 24-7 | 24-10 | 25-1 | 25-3 | 25-6 | 25-9 |
| 500.00 | 26-1 | 26-4 | 26-8 | 26-11 | 27-2 | 27-6 | 27-9 | 28-0 | 28-4 | 28-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 |
| 225.00 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 |
| 250.00 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 |
| 275.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 300.00 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-3 |
| 325.00 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 |
| 350.00 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 | 13-6 | 13-8 | 13-10 | 13-11 | 14-0 |
| 375.00 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-6 | 15-8 | 15-10 | 16-0 | 16-1 |
| 400.00 | 16-9 | 16-11 | 17-2 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 |
| 425.00 | 18-11 | 19-2 | 19-4 | 19-7 | 19-9 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 |
| 450.00 | 21-3 | 21-5 | 21-8 | 21-11 | 22-2 | 22-5 | 22-7 | 22-10 | 23-0 | 23-2 |
| 475.00 | 23-8 | 23-11 | 24-2 | 24-5 | 24-8 | 25-0 | 25-3 | 25-6 | 25-8 | 25-10 |
| 500.00 | 26-3 | 26-6 | 26-10 | 27-1 | 27-5 | 27-8 | 27-11 | 28-3 | 28-6 | 28-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 |
| 275.00 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 |
| 300.00 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 |
| 325.00 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 |
| 350.00 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 |
| 375.00 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 |
| 400.00 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 | 17-8 | 17-9 | 17-11 | 18-0 | 18-1 |
| 425.00 | 19-3 | 19-5 | 19-7 | 19-8 | 19-10 | 19-11 | 20-1 | 20-2 | 20-4 | 20-5 |
| 450.00 | 21-8 | 21-9 | 21-11 | 22-1 | 22-3 | 22-4 | 22-6 | 22-8 | 22-9 | 22-11 |
| 475.00 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-5 | 25-7 |
| 500.00 | 26-9 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-10 | 28-0 | 28-2 | 28-4 |
| 525.00 | 29-6 | 29-8 | 29-10 | 30-1 | 30-3 | 30-6 | 30-8 | 30-10 | 31-1 | 31-3 |
| 550.00 | 32-4 | 32-7 | 32-10 | 33-0 | 33-3 | 33-5 | 33-8 | 33-11 | 34-1 | 34-4 |
| 575.00 | 35-5 | 35-7 | 35-10 | 36-1 | 36-4 | 36-7 | 36-10 | 37-1 | 37-3 | 37-6 |
| 600.00 | 38-7 | 38-10 | 39-1 | 39-4 | 39-7 | 39-10 | 40-1 | 40-4 | 40-7 | 40-10 |
| 625.00 | 41-10 | 42-2 | 42-5 | 42-8 | 43-0 | 43-3 | 43-6 | 43-10 | 44-1 | 44-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-0 | 7-1 |
| 275.00 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 |
| 300.00 | 9-8 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-2 |
| 325.00 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 11-11 |
| 350.00 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-10 |
| 375.00 | 15-1 | 15-2 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 |
| 400.00 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-9 | 17-10 | 17-11 | 18-1 | 18-2 |
| 425.00 | 19-4 | 19-6 | 19-7 | 19-9 | 19-11 | 20-0 | 20-2 | 20-3 | 20-5 | 20-6 |
| 450.00 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-5 | 22-7 | 22-9 | 22-10 | 23-0 |
| 475.00 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 | 25-7 |
| 500.00 | 26-10 | 27-0 | 27-2 | 27-4 | 27-7 | 27-9 | 27-11 | 28-1 | 28-3 | 28-4 |
| 525.00 | 29-7 | 29-9 | 30-0 | 30-2 | 30-5 | 30-7 | 30-10 | 31-0 | 31-2 | 31-4 |
| 550.00 | 32-6 | 32-8 | 32-11 | 33-2 | 33-4 | 33-7 | 33-10 | 34-0 | 34-3 | 34-4 |
| 575.00 | 35-6 | 35-9 | 36-0 | 36-3 | 36-6 | 36-9 | 37-0 | 37-3 | 37-5 | 37-7 |
| 600.00 | 38-8 | 38-11 | 39-3 | 39-6 | 39-9 | 40-0 | 40-3 | 40-6 | 40-9 | 40-11 |
| 625.00 | 42-0 | 42-3 | 42-7 | 42-10 | 43-2 | 43-5 | 43-9 | 44-0 | 44-3 | 44-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 0.9 | 1826 | 0.82 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 0.28 | 2325 | 0.26 | 2472 |
| 30 | 0 | 0 | 0 | 0.52 | 0.34 | 1939 | 0.3 | 2162 |
| 40 | 0 | 0 | 0 | 0.52 | 0.41 | 1578 | 0.35 | 1856 |
| 50 | 0 | 0 | 0 | 0.52 | 0.52 | 1258 | 0.42 | 1560 |
| 60 | 0 | 0 | 0 | 0.52 | 0.65 | 1000 | 0.51 | 1286 |
| 70 | 0 | 0 | 0 | 0.52 | 0.8 | 810 | 0.62 | 1049 |
| 80 | 0 | 0 | 0 | 0.52 | 0.96 | 678 | 0.75 | 862 |
| 90 | 0 | 0 | 0 | 0.52 | 1.05 | 617 | 0.9 | 722 |
| 100 | 0 | 0 | 0 | 0.52 | 1.13 | 576 | 1.05 | 622 |
| 110 | 0 | 0 | 0 | 0.52 | 1.2 | 540 | 1.19 | 548 |
| 120 | 0 | 0 | 0 | 0.52 | 1.28 | 507 | 1.28 | 507 |
| 130 | 0 | 0 | 0 | 0.52 | 1.36 | 479 | 1.36 | 479 |
| 167 | 0 | 0 | 0 | 0.52 | 1.62 | 401 | 1.62 | 401 |
| 212 | 0 | 0 | 0 | 0.52 | 1.92 | 339 | 1.92 | 339 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 3.38 | 1945 | 3.29 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 2.02 | 1287 | 1.86 | 1402 |
| 30 | 0 | 0 | 0 | 0.52 | 2.27 | 1146 | 2.08 | 1252 |
| 40 | 0 | 0 | 0 | 0.52 | 2.52 | 1033 | 2.31 | 1128 |
| 50 | 0 | 0 | 0 | 0.52 | 2.76 | 943 | 2.54 | 1026 |
| 60 | 0 | 0 | 0 | 0.52 | 2.99 | 870 | 2.76 | 942 |
| 70 | 0 | 0 | 0 | 0.52 | 3.21 | 810 | 2.98 | 873 |
| 80 | 0 | 0 | 0 | 0.52 | 3.43 | 760 | 3.19 | 815 |
| 90 | 0 | 0 | 0 | 0.52 | 3.63 | 717 | 3.4 | 766 |
| 100 | 0 | 0 | 0 | 0.52 | 3.79 | 687 | 3.6 | 724 |
| 110 | 0 | 0 | 0 | 0.52 | 3.9 | 667 | 3.79 | 687 |
| 120 | 0 | 0 | 0 | 0.52 | 4.02 | 649 | 3.97 | 655 |
| 130 | 0 | 0 | 0 | 0.52 | 4.13 | 631 | 4.13 | 631 |
| 167 | 0 | 0 | 0 | 0.52 | 4.53 | 576 | 4.53 | 576 |
| 212 | 0 | 0 | 0 | 0.52 | 4.98 | 523 | 4.98 | 523 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 7.5 | 1975 | 7.41 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 6.06 | 967 | 5.85 | 1001 |
| 30 | 0 | 0 | 0 | 0.52 | 6.33 | 927 | 6.11 | 959 |
| 40 | 0 | 0 | 0 | 0.52 | 6.58 | 890 | 6.36 | 921 |
| 50 | 0 | 0 | 0 | 0.52 | 6.83 | 858 | 6.61 | 887 |
| 60 | 0 | 0 | 0 | 0.52 | 7.08 | 829 | 6.85 | 856 |
| 70 | 0 | 0 | 0 | 0.52 | 7.31 | 802 | 7.08 | 828 |
| 80 | 0 | 0 | 0 | 0.52 | 7.54 | 778 | 7.31 | 802 |
| 90 | 0 | 0 | 0 | 0.52 | 7.77 | 755 | 7.53 | 779 |
| 100 | 0 | 0 | 0 | 0.52 | 7.99 | 734 | 7.75 | 757 |
| 110 | 0 | 0 | 0 | 0.52 | 8.13 | 721 | 7.96 | 737 |
| 120 | 0 | 0 | 0 | 0.52 | 8.27 | 710 | 8.17 | 718 |
| 130 | 0 | 0 | 0 | 0.52 | 8.4 | 699 | 8.37 | 701 |
| 167 | 0 | 0 | 0 | 0.52 | 8.87 | 662 | 8.87 | 662 |
| 212 | 0 | 0 | 0 | 0.52 | 9.42 | 623 | 9.42 | 623 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 13.29 | 1986 | 13.2 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 11.85 | 881 | 11.64 | 896 |
| 30 | 0 | 0 | 0 | 0.52 | 12.1 | 862 | 11.9 | 877 |
| 40 | 0 | 0 | 0 | 0.52 | 12.36 | 845 | 12.14 | 860 |
| 50 | 0 | 0 | 0 | 0.52 | 12.61 | 828 | 12.39 | 843 |
| 60 | 0 | 0 | 0 | 0.52 | 12.85 | 813 | 12.63 | 827 |
| 70 | 0 | 0 | 0 | 0.52 | 13.09 | 798 | 12.86 | 812 |
| 80 | 0 | 0 | 0 | 0.52 | 13.33 | 784 | 13.09 | 798 |
| 90 | 0 | 0 | 0 | 0.52 | 13.56 | 770 | 13.32 | 784 |
| 100 | 0 | 0 | 0 | 0.52 | 13.79 | 758 | 13.55 | 771 |
| 110 | 0 | 0 | 0 | 0.52 | 13.98 | 748 | 13.77 | 759 |
| 120 | 0 | 0 | 0 | 0.52 | 14.12 | 740 | 13.99 | 747 |
| 130 | 0 | 0 | 0 | 0.52 | 14.26 | 733 | 14.21 | 736 |
| 167 | 0 | 0 | 0 | 0.52 | 14.78 | 707 | 14.78 | 707 |
| 212 | 0 | 0 | 0 | 0.52 | 15.39 | 680 | 15.39 | 680 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 20.77 | 1991 | 20.68 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 19.32 | 846 | 19.13 | 855 |
| 30 | 0 | 0 | 0 | 0.52 | 19.58 | 835 | 19.37 | 844 |
| 40 | 0 | 0 | 0 | 0.52 | 19.83 | 825 | 19.62 | 833 |
| 50 | 0 | 0 | 0 | 0.52 | 20.08 | 815 | 19.86 | 823 |
| 60 | 0 | 0 | 0 | 0.52 | 20.32 | 805 | 20.1 | 814 |
| 70 | 0 | 0 | 0 | 0.52 | 20.57 | 796 | 20.33 | 804 |
| 80 | 0 | 0 | 0 | 0.52 | 20.8 | 786 | 20.57 | 795 |
| 90 | 0 | 0 | 0 | 0.52 | 21.04 | 778 | 20.8 | 787 |
| 100 | 0 | 0 | 0 | 0.52 | 21.28 | 769 | 21.03 | 778 |
| 110 | 0 | 0 | 0 | 0.52 | 21.48 | 762 | 21.26 | 770 |
| 120 | 0 | 0 | 0 | 0.52 | 21.63 | 757 | 21.49 | 762 |
| 130 | 0 | 0 | 0 | 0.52 | 21.78 | 752 | 21.71 | 754 |
| 167 | 0 | 0 | 0 | 0.52 | 22.33 | 734 | 22.33 | 734 |
| 212 | 0 | 0 | 0 | 0.52 | 22.97 | 713 | 22.97 | 713 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 1-0 | 1-2 | 1-5 | 1-8 | 1-10 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 | 2-8 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-7 | 1-11 | 2-4 | 2-9 | 3-2 | 3-8 |
| 200.00 | 1-1 | 1-2 | 1-5 | 1-8 | 2-0 | 2-6 | 3-0 | 3-7 | 4-2 | 4-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-2 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-9 | 1-11 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-2 | 2-4 | 2-6 | 2-9 |
| 175.00 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-6 | 2-11 | 3-3 | 3-6 | 3-8 |
| 200.00 | 1-1 | 1-4 | 1-8 | 2-1 | 2-7 | 3-3 | 3-10 | 4-3 | 4-6 | 4-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 |
| 175.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 200.00 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 |
| 225.00 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 |
| 250.00 | 2-11 | 3-3 | 3-7 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-7 | 5-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 |
| 150.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-2 |
| 175.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-9 | 3-11 |
| 225.00 | 2-7 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 4-11 |
| 250.00 | 3-2 | 3-7 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 175.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 |
| 200.00 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 225.00 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 |
| 250.00 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 |
| 275.00 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 |
| 300.00 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-6 | 7-9 | 8-0 |
| 325.00 | 6-10 | 7-2 | 7-6 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 |
| 350.00 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-7 | 10-10 |
| 375.00 | 9-2 | 9-7 | 9-11 | 10-4 | 10-8 | 11-1 | 11-5 | 11-9 | 12-1 | 12-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 |
| 175.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 200.00 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-7 |
| 225.00 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 |
| 250.00 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 |
| 275.00 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-10 |
| 300.00 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-2 |
| 325.00 | 7-1 | 7-5 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 | 9-1 | 9-5 | 9-7 |
| 350.00 | 8-3 | 8-7 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-7 | 10-11 | 11-1 |
| 375.00 | 9-6 | 9-11 | 10-3 | 10-8 | 11-1 | 11-5 | 11-9 | 12-2 | 12-6 | 12-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 |
| 225.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 |
| 250.00 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 275.00 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 |
| 300.00 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 |
| 325.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 |
| 350.00 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 |
| 375.00 | 10-3 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-6 | 11-8 | 11-11 | 12-1 |
| 400.00 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-10 | 13-1 | 13-4 | 13-7 | 13-9 |
| 425.00 | 13-2 | 13-5 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 | 15-1 | 15-4 | 15-7 |
| 450.00 | 14-9 | 15-1 | 15-4 | 15-8 | 16-0 | 16-3 | 16-7 | 16-10 | 17-2 | 17-5 |
| 475.00 | 16-5 | 16-9 | 17-2 | 17-6 | 17-10 | 18-2 | 18-6 | 18-10 | 19-1 | 19-5 |
| 500.00 | 18-2 | 18-7 | 19-0 | 19-4 | 19-9 | 20-1 | 20-6 | 20-10 | 21-2 | 21-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 |
| 225.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 |
| 250.00 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-5 |
| 275.00 | 5-7 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-7 |
| 300.00 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 |
| 325.00 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 |
| 350.00 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-5 | 10-7 | 10-8 |
| 375.00 | 10-5 | 10-8 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-1 | 12-3 |
| 400.00 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-0 |
| 425.00 | 13-5 | 13-8 | 13-11 | 14-3 | 14-6 | 14-9 | 15-1 | 15-4 | 15-7 | 15-9 |
| 450.00 | 15-0 | 15-4 | 15-8 | 16-0 | 16-3 | 16-7 | 16-11 | 17-2 | 17-6 | 17-8 |
| 475.00 | 16-9 | 17-1 | 17-5 | 17-9 | 18-2 | 18-6 | 18-10 | 19-2 | 19-6 | 19-9 |
| 500.00 | 18-6 | 18-11 | 19-4 | 19-9 | 20-1 | 20-6 | 20-10 | 21-3 | 21-7 | 21-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 |
| 275.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 |
| 300.00 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 325.00 | 8-1 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 |
| 350.00 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 |
| 375.00 | 10-9 | 10-11 | 11-0 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 |
| 400.00 | 12-3 | 12-5 | 12-7 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 |
| 425.00 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 |
| 450.00 | 15-6 | 15-8 | 15-11 | 16-1 | 16-3 | 16-6 | 16-8 | 16-10 | 17-0 | 17-3 |
| 475.00 | 17-3 | 17-6 | 17-8 | 17-11 | 18-2 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 |
| 500.00 | 19-2 | 19-4 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-0 | 21-3 |
| 525.00 | 21-1 | 21-4 | 21-8 | 21-11 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 |
| 550.00 | 23-2 | 23-5 | 23-9 | 24-0 | 24-4 | 24-7 | 24-11 | 25-2 | 25-6 | 25-9 |
| 575.00 | 25-4 | 25-8 | 26-0 | 26-3 | 26-7 | 26-11 | 27-3 | 27-6 | 27-10 | 28-2 |
| 600.00 | 27-7 | 27-11 | 28-3 | 28-7 | 29-0 | 29-4 | 29-8 | 30-0 | 30-4 | 30-8 |
| 625.00 | 29-11 | 30-4 | 30-8 | 31-1 | 31-5 | 31-10 | 32-2 | 32-7 | 32-11 | 33-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 |
| 275.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-6 |
| 300.00 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 |
| 325.00 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 |
| 350.00 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-6 |
| 375.00 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 |
| 400.00 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 |
| 425.00 | 13-11 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 |
| 450.00 | 15-8 | 15-10 | 16-1 | 16-3 | 16-5 | 16-8 | 16-10 | 17-0 | 17-3 | 17-5 |
| 475.00 | 17-5 | 17-8 | 17-11 | 18-1 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 | 19-5 |
| 500.00 | 19-4 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-3 | 21-6 |
| 525.00 | 21-4 | 21-7 | 21-10 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-6 | 23-8 |
| 550.00 | 23-5 | 23-8 | 24-0 | 24-4 | 24-7 | 24-11 | 25-2 | 25-6 | 25-9 | 26-0 |
| 575.00 | 25-7 | 25-11 | 26-3 | 26-7 | 26-11 | 27-3 | 27-6 | 27-10 | 28-2 | 28-5 |
| 600.00 | 27-10 | 28-3 | 28-7 | 28-11 | 29-4 | 29-8 | 30-0 | 30-4 | 30-8 | 31-0 |
| 625.00 | 30-3 | 30-8 | 31-0 | 31-5 | 31-10 | 32-2 | 32-7 | 32-11 | 33-3 | 33-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 0.77 | 2147 | 0.66 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 0.23 | 2853 | 0.21 | 3135 |
| 30 | 0 | 0 | 0 | 0.52 | 0.27 | 2451 | 0.23 | 2827 |
| 40 | 0 | 0 | 0 | 0.52 | 0.32 | 2060 | 0.26 | 2517 |
| 50 | 0 | 0 | 0 | 0.52 | 0.38 | 1690 | 0.29 | 2205 |
| 60 | 0 | 0 | 0 | 0.52 | 0.48 | 1354 | 0.34 | 1895 |
| 70 | 0 | 0 | 0 | 0.52 | 0.6 | 1075 | 0.41 | 1596 |
| 80 | 0 | 0 | 0 | 0.52 | 0.75 | 863 | 0.49 | 1316 |
| 90 | 0 | 0 | 0 | 0.52 | 0.84 | 771 | 0.61 | 1073 |
| 100 | 0 | 0 | 0 | 0.52 | 0.91 | 713 | 0.74 | 879 |
| 110 | 0 | 0 | 0 | 0.52 | 0.98 | 662 | 0.88 | 735 |
| 120 | 0 | 0 | 0 | 0.52 | 1.06 | 616 | 1.03 | 630 |
| 130 | 0 | 0 | 0 | 0.52 | 1.13 | 575 | 1.13 | 577 |
| 167 | 0 | 0 | 0 | 0.52 | 1.41 | 462 | 1.4 | 463 |
| 212 | 0 | 0 | 0 | 0.52 | 1.73 | 377 | 1.72 | 378 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 2.79 | 2360 | 2.63 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 1.28 | 2026 | 1.14 | 2286 |
| 30 | 0 | 0 | 0 | 0.52 | 1.49 | 1750 | 1.28 | 2030 |
| 40 | 0 | 0 | 0 | 0.52 | 1.71 | 1519 | 1.45 | 1794 |
| 50 | 0 | 0 | 0 | 0.52 | 1.96 | 1330 | 1.64 | 1584 |
| 60 | 0 | 0 | 0 | 0.52 | 2.2 | 1180 | 1.85 | 1403 |
| 70 | 0 | 0 | 0 | 0.52 | 2.45 | 1060 | 2.08 | 1252 |
| 80 | 0 | 0 | 0 | 0.52 | 2.7 | 965 | 2.31 | 1127 |
| 90 | 0 | 0 | 0 | 0.52 | 2.93 | 888 | 2.54 | 1025 |
| 100 | 0 | 0 | 0 | 0.52 | 3.12 | 834 | 2.77 | 941 |
| 110 | 0 | 0 | 0 | 0.52 | 3.24 | 804 | 2.99 | 872 |
| 120 | 0 | 0 | 0 | 0.52 | 3.36 | 775 | 3.2 | 814 |
| 130 | 0 | 0 | 0 | 0.52 | 3.48 | 749 | 3.41 | 764 |
| 167 | 0 | 0 | 0 | 0.52 | 3.9 | 667 | 3.9 | 668 |
| 212 | 0 | 0 | 0 | 0.52 | 4.39 | 593 | 4.39 | 593 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 6.08 | 2436 | 5.92 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 4.15 | 1410 | 3.82 | 1533 |
| 30 | 0 | 0 | 0 | 0.52 | 4.47 | 1309 | 4.12 | 1422 |
| 40 | 0 | 0 | 0 | 0.52 | 4.78 | 1224 | 4.41 | 1327 |
| 50 | 0 | 0 | 0 | 0.52 | 5.09 | 1151 | 4.71 | 1244 |
| 60 | 0 | 0 | 0 | 0.52 | 5.38 | 1088 | 4.99 | 1173 |
| 70 | 0 | 0 | 0 | 0.52 | 5.67 | 1033 | 5.28 | 1110 |
| 80 | 0 | 0 | 0 | 0.52 | 5.95 | 985 | 5.55 | 1055 |
| 90 | 0 | 0 | 0 | 0.52 | 6.22 | 943 | 5.82 | 1007 |
| 100 | 0 | 0 | 0 | 0.52 | 6.48 | 905 | 6.08 | 964 |
| 110 | 0 | 0 | 0 | 0.52 | 6.69 | 876 | 6.33 | 925 |
| 120 | 0 | 0 | 0 | 0.52 | 6.84 | 857 | 6.58 | 891 |
| 130 | 0 | 0 | 0 | 0.52 | 6.99 | 839 | 6.82 | 859 |
| 167 | 0 | 0 | 0 | 0.52 | 7.51 | 781 | 7.51 | 781 |
| 212 | 0 | 0 | 0 | 0.52 | 8.12 | 722 | 8.12 | 722 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 10.7 | 2464 | 10.54 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 8.7 | 1198 | 8.34 | 1249 |
| 30 | 0 | 0 | 0 | 0.52 | 9.02 | 1155 | 8.66 | 1204 |
| 40 | 0 | 0 | 0 | 0.52 | 9.34 | 1116 | 8.97 | 1162 |
| 50 | 0 | 0 | 0 | 0.52 | 9.65 | 1080 | 9.27 | 1124 |
| 60 | 0 | 0 | 0 | 0.52 | 9.96 | 1047 | 9.57 | 1089 |
| 70 | 0 | 0 | 0 | 0.52 | 10.25 | 1017 | 9.86 | 1057 |
| 80 | 0 | 0 | 0 | 0.52 | 10.54 | 989 | 10.15 | 1027 |
| 90 | 0 | 0 | 0 | 0.52 | 10.83 | 963 | 10.43 | 1000 |
| 100 | 0 | 0 | 0 | 0.52 | 11.11 | 939 | 10.71 | 974 |
| 110 | 0 | 0 | 0 | 0.52 | 11.38 | 917 | 10.98 | 950 |
| 120 | 0 | 0 | 0 | 0.52 | 11.57 | 902 | 11.24 | 928 |
| 130 | 0 | 0 | 0 | 0.52 | 11.73 | 890 | 11.51 | 907 |
| 167 | 0 | 0 | 0 | 0.52 | 12.32 | 847 | 12.32 | 847 |
| 212 | 0 | 0 | 0 | 0.52 | 13.02 | 802 | 13.02 | 802 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 16.65 | 2478 | 16.5 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 14.64 | 1114 | 14.29 | 1141 |
| 30 | 0 | 0 | 0 | 0.52 | 14.96 | 1090 | 14.6 | 1117 |
| 40 | 0 | 0 | 0 | 0.52 | 15.27 | 1068 | 14.91 | 1094 |
| 50 | 0 | 0 | 0 | 0.52 | 15.59 | 1047 | 15.21 | 1072 |
| 60 | 0 | 0 | 0 | 0.52 | 15.89 | 1027 | 15.51 | 1052 |
| 70 | 0 | 0 | 0 | 0.52 | 16.19 | 1008 | 15.81 | 1032 |
| 80 | 0 | 0 | 0 | 0.52 | 16.49 | 990 | 16.1 | 1014 |
| 90 | 0 | 0 | 0 | 0.52 | 16.78 | 973 | 16.39 | 996 |
| 100 | 0 | 0 | 0 | 0.52 | 17.07 | 956 | 16.67 | 979 |
| 110 | 0 | 0 | 0 | 0.52 | 17.35 | 941 | 16.95 | 963 |
| 120 | 0 | 0 | 0 | 0.52 | 17.59 | 928 | 17.23 | 948 |
| 130 | 0 | 0 | 0 | 0.52 | 17.77 | 919 | 17.5 | 933 |
| 167 | 0 | 0 | 0 | 0.52 | 18.4 | 888 | 18.4 | 888 |
| 212 | 0 | 0 | 0 | 0.52 | 19.15 | 853 | 19.15 | 853 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 |
| 175.00 | 0-8 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-6 | 1-10 | 2-3 | 2-9 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-8 | 2-0 | 2-5 | 3-0 | 3-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-0 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-4 | 1-5 | 1-6 |
| 150.00 | 0-6 | 0-7 | 0-9 | 0-10 | 1-1 | 1-4 | 1-8 | 1-11 | 2-1 | 2-3 |
| 175.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-4 | 2-7 | 2-10 | 3-0 |
| 200.00 | 0-11 | 1-1 | 1-3 | 1-6 | 1-11 | 2-5 | 3-0 | 3-5 | 3-8 | 3-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 |
| 175.00 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 |
| 225.00 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-9 |
| 250.00 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-7 | 4-0 | 4-4 | 4-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-3 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 |
| 200.00 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-3 |
| 225.00 | 1-7 | 1-11 | 2-2 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 3-11 | 4-1 |
| 250.00 | 2-0 | 2-4 | 2-8 | 3-1 | 3-5 | 3-10 | 4-3 | 4-7 | 4-10 | 5-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 |
| 225.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 |
| 250.00 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 |
| 275.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 |
| 300.00 | 3-10 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-4 |
| 325.00 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 |
| 350.00 | 5-2 | 5-7 | 6-0 | 6-5 | 6-10 | 7-2 | 7-7 | 7-11 | 8-3 | 8-7 |
| 375.00 | 6-0 | 6-5 | 6-11 | 7-4 | 7-10 | 8-3 | 8-8 | 9-1 | 9-6 | 9-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 175.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 200.00 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 |
| 225.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 |
| 250.00 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 |
| 275.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-7 |
| 300.00 | 4-2 | 4-6 | 4-9 | 5-1 | 5-5 | 5-8 | 5-11 | 6-3 | 6-6 | 6-8 |
| 325.00 | 4-10 | 5-3 | 5-7 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 | 7-10 |
| 350.00 | 5-8 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-1 | 8-6 | 8-10 | 9-1 |
| 375.00 | 6-6 | 7-0 | 7-6 | 7-11 | 8-5 | 8-10 | 9-4 | 9-9 | 10-1 | 10-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-9 |
| 225.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 |
| 250.00 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 |
| 275.00 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 |
| 300.00 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-2 |
| 325.00 | 5-6 | 5-9 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 |
| 350.00 | 6-5 | 6-8 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-2 | 8-5 |
| 375.00 | 7-4 | 7-7 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 |
| 400.00 | 8-4 | 8-8 | 9-0 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-9 | 11-0 |
| 425.00 | 9-5 | 9-9 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-9 | 12-1 | 12-5 |
| 450.00 | 10-7 | 10-11 | 11-4 | 11-9 | 12-1 | 12-6 | 12-10 | 13-2 | 13-7 | 13-11 |
| 475.00 | 11-9 | 12-3 | 12-8 | 13-1 | 13-6 | 13-11 | 14-4 | 14-9 | 15-1 | 15-6 |
| 500.00 | 13-0 | 13-6 | 14-0 | 14-6 | 15-0 | 15-5 | 15-10 | 16-4 | 16-9 | 17-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 |
| 225.00 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 250.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 |
| 275.00 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 |
| 300.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 |
| 325.00 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 |
| 350.00 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-9 |
| 375.00 | 7-8 | 7-11 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 |
| 400.00 | 8-8 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-7 | 10-10 | 11-1 | 11-5 |
| 425.00 | 9-10 | 10-2 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 | 12-6 | 12-10 |
| 450.00 | 11-0 | 11-5 | 11-10 | 12-3 | 12-7 | 13-0 | 13-4 | 13-8 | 14-1 | 14-5 |
| 475.00 | 12-3 | 12-9 | 13-2 | 13-7 | 14-1 | 14-6 | 14-10 | 15-3 | 15-8 | 16-1 |
| 500.00 | 13-7 | 14-1 | 14-7 | 15-1 | 15-7 | 16-0 | 16-6 | 16-11 | 17-4 | 17-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 275.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 300.00 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 |
| 325.00 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-2 |
| 350.00 | 7-0 | 7-2 | 7-4 | 7-5 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 | 8-4 |
| 375.00 | 8-0 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 |
| 400.00 | 9-2 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-10 |
| 425.00 | 10-4 | 10-7 | 10-9 | 11-0 | 11-2 | 11-5 | 11-8 | 11-10 | 12-0 | 12-3 |
| 450.00 | 11-7 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-0 | 13-3 | 13-6 | 13-9 |
| 475.00 | 12-11 | 13-2 | 13-5 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 | 15-1 | 15-4 |
| 500.00 | 14-3 | 14-7 | 14-11 | 15-3 | 15-6 | 15-10 | 16-1 | 16-5 | 16-8 | 16-11 |
| 525.00 | 15-9 | 16-1 | 16-5 | 16-9 | 17-1 | 17-5 | 17-9 | 18-1 | 18-5 | 18-8 |
| 550.00 | 17-3 | 17-8 | 18-1 | 18-5 | 18-9 | 19-2 | 19-6 | 19-10 | 20-2 | 20-6 |
| 575.00 | 18-11 | 19-4 | 19-9 | 20-2 | 20-6 | 20-11 | 21-4 | 21-8 | 22-1 | 22-5 |
| 600.00 | 20-7 | 21-0 | 21-6 | 21-11 | 22-4 | 22-9 | 23-2 | 23-7 | 24-0 | 24-5 |
| 625.00 | 22-4 | 22-10 | 23-4 | 23-9 | 24-3 | 24-9 | 25-2 | 25-7 | 26-1 | 26-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 |
| 275.00 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 300.00 | 5-3 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 |
| 325.00 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-4 |
| 350.00 | 7-2 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 | 8-6 |
| 375.00 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 |
| 400.00 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-4 | 10-7 | 10-9 | 10-11 | 11-1 |
| 425.00 | 10-7 | 10-10 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 | 12-1 | 12-4 | 12-6 |
| 450.00 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 |
| 475.00 | 13-2 | 13-6 | 13-9 | 14-1 | 14-4 | 14-7 | 14-11 | 15-2 | 15-5 | 15-8 |
| 500.00 | 14-8 | 14-11 | 15-3 | 15-7 | 15-11 | 16-2 | 16-6 | 16-9 | 17-1 | 17-4 |
| 525.00 | 16-2 | 16-6 | 16-10 | 17-2 | 17-6 | 17-10 | 18-2 | 18-6 | 18-10 | 19-2 |
| 550.00 | 17-9 | 18-1 | 18-6 | 18-10 | 19-3 | 19-7 | 19-11 | 20-4 | 20-8 | 21-0 |
| 575.00 | 19-4 | 19-9 | 20-3 | 20-7 | 21-0 | 21-5 | 21-10 | 22-2 | 22-7 | 23-0 |
| 600.00 | 21-1 | 21-7 | 22-0 | 22-5 | 22-11 | 23-4 | 23-9 | 24-2 | 24-7 | 25-0 |
| 625.00 | 22-11 | 23-5 | 23-11 | 24-4 | 24-10 | 25-4 | 25-9 | 26-3 | 26-8 | 27-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 0.67 | 2449 | 0.55 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 0.2 | 3284 | 0.18 | 3710 |
| 30 | 0 | 0 | 0 | 0.52 | 0.23 | 2875 | 0.19 | 3410 |
| 40 | 0 | 0 | 0 | 0.52 | 0.26 | 2472 | 0.21 | 3105 |
| 50 | 0 | 0 | 0 | 0.52 | 0.31 | 2081 | 0.23 | 2795 |
| 60 | 0 | 0 | 0 | 0.52 | 0.38 | 1709 | 0.26 | 2482 |
| 70 | 0 | 0 | 0 | 0.52 | 0.47 | 1371 | 0.3 | 2168 |
| 80 | 0 | 0 | 0 | 0.52 | 0.6 | 1088 | 0.35 | 1857 |
| 90 | 0 | 0 | 0 | 0.52 | 0.69 | 944 | 0.42 | 1557 |
| 100 | 0 | 0 | 0 | 0.52 | 0.75 | 872 | 0.51 | 1281 |
| 110 | 0 | 0 | 0 | 0.52 | 0.81 | 805 | 0.62 | 1043 |
| 120 | 0 | 0 | 0 | 0.52 | 0.87 | 744 | 0.76 | 855 |
| 130 | 0 | 0 | 0 | 0.52 | 0.94 | 689 | 0.91 | 717 |
| 167 | 0 | 0 | 0 | 0.52 | 1.22 | 534 | 1.2 | 541 |
| 212 | 0 | 0 | 0 | 0.52 | 1.55 | 420 | 1.54 | 424 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 2.42 | 2722 | 2.19 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 0.96 | 2704 | 0.84 | 3102 |
| 30 | 0 | 0 | 0 | 0.52 | 1.1 | 2358 | 0.92 | 2817 |
| 40 | 0 | 0 | 0 | 0.52 | 1.27 | 2043 | 1.03 | 2536 |
| 50 | 0 | 0 | 0 | 0.52 | 1.47 | 1765 | 1.15 | 2265 |
| 60 | 0 | 0 | 0 | 0.52 | 1.7 | 1531 | 1.3 | 2008 |
| 70 | 0 | 0 | 0 | 0.52 | 1.94 | 1340 | 1.47 | 1772 |
| 80 | 0 | 0 | 0 | 0.52 | 2.19 | 1188 | 1.66 | 1563 |
| 90 | 0 | 0 | 0 | 0.52 | 2.44 | 1067 | 1.88 | 1384 |
| 100 | 0 | 0 | 0 | 0.52 | 2.64 | 987 | 2.11 | 1235 |
| 110 | 0 | 0 | 0 | 0.52 | 2.75 | 945 | 2.34 | 1113 |
| 120 | 0 | 0 | 0 | 0.52 | 2.87 | 906 | 2.57 | 1013 |
| 130 | 0 | 0 | 0 | 0.52 | 2.99 | 869 | 2.79 | 931 |
| 167 | 0 | 0 | 0 | 0.52 | 3.43 | 758 | 3.42 | 762 |
| 212 | 0 | 0 | 0 | 0.52 | 3.95 | 659 | 3.94 | 661 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 5.18 | 2861 | 4.93 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 2.92 | 2005 | 2.54 | 2301 |
| 30 | 0 | 0 | 0 | 0.52 | 3.23 | 1809 | 2.79 | 2097 |
| 40 | 0 | 0 | 0 | 0.52 | 3.56 | 1644 | 3.06 | 1913 |
| 50 | 0 | 0 | 0 | 0.52 | 3.89 | 1506 | 3.34 | 1751 |
| 60 | 0 | 0 | 0 | 0.52 | 4.21 | 1390 | 3.64 | 1609 |
| 70 | 0 | 0 | 0 | 0.52 | 4.53 | 1292 | 3.94 | 1487 |
| 80 | 0 | 0 | 0 | 0.52 | 4.84 | 1209 | 4.24 | 1382 |
| 90 | 0 | 0 | 0 | 0.52 | 5.14 | 1138 | 4.53 | 1292 |
| 100 | 0 | 0 | 0 | 0.52 | 5.44 | 1077 | 4.83 | 1213 |
| 110 | 0 | 0 | 0 | 0.52 | 5.7 | 1028 | 5.11 | 1145 |
| 120 | 0 | 0 | 0 | 0.52 | 5.85 | 1001 | 5.39 | 1086 |
| 130 | 0 | 0 | 0 | 0.52 | 6.01 | 976 | 5.67 | 1034 |
| 167 | 0 | 0 | 0 | 0.52 | 6.57 | 892 | 6.55 | 895 |
| 212 | 0 | 0 | 0 | 0.52 | 7.22 | 812 | 7.21 | 813 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 9.02 | 2921 | 8.78 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 6.47 | 1610 | 5.93 | 1756 |
| 30 | 0 | 0 | 0 | 0.52 | 6.85 | 1520 | 6.29 | 1656 |
| 40 | 0 | 0 | 0 | 0.52 | 7.22 | 1442 | 6.64 | 1568 |
| 50 | 0 | 0 | 0 | 0.52 | 7.59 | 1373 | 6.99 | 1489 |
| 60 | 0 | 0 | 0 | 0.52 | 7.94 | 1312 | 7.34 | 1419 |
| 70 | 0 | 0 | 0 | 0.52 | 8.29 | 1257 | 7.68 | 1356 |
| 80 | 0 | 0 | 0 | 0.52 | 8.63 | 1208 | 8.01 | 1300 |
| 90 | 0 | 0 | 0 | 0.52 | 8.95 | 1164 | 8.34 | 1249 |
| 100 | 0 | 0 | 0 | 0.52 | 9.28 | 1124 | 8.66 | 1203 |
| 110 | 0 | 0 | 0 | 0.52 | 9.59 | 1087 | 8.98 | 1161 |
| 120 | 0 | 0 | 0 | 0.52 | 9.85 | 1059 | 9.28 | 1123 |
| 130 | 0 | 0 | 0 | 0.52 | 10.03 | 1040 | 9.58 | 1088 |
| 167 | 0 | 0 | 0 | 0.52 | 10.67 | 977 | 10.64 | 980 |
| 212 | 0 | 0 | 0 | 0.52 | 11.43 | 913 | 11.42 | 914 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.314 | 13.96 | 2951 | 13.73 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 11.33 | 1437 | 10.77 | 1512 |
| 30 | 0 | 0 | 0 | 0.52 | 11.72 | 1390 | 11.15 | 1461 |
| 40 | 0 | 0 | 0 | 0.52 | 12.1 | 1346 | 11.52 | 1414 |
| 50 | 0 | 0 | 0 | 0.52 | 12.47 | 1306 | 11.88 | 1371 |
| 60 | 0 | 0 | 0 | 0.52 | 12.84 | 1269 | 12.24 | 1331 |
| 70 | 0 | 0 | 0 | 0.52 | 13.19 | 1235 | 12.59 | 1294 |
| 80 | 0 | 0 | 0 | 0.52 | 13.54 | 1203 | 12.94 | 1259 |
| 90 | 0 | 0 | 0 | 0.52 | 13.89 | 1174 | 13.28 | 1227 |
| 100 | 0 | 0 | 0 | 0.52 | 14.22 | 1146 | 13.61 | 1198 |
| 110 | 0 | 0 | 0 | 0.52 | 14.55 | 1121 | 13.94 | 1170 |
| 120 | 0 | 0 | 0 | 0.52 | 14.87 | 1096 | 14.26 | 1143 |
| 130 | 0 | 0 | 0 | 0.52 | 15.09 | 1080 | 14.58 | 1118 |
| 167 | 0 | 0 | 0 | 0.52 | 15.8 | 1032 | 15.71 | 1038 |
| 212 | 0 | 0 | 0 | 0.52 | 16.64 | 981 | 16.63 | 982 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-7 | 1-11 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-5 | 1-8 | 2-0 | 2-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-5 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-8 | 1-10 |
| 175.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-2 | 1-5 | 1-10 | 2-1 | 2-3 | 2-6 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-11 | 2-5 | 2-9 | 3-0 | 3-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 175.00 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 |
| 225.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 | 2-5 | 2-8 | 3-0 |
| 250.00 | 1-4 | 1-5 | 1-7 | 1-10 | 2-0 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150.00 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-1 |
| 200.00 | 1-0 | 1-1 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-9 |
| 225.00 | 1-3 | 1-5 | 1-7 | 1-10 | 2-2 | 2-5 | 2-9 | 3-1 | 3-4 | 3-6 |
| 250.00 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 | 3-0 | 3-5 | 3-10 | 4-1 | 4-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 |
| 225.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 250.00 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 |
| 275.00 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 |
| 300.00 | 2-7 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 |
| 325.00 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-8 | 6-0 |
| 350.00 | 3-6 | 3-10 | 4-2 | 4-7 | 4-11 | 5-4 | 5-9 | 6-2 | 6-7 | 7-0 |
| 375.00 | 4-0 | 4-4 | 4-9 | 5-3 | 5-8 | 6-2 | 6-7 | 7-1 | 7-7 | 8-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 |
| 225.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 |
| 250.00 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 |
| 275.00 | 2-5 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 |
| 300.00 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 | 4-6 | 4-10 | 5-2 | 5-5 | 5-8 |
| 325.00 | 3-5 | 3-10 | 4-2 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-5 | 6-8 |
| 350.00 | 4-0 | 4-5 | 4-10 | 5-3 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-9 |
| 375.00 | 4-7 | 5-1 | 5-7 | 6-1 | 6-7 | 7-1 | 7-7 | 8-0 | 8-6 | 8-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 225.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 |
| 250.00 | 2-4 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 |
| 275.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-3 |
| 300.00 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-1 |
| 325.00 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 |
| 350.00 | 4-6 | 4-10 | 5-1 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-10 |
| 375.00 | 5-3 | 5-6 | 5-10 | 6-2 | 6-5 | 6-9 | 7-1 | 7-4 | 7-7 | 7-11 |
| 400.00 | 5-11 | 6-3 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 |
| 425.00 | 6-8 | 7-1 | 7-6 | 7-11 | 8-3 | 8-8 | 9-1 | 9-5 | 9-9 | 10-2 |
| 450.00 | 7-6 | 7-11 | 8-5 | 8-10 | 9-3 | 9-9 | 10-2 | 10-7 | 11-0 | 11-4 |
| 475.00 | 8-4 | 8-10 | 9-4 | 9-10 | 10-4 | 10-10 | 11-4 | 11-9 | 12-3 | 12-8 |
| 500.00 | 9-3 | 9-10 | 10-5 | 10-11 | 11-6 | 12-0 | 12-6 | 13-0 | 13-6 | 14-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 225.00 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 |
| 250.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 |
| 275.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 |
| 300.00 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-3 | 5-5 |
| 325.00 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 |
| 350.00 | 4-11 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 375.00 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 |
| 400.00 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 | 8-3 | 8-8 | 8-11 | 9-3 | 9-7 |
| 425.00 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 | 10-6 | 10-10 |
| 450.00 | 8-2 | 8-8 | 9-2 | 9-7 | 10-1 | 10-6 | 10-11 | 11-4 | 11-9 | 12-2 |
| 475.00 | 9-1 | 9-8 | 10-2 | 10-8 | 11-2 | 11-8 | 12-2 | 12-8 | 13-1 | 13-6 |
| 500.00 | 10-1 | 10-8 | 11-3 | 11-10 | 12-5 | 12-11 | 13-6 | 14-0 | 14-6 | 15-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 275.00 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-3 |
| 300.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 |
| 325.00 | 4-7 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-11 |
| 350.00 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 |
| 375.00 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 |
| 400.00 | 6-11 | 7-2 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 |
| 425.00 | 7-9 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 |
| 450.00 | 8-9 | 9-0 | 9-4 | 9-7 | 9-11 | 10-2 | 10-6 | 10-9 | 11-0 | 11-3 |
| 475.00 | 9-9 | 10-1 | 10-5 | 10-9 | 11-1 | 11-4 | 11-8 | 12-0 | 12-3 | 12-7 |
| 500.00 | 10-9 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-11 |
| 525.00 | 11-11 | 12-3 | 12-8 | 13-1 | 13-6 | 13-11 | 14-3 | 14-8 | 15-0 | 15-4 |
| 550.00 | 13-0 | 13-6 | 13-11 | 14-5 | 14-10 | 15-3 | 15-8 | 16-1 | 16-6 | 16-10 |
| 575.00 | 14-3 | 14-9 | 15-3 | 15-9 | 16-2 | 16-8 | 17-1 | 17-7 | 18-0 | 18-5 |
| 600.00 | 15-6 | 16-1 | 16-7 | 17-1 | 17-8 | 18-2 | 18-8 | 19-2 | 19-7 | 20-1 |
| 625.00 | 16-10 | 17-5 | 18-0 | 18-7 | 19-2 | 19-8 | 20-3 | 20-9 | 21-3 | 21-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 275.00 | 3-5 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 |
| 300.00 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 |
| 325.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 |
| 350.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 |
| 375.00 | 6-4 | 6-7 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-10 | 8-0 | 8-2 |
| 400.00 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-5 | 8-8 | 8-11 | 9-1 | 9-4 |
| 425.00 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 |
| 450.00 | 9-2 | 9-6 | 9-10 | 10-1 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 |
| 475.00 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 | 12-6 | 12-10 | 13-2 |
| 500.00 | 11-4 | 11-9 | 12-1 | 12-6 | 12-10 | 13-2 | 13-7 | 13-11 | 14-3 | 14-7 |
| 525.00 | 12-6 | 12-11 | 13-4 | 13-9 | 14-2 | 14-7 | 14-11 | 15-4 | 15-8 | 16-1 |
| 550.00 | 13-9 | 14-2 | 14-8 | 15-1 | 15-6 | 16-0 | 16-5 | 16-10 | 17-3 | 17-7 |
| 575.00 | 15-0 | 15-6 | 16-0 | 16-6 | 17-0 | 17-5 | 17-11 | 18-4 | 18-10 | 19-3 |
| 600.00 | 16-4 | 16-11 | 17-5 | 18-0 | 18-6 | 19-0 | 19-6 | 20-0 | 20-6 | 21-0 |
| 625.00 | 17-9 | 18-4 | 18-11 | 19-6 | 20-1 | 20-7 | 21-2 | 21-8 | 22-3 | 22-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 1.64 | 1000 | 1.64 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 1.21 | 539 | 1.19 | 545 |
| 30 | 0 | 0 | 0 | 0.52 | 1.59 | 408 | 1.57 | 415 |
| 40 | 0 | 0 | 0 | 0.52 | 1.71 | 381 | 1.68 | 388 |
| 50 | 0 | 0 | 0 | 0.52 | 1.82 | 358 | 1.78 | 365 |
| 60 | 0 | 0 | 0 | 0.52 | 1.92 | 339 | 1.89 | 345 |
| 70 | 0 | 0 | 0 | 0.52 | 2.02 | 323 | 1.98 | 328 |
| 80 | 0 | 0 | 0 | 0.52 | 2.09 | 311 | 2.08 | 314 |
| 90 | 0 | 0 | 0 | 0.52 | 2.15 | 303 | 2.15 | 303 |
| 100 | 0 | 0 | 0 | 0.52 | 2.21 | 295 | 2.21 | 295 |
| 110 | 0 | 0 | 0 | 0.52 | 2.27 | 287 | 2.27 | 287 |
| 120 | 0 | 0 | 0 | 0.52 | 2.32 | 281 | 2.32 | 281 |
| 130 | 0 | 0 | 0 | 0.52 | 2.38 | 274 | 2.38 | 274 |
| 167 | 0 | 0 | 0 | 0.52 | 2.57 | 254 | 2.57 | 254 |
| 212 | 0 | 0 | 0 | 0.52 | 2.79 | 234 | 2.79 | 234 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 6.6 | 1000 | 6.6 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 6.16 | 424 | 6.12 | 426 |
| 30 | 0 | 0 | 0 | 0.52 | 6.55 | 399 | 6.52 | 401 |
| 40 | 0 | 0 | 0 | 0.52 | 6.67 | 392 | 6.64 | 394 |
| 50 | 0 | 0 | 0 | 0.52 | 6.79 | 385 | 6.75 | 387 |
| 60 | 0 | 0 | 0 | 0.52 | 6.9 | 378 | 6.86 | 381 |
| 70 | 0 | 0 | 0 | 0.52 | 7.02 | 372 | 6.98 | 374 |
| 80 | 0 | 0 | 0 | 0.52 | 7.13 | 366 | 7.09 | 369 |
| 90 | 0 | 0 | 0 | 0.52 | 7.21 | 363 | 7.2 | 363 |
| 100 | 0 | 0 | 0 | 0.52 | 7.28 | 359 | 7.28 | 359 |
| 110 | 0 | 0 | 0 | 0.52 | 7.35 | 356 | 7.35 | 356 |
| 120 | 0 | 0 | 0 | 0.52 | 7.42 | 352 | 7.42 | 352 |
| 130 | 0 | 0 | 0 | 0.52 | 7.49 | 349 | 7.49 | 349 |
| 167 | 0 | 0 | 0 | 0.52 | 7.75 | 338 | 7.75 | 338 |
| 212 | 0 | 0 | 0 | 0.52 | 8.05 | 325 | 8.05 | 325 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 14.93 | 1000 | 14.93 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 14.5 | 407 | 14.46 | 408 |
| 30 | 0 | 0 | 0 | 0.52 | 14.88 | 397 | 14.85 | 398 |
| 40 | 0 | 0 | 0 | 0.52 | 15 | 394 | 14.97 | 395 |
| 50 | 0 | 0 | 0 | 0.52 | 15.12 | 391 | 15.09 | 392 |
| 60 | 0 | 0 | 0 | 0.52 | 15.24 | 388 | 15.2 | 389 |
| 70 | 0 | 0 | 0 | 0.52 | 15.36 | 385 | 15.32 | 386 |
| 80 | 0 | 0 | 0 | 0.52 | 15.48 | 382 | 15.43 | 383 |
| 90 | 0 | 0 | 0 | 0.52 | 15.56 | 380 | 15.55 | 380 |
| 100 | 0 | 0 | 0 | 0.52 | 15.64 | 378 | 15.64 | 378 |
| 110 | 0 | 0 | 0 | 0.52 | 15.72 | 376 | 15.72 | 376 |
| 120 | 0 | 0 | 0 | 0.52 | 15.8 | 374 | 15.8 | 374 |
| 130 | 0 | 0 | 0 | 0.52 | 15.87 | 373 | 15.87 | 373 |
| 167 | 0 | 0 | 0 | 0.52 | 16.15 | 366 | 16.15 | 366 |
| 212 | 0 | 0 | 0 | 0.52 | 16.49 | 359 | 16.49 | 359 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 26.76 | 1000 | 26.76 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 26.33 | 402 | 26.28 | 403 |
| 30 | 0 | 0 | 0 | 0.52 | 26.71 | 396 | 26.68 | 397 |
| 40 | 0 | 0 | 0 | 0.52 | 26.83 | 395 | 26.79 | 395 |
| 50 | 0 | 0 | 0 | 0.52 | 26.95 | 393 | 26.91 | 393 |
| 60 | 0 | 0 | 0 | 0.52 | 27.07 | 391 | 27.03 | 392 |
| 70 | 0 | 0 | 0 | 0.52 | 27.19 | 390 | 27.15 | 390 |
| 80 | 0 | 0 | 0 | 0.52 | 27.31 | 388 | 27.26 | 389 |
| 90 | 0 | 0 | 0 | 0.52 | 27.4 | 387 | 27.38 | 387 |
| 100 | 0 | 0 | 0 | 0.52 | 27.48 | 386 | 27.48 | 386 |
| 110 | 0 | 0 | 0 | 0.52 | 27.56 | 385 | 27.56 | 385 |
| 120 | 0 | 0 | 0 | 0.52 | 27.64 | 383 | 27.64 | 383 |
| 130 | 0 | 0 | 0 | 0.52 | 27.72 | 382 | 27.72 | 382 |
| 167 | 0 | 0 | 0 | 0.52 | 28.01 | 379 | 28.01 | 379 |
| 212 | 0 | 0 | 0 | 0.52 | 28.35 | 374 | 28.35 | 374 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 42.25 | 1000 | 42.25 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 41.82 | 399 | 41.77 | 400 |
| 30 | 0 | 0 | 0 | 0.52 | 42.2 | 396 | 42.17 | 396 |
| 40 | 0 | 0 | 0 | 0.52 | 42.32 | 395 | 42.29 | 395 |
| 50 | 0 | 0 | 0 | 0.52 | 42.44 | 394 | 42.4 | 394 |
| 60 | 0 | 0 | 0 | 0.52 | 42.56 | 393 | 42.52 | 393 |
| 70 | 0 | 0 | 0 | 0.52 | 42.68 | 392 | 42.64 | 392 |
| 80 | 0 | 0 | 0 | 0.52 | 42.81 | 391 | 42.76 | 391 |
| 90 | 0 | 0 | 0 | 0.52 | 42.89 | 390 | 42.87 | 390 |
| 100 | 0 | 0 | 0 | 0.52 | 42.98 | 389 | 42.98 | 389 |
| 110 | 0 | 0 | 0 | 0.52 | 43.06 | 389 | 43.06 | 389 |
| 120 | 0 | 0 | 0 | 0.52 | 43.14 | 388 | 43.14 | 388 |
| 130 | 0 | 0 | 0 | 0.52 | 43.22 | 387 | 43.22 | 387 |
| 167 | 0 | 0 | 0 | 0.52 | 43.51 | 385 | 43.51 | 385 |
| 212 | 0 | 0 | 0 | 0.52 | 43.87 | 382 | 43.87 | 382 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-3 |
| 100.00 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 |
| 125.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-5 | 3-7 |
| 150.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 |
| 175.00 | 4-5 | 4-10 | 5-2 | 5-6 | 5-9 | 6-1 | 6-4 | 6-7 | 6-9 | 6-11 |
| 200.00 | 5-10 | 6-3 | 6-9 | 7-2 | 7-7 | 7-11 | 8-4 | 8-8 | 8-10 | 9-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 |
| 100.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 |
| 125.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 |
| 150.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 |
| 175.00 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 |
| 200.00 | 5-11 | 6-5 | 6-10 | 7-3 | 7-8 | 8-1 | 8-5 | 8-8 | 8-10 | 9-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 |
| 150.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 |
| 175.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 |
| 200.00 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 |
| 225.00 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 |
| 250.00 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 |
| 150.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 |
| 175.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 200.00 | 6-5 | 6-7 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-2 | 7-3 | 7-4 |
| 225.00 | 8-2 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 |
| 250.00 | 10-1 | 10-3 | 10-5 | 10-7 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 |
| 175.00 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 200.00 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 |
| 225.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 |
| 250.00 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-11 |
| 275.00 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-2 |
| 300.00 | 14-9 | 14-10 | 15-0 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 | 15-9 |
| 325.00 | 17-4 | 17-5 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 | 18-3 | 18-4 | 18-6 |
| 350.00 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 | 21-0 | 21-2 | 21-4 | 21-5 |
| 375.00 | 23-1 | 23-3 | 23-5 | 23-7 | 23-10 | 24-0 | 24-2 | 24-4 | 24-6 | 24-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 |
| 175.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 |
| 200.00 | 6-7 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 |
| 225.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 |
| 250.00 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 |
| 275.00 | 12-5 | 12-6 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-2 |
| 300.00 | 14-9 | 14-11 | 15-0 | 15-1 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 | 15-9 |
| 325.00 | 17-4 | 17-6 | 17-7 | 17-9 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-6 |
| 350.00 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-4 | 21-5 |
| 375.00 | 23-1 | 23-4 | 23-6 | 23-8 | 23-10 | 24-1 | 24-3 | 24-4 | 24-6 | 24-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 |
| 225.00 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 |
| 250.00 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-8 | 10-9 |
| 275.00 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 |
| 300.00 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 |
| 325.00 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-2 |
| 350.00 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 |
| 375.00 | 23-4 | 23-5 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 | 24-1 | 24-2 | 24-2 |
| 400.00 | 26-7 | 26-8 | 26-10 | 26-11 | 27-0 | 27-2 | 27-3 | 27-5 | 27-6 | 27-7 |
| 425.00 | 30-0 | 30-2 | 30-3 | 30-5 | 30-6 | 30-8 | 30-10 | 30-11 | 31-1 | 31-2 |
| 450.00 | 33-8 | 33-10 | 34-0 | 34-1 | 34-3 | 34-5 | 34-7 | 34-9 | 34-10 | 34-11 |
| 475.00 | 37-6 | 37-8 | 37-11 | 38-1 | 38-3 | 38-5 | 38-7 | 38-9 | 38-10 | 39-0 |
| 500.00 | 41-8 | 41-10 | 42-0 | 42-2 | 42-5 | 42-7 | 42-9 | 42-11 | 43-1 | 43-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-10 |
| 225.00 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 |
| 250.00 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-8 | 10-9 |
| 275.00 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 |
| 300.00 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 |
| 325.00 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-1 | 18-2 |
| 350.00 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-11 | 20-11 | 21-0 | 21-1 |
| 375.00 | 23-4 | 23-5 | 23-7 | 23-8 | 23-9 | 23-11 | 24-0 | 24-1 | 24-2 | 24-2 |
| 400.00 | 26-7 | 26-8 | 26-10 | 26-11 | 27-1 | 27-2 | 27-4 | 27-5 | 27-6 | 27-7 |
| 425.00 | 30-0 | 30-2 | 30-4 | 30-5 | 30-7 | 30-9 | 30-10 | 30-11 | 31-1 | 31-2 |
| 450.00 | 33-8 | 33-10 | 34-0 | 34-2 | 34-4 | 34-6 | 34-7 | 34-9 | 34-10 | 34-11 |
| 475.00 | 37-7 | 37-9 | 37-11 | 38-1 | 38-3 | 38-5 | 38-7 | 38-9 | 38-10 | 39-0 |
| 500.00 | 41-8 | 41-10 | 42-1 | 42-3 | 42-5 | 42-8 | 42-10 | 43-0 | 43-1 | 43-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 |
| 275.00 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 |
| 300.00 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 |
| 325.00 | 17-8 | 17-9 | 17-9 | 17-10 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 |
| 350.00 | 20-6 | 20-7 | 20-7 | 20-8 | 20-9 | 20-10 | 20-10 | 20-11 | 20-11 | 21-0 |
| 375.00 | 23-7 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 23-11 | 24-0 | 24-1 | 24-1 |
| 400.00 | 26-10 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 |
| 425.00 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-0 |
| 450.00 | 34-0 | 34-1 | 34-2 | 34-3 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 |
| 475.00 | 37-11 | 38-0 | 38-2 | 38-3 | 38-4 | 38-5 | 38-7 | 38-8 | 38-9 | 38-10 |
| 500.00 | 42-1 | 42-2 | 42-3 | 42-5 | 42-6 | 42-8 | 42-9 | 42-10 | 43-0 | 43-1 |
| 525.00 | 46-5 | 46-6 | 46-8 | 46-10 | 46-11 | 47-1 | 47-2 | 47-4 | 47-5 | 47-6 |
| 550.00 | 51-0 | 51-1 | 51-3 | 51-5 | 51-7 | 51-8 | 51-10 | 52-0 | 52-1 | 52-2 |
| 575.00 | 55-9 | 55-11 | 56-1 | 56-3 | 56-5 | 56-7 | 56-9 | 56-11 | 57-0 | 57-1 |
| 600.00 | 60-10 | 61-0 | 61-2 | 61-4 | 61-6 | 61-8 | 61-10 | 62-0 | 62-2 | 62-3 |
| 625.00 | 66-1 | 66-3 | 66-5 | 66-7 | 66-10 | 67-0 | 67-2 | 67-4 | 67-6 | 67-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 |
| 275.00 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 |
| 300.00 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 |
| 325.00 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 |
| 350.00 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-10 | 20-10 | 20-11 | 20-11 | 21-0 |
| 375.00 | 23-7 | 23-8 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 | 24-0 | 24-1 | 24-1 |
| 400.00 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-3 | 27-4 | 27-4 | 27-5 | 27-6 |
| 425.00 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-0 |
| 450.00 | 34-0 | 34-1 | 34-3 | 34-4 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 |
| 475.00 | 37-11 | 38-1 | 38-2 | 38-3 | 38-5 | 38-6 | 38-7 | 38-8 | 38-9 | 38-10 |
| 500.00 | 42-1 | 42-2 | 42-4 | 42-5 | 42-7 | 42-8 | 42-10 | 42-11 | 43-0 | 43-1 |
| 525.00 | 46-5 | 46-7 | 46-8 | 46-10 | 47-0 | 47-1 | 47-3 | 47-4 | 47-5 | 47-6 |
| 550.00 | 51-0 | 51-2 | 51-4 | 51-5 | 51-7 | 51-9 | 51-11 | 52-0 | 52-1 | 52-2 |
| 575.00 | 55-10 | 56-0 | 56-2 | 56-4 | 56-6 | 56-7 | 56-9 | 56-11 | 57-0 | 57-1 |
| 600.00 | 60-10 | 61-0 | 61-2 | 61-4 | 61-7 | 61-9 | 61-11 | 62-0 | 62-2 | 62-3 |
| 625.00 | 66-1 | 66-3 | 66-6 | 66-8 | 66-10 | 67-1 | 67-3 | 67-5 | 67-6 | 67-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 1.1 | 1500 | 1.1 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 0.49 | 1334 | 0.49 | 1334 |
| 30 | 0 | 0 | 0 | 0.52 | 0.92 | 707 | 0.87 | 750 |
| 40 | 0 | 0 | 0 | 0.52 | 1.07 | 606 | 1.01 | 642 |
| 50 | 0 | 0 | 0 | 0.52 | 1.22 | 534 | 1.15 | 564 |
| 60 | 0 | 0 | 0 | 0.52 | 1.36 | 480 | 1.29 | 505 |
| 70 | 0 | 0 | 0 | 0.52 | 1.48 | 438 | 1.42 | 460 |
| 80 | 0 | 0 | 0 | 0.52 | 1.6 | 407 | 1.54 | 424 |
| 90 | 0 | 0 | 0 | 0.52 | 1.67 | 390 | 1.65 | 395 |
| 100 | 0 | 0 | 0 | 0.52 | 1.74 | 374 | 1.74 | 374 |
| 110 | 0 | 0 | 0 | 0.52 | 1.8 | 361 | 1.8 | 361 |
| 120 | 0 | 0 | 0 | 0.52 | 1.87 | 348 | 1.87 | 348 |
| 130 | 0 | 0 | 0 | 0.52 | 1.93 | 337 | 1.93 | 337 |
| 167 | 0 | 0 | 0 | 0.52 | 2.16 | 302 | 2.16 | 302 |
| 212 | 0 | 0 | 0 | 0.52 | 2.41 | 271 | 2.41 | 271 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 4.4 | 1496 | 4.39 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 3.63 | 718 | 3.56 | 730 |
| 30 | 0 | 0 | 0 | 0.52 | 4.2 | 620 | 4.12 | 632 |
| 40 | 0 | 0 | 0 | 0.52 | 4.38 | 595 | 4.29 | 607 |
| 50 | 0 | 0 | 0 | 0.52 | 4.55 | 573 | 4.46 | 584 |
| 60 | 0 | 0 | 0 | 0.52 | 4.71 | 553 | 4.62 | 564 |
| 70 | 0 | 0 | 0 | 0.52 | 4.88 | 535 | 4.78 | 545 |
| 80 | 0 | 0 | 0 | 0.52 | 5.03 | 518 | 4.93 | 528 |
| 90 | 0 | 0 | 0 | 0.52 | 5.17 | 504 | 5.08 | 513 |
| 100 | 0 | 0 | 0 | 0.52 | 5.27 | 495 | 5.23 | 498 |
| 110 | 0 | 0 | 0 | 0.52 | 5.37 | 486 | 5.37 | 486 |
| 120 | 0 | 0 | 0 | 0.52 | 5.46 | 478 | 5.46 | 478 |
| 130 | 0 | 0 | 0 | 0.52 | 5.55 | 470 | 5.55 | 470 |
| 167 | 0 | 0 | 0 | 0.52 | 5.88 | 444 | 5.88 | 444 |
| 212 | 0 | 0 | 0 | 0.52 | 6.26 | 417 | 6.26 | 417 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 9.92 | 1497 | 9.9 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 9.15 | 642 | 9.08 | 647 |
| 30 | 0 | 0 | 0 | 0.52 | 9.71 | 605 | 9.62 | 610 |
| 40 | 0 | 0 | 0 | 0.52 | 9.89 | 594 | 9.8 | 600 |
| 50 | 0 | 0 | 0 | 0.52 | 10.07 | 583 | 9.97 | 589 |
| 60 | 0 | 0 | 0 | 0.52 | 10.25 | 574 | 10.14 | 579 |
| 70 | 0 | 0 | 0 | 0.52 | 10.42 | 564 | 10.31 | 570 |
| 80 | 0 | 0 | 0 | 0.52 | 10.59 | 555 | 10.48 | 561 |
| 90 | 0 | 0 | 0 | 0.52 | 10.76 | 547 | 10.64 | 552 |
| 100 | 0 | 0 | 0 | 0.52 | 10.87 | 541 | 10.8 | 544 |
| 110 | 0 | 0 | 0 | 0.52 | 10.98 | 536 | 10.96 | 536 |
| 120 | 0 | 0 | 0 | 0.52 | 11.09 | 530 | 11.09 | 530 |
| 130 | 0 | 0 | 0 | 0.52 | 11.19 | 526 | 11.19 | 526 |
| 167 | 0 | 0 | 0 | 0.52 | 11.57 | 508 | 11.57 | 508 |
| 212 | 0 | 0 | 0 | 0.52 | 12.02 | 490 | 12.02 | 490 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 17.68 | 1498 | 17.66 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 16.92 | 619 | 16.84 | 622 |
| 30 | 0 | 0 | 0 | 0.52 | 17.47 | 600 | 17.38 | 603 |
| 40 | 0 | 0 | 0 | 0.52 | 17.66 | 594 | 17.56 | 597 |
| 50 | 0 | 0 | 0 | 0.52 | 17.84 | 588 | 17.73 | 591 |
| 60 | 0 | 0 | 0 | 0.52 | 18.02 | 582 | 17.91 | 585 |
| 70 | 0 | 0 | 0 | 0.52 | 18.19 | 576 | 18.08 | 580 |
| 80 | 0 | 0 | 0 | 0.52 | 18.37 | 571 | 18.25 | 575 |
| 90 | 0 | 0 | 0 | 0.52 | 18.54 | 566 | 18.42 | 569 |
| 100 | 0 | 0 | 0 | 0.52 | 18.68 | 562 | 18.59 | 564 |
| 110 | 0 | 0 | 0 | 0.52 | 18.79 | 558 | 18.76 | 559 |
| 120 | 0 | 0 | 0 | 0.52 | 18.91 | 555 | 18.91 | 555 |
| 130 | 0 | 0 | 0 | 0.52 | 19.02 | 552 | 19.02 | 552 |
| 167 | 0 | 0 | 0 | 0.52 | 19.42 | 540 | 19.42 | 540 |
| 212 | 0 | 0 | 0 | 0.52 | 19.91 | 528 | 19.91 | 528 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 27.74 | 1499 | 27.72 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 26.98 | 609 | 26.9 | 611 |
| 30 | 0 | 0 | 0 | 0.52 | 27.53 | 597 | 27.44 | 599 |
| 40 | 0 | 0 | 0 | 0.52 | 27.72 | 594 | 27.62 | 596 |
| 50 | 0 | 0 | 0 | 0.52 | 27.9 | 590 | 27.79 | 592 |
| 60 | 0 | 0 | 0 | 0.52 | 28.08 | 586 | 27.97 | 588 |
| 70 | 0 | 0 | 0 | 0.52 | 28.26 | 582 | 28.14 | 585 |
| 80 | 0 | 0 | 0 | 0.52 | 28.44 | 579 | 28.32 | 581 |
| 90 | 0 | 0 | 0 | 0.52 | 28.61 | 575 | 28.49 | 578 |
| 100 | 0 | 0 | 0 | 0.52 | 28.76 | 573 | 28.66 | 574 |
| 110 | 0 | 0 | 0 | 0.52 | 28.87 | 570 | 28.83 | 571 |
| 120 | 0 | 0 | 0 | 0.52 | 28.99 | 568 | 28.99 | 568 |
| 130 | 0 | 0 | 0 | 0.52 | 29.11 | 566 | 29.11 | 566 |
| 167 | 0 | 0 | 0 | 0.52 | 29.53 | 558 | 29.53 | 558 |
| 212 | 0 | 0 | 0 | 0.52 | 30.04 | 549 | 30.04 | 549 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-2 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 |
| 150.00 | 1-8 | 1-11 | 2-3 | 2-7 | 2-11 | 3-2 | 3-5 | 3-9 | 3-11 | 4-1 |
| 175.00 | 2-3 | 2-8 | 3-1 | 3-6 | 3-11 | 4-4 | 4-8 | 5-1 | 5-4 | 5-6 |
| 200.00 | 2-11 | 3-6 | 4-1 | 4-7 | 5-2 | 5-8 | 6-2 | 6-7 | 7-0 | 7-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-2 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 150.00 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 |
| 175.00 | 2-4 | 2-10 | 3-3 | 3-9 | 4-2 | 4-7 | 4-11 | 5-1 | 5-4 | 5-6 |
| 200.00 | 3-1 | 3-8 | 4-4 | 4-11 | 5-5 | 5-11 | 6-5 | 6-8 | 7-0 | 7-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 175.00 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 |
| 200.00 | 3-11 | 4-1 | 4-3 | 4-6 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 |
| 225.00 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-7 | 6-10 |
| 250.00 | 6-2 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 | 8-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 125.00 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 |
| 175.00 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-0 | 4-1 |
| 200.00 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 |
| 225.00 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-2 | 6-4 | 6-7 | 6-8 | 6-10 |
| 250.00 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 |
| 175.00 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 |
| 200.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 |
| 225.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 |
| 250.00 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 |
| 275.00 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 |
| 300.00 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 |
| 325.00 | 11-1 | 11-4 | 11-6 | 11-8 | 11-11 | 12-1 | 12-4 | 12-6 | 12-8 | 12-10 |
| 350.00 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 | 14-9 | 14-11 |
| 375.00 | 14-9 | 15-1 | 15-4 | 15-7 | 15-10 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 175.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 |
| 200.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 |
| 225.00 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-1 | 6-1 | 6-2 |
| 250.00 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-7 |
| 275.00 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 |
| 300.00 | 9-6 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-10 | 11-0 |
| 325.00 | 11-2 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-8 | 12-9 | 12-11 |
| 350.00 | 13-0 | 13-3 | 13-6 | 13-9 | 13-11 | 14-2 | 14-5 | 14-8 | 14-10 | 14-11 |
| 375.00 | 14-11 | 15-2 | 15-6 | 15-9 | 16-0 | 16-4 | 16-7 | 16-10 | 17-0 | 17-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 |
| 225.00 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 |
| 250.00 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 |
| 275.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 |
| 300.00 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 |
| 325.00 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-2 | 12-3 | 12-4 |
| 350.00 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 |
| 375.00 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 | 16-6 |
| 400.00 | 17-2 | 17-5 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 |
| 425.00 | 19-5 | 19-8 | 19-10 | 20-0 | 20-3 | 20-5 | 20-7 | 20-10 | 21-0 | 21-2 |
| 450.00 | 21-9 | 22-0 | 22-3 | 22-6 | 22-8 | 22-11 | 23-1 | 23-4 | 23-7 | 23-9 |
| 475.00 | 24-3 | 24-6 | 24-9 | 25-0 | 25-3 | 25-6 | 25-9 | 26-0 | 26-3 | 26-6 |
| 500.00 | 26-11 | 27-2 | 27-6 | 27-9 | 28-0 | 28-4 | 28-7 | 28-10 | 29-1 | 29-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 | 4-8 |
| 225.00 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 |
| 250.00 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 |
| 275.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 |
| 300.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 325.00 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 | 12-3 | 12-4 | 12-5 |
| 350.00 | 13-3 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 | 14-2 | 14-3 | 14-5 |
| 375.00 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-3 | 16-5 | 16-6 |
| 400.00 | 17-3 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-7 | 18-8 | 18-9 |
| 425.00 | 19-6 | 19-9 | 19-11 | 20-2 | 20-4 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 |
| 450.00 | 21-11 | 22-2 | 22-4 | 22-7 | 22-10 | 23-1 | 23-3 | 23-6 | 23-8 | 23-10 |
| 475.00 | 24-5 | 24-8 | 24-11 | 25-2 | 25-5 | 25-8 | 25-11 | 26-2 | 26-4 | 26-6 |
| 500.00 | 27-1 | 27-4 | 27-8 | 27-11 | 28-2 | 28-6 | 28-9 | 29-0 | 29-3 | 29-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 |
| 275.00 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 |
| 300.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 |
| 325.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 350.00 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 |
| 375.00 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 |
| 400.00 | 17-5 | 17-6 | 17-8 | 17-9 | 17-10 | 18-0 | 18-1 | 18-2 | 18-4 | 18-5 |
| 425.00 | 19-8 | 19-10 | 19-11 | 20-1 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 | 20-10 |
| 450.00 | 22-1 | 22-3 | 22-4 | 22-6 | 22-8 | 22-9 | 22-11 | 23-1 | 23-2 | 23-4 |
| 475.00 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-5 | 25-7 | 25-8 | 25-10 | 26-0 |
| 500.00 | 27-3 | 27-5 | 27-7 | 27-10 | 28-0 | 28-2 | 28-4 | 28-6 | 28-8 | 28-10 |
| 525.00 | 30-1 | 30-3 | 30-6 | 30-8 | 30-10 | 31-0 | 31-3 | 31-5 | 31-7 | 31-10 |
| 550.00 | 33-0 | 33-3 | 33-5 | 33-8 | 33-10 | 34-1 | 34-4 | 34-6 | 34-9 | 34-11 |
| 575.00 | 36-1 | 36-4 | 36-7 | 36-10 | 37-0 | 37-3 | 37-6 | 37-9 | 38-0 | 38-2 |
| 600.00 | 39-4 | 39-7 | 39-10 | 40-1 | 40-4 | 40-7 | 40-10 | 41-1 | 41-4 | 41-7 |
| 625.00 | 42-8 | 43-0 | 43-3 | 43-6 | 43-10 | 44-1 | 44-4 | 44-7 | 44-11 | 45-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 |
| 275.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-8 |
| 300.00 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 |
| 325.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 |
| 350.00 | 13-4 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-1 |
| 375.00 | 15-4 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 16-0 | 16-1 | 16-2 | 16-3 |
| 400.00 | 17-6 | 17-7 | 17-9 | 17-10 | 17-11 | 18-1 | 18-2 | 18-3 | 18-5 | 18-5 |
| 425.00 | 19-9 | 19-10 | 20-0 | 20-2 | 20-3 | 20-5 | 20-6 | 20-8 | 20-9 | 20-10 |
| 450.00 | 22-2 | 22-3 | 22-5 | 22-7 | 22-9 | 22-10 | 23-0 | 23-2 | 23-3 | 23-4 |
| 475.00 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 | 25-8 | 25-10 | 25-11 | 26-1 |
| 500.00 | 27-4 | 27-6 | 27-9 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-10 |
| 525.00 | 30-2 | 30-4 | 30-7 | 30-9 | 31-0 | 31-2 | 31-4 | 31-7 | 31-9 | 31-10 |
| 550.00 | 33-1 | 33-4 | 33-7 | 33-9 | 34-0 | 34-3 | 34-5 | 34-8 | 34-10 | 35-0 |
| 575.00 | 36-3 | 36-6 | 36-8 | 36-11 | 37-2 | 37-5 | 37-8 | 37-11 | 38-1 | 38-3 |
| 600.00 | 39-5 | 39-9 | 40-0 | 40-3 | 40-6 | 40-9 | 41-0 | 41-3 | 41-6 | 41-8 |
| 625.00 | 42-10 | 43-1 | 43-5 | 43-8 | 44-0 | 44-3 | 44-6 | 44-10 | 45-1 | 45-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 0.82 | 1998 | 0.82 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.3 | 2159 | 0.3 | 2159 |
| 30 | 0 | 0 | 0 | 0.52 | 0.55 | 1185 | 0.5 | 1291 |
| 40 | 0 | 0 | 0 | 0.52 | 0.69 | 944 | 0.62 | 1055 |
| 50 | 0 | 0 | 0 | 0.52 | 0.84 | 771 | 0.75 | 867 |
| 60 | 0 | 0 | 0 | 0.52 | 1 | 650 | 0.89 | 727 |
| 70 | 0 | 0 | 0 | 0.52 | 1.15 | 566 | 1.04 | 625 |
| 80 | 0 | 0 | 0 | 0.52 | 1.29 | 504 | 1.18 | 551 |
| 90 | 0 | 0 | 0 | 0.52 | 1.37 | 473 | 1.31 | 495 |
| 100 | 0 | 0 | 0 | 0.52 | 1.45 | 449 | 1.44 | 452 |
| 110 | 0 | 0 | 0 | 0.52 | 1.52 | 427 | 1.52 | 427 |
| 120 | 0 | 0 | 0 | 0.52 | 1.6 | 408 | 1.6 | 408 |
| 130 | 0 | 0 | 0 | 0.52 | 1.67 | 391 | 1.67 | 391 |
| 167 | 0 | 0 | 0 | 0.52 | 1.91 | 341 | 1.91 | 341 |
| 212 | 0 | 0 | 0 | 0.52 | 2.18 | 299 | 2.18 | 299 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 3.32 | 1984 | 3.29 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 2.18 | 1194 | 2.08 | 1253 |
| 30 | 0 | 0 | 0 | 0.52 | 2.91 | 896 | 2.75 | 945 |
| 40 | 0 | 0 | 0 | 0.52 | 3.13 | 831 | 2.97 | 875 |
| 50 | 0 | 0 | 0 | 0.52 | 3.35 | 777 | 3.19 | 817 |
| 60 | 0 | 0 | 0 | 0.52 | 3.56 | 732 | 3.39 | 768 |
| 70 | 0 | 0 | 0 | 0.52 | 3.76 | 693 | 3.59 | 725 |
| 80 | 0 | 0 | 0 | 0.52 | 3.95 | 659 | 3.78 | 689 |
| 90 | 0 | 0 | 0 | 0.52 | 4.14 | 630 | 3.96 | 657 |
| 100 | 0 | 0 | 0 | 0.52 | 4.27 | 611 | 4.14 | 629 |
| 110 | 0 | 0 | 0 | 0.52 | 4.37 | 596 | 4.32 | 603 |
| 120 | 0 | 0 | 0 | 0.52 | 4.48 | 581 | 4.48 | 581 |
| 130 | 0 | 0 | 0 | 0.52 | 4.59 | 568 | 4.59 | 568 |
| 167 | 0 | 0 | 0 | 0.52 | 4.96 | 525 | 4.96 | 525 |
| 212 | 0 | 0 | 0 | 0.52 | 5.39 | 484 | 5.39 | 484 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 7.45 | 1989 | 7.41 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 6.26 | 936 | 6.11 | 960 |
| 30 | 0 | 0 | 0 | 0.52 | 7.02 | 836 | 6.84 | 857 |
| 40 | 0 | 0 | 0 | 0.52 | 7.25 | 808 | 7.07 | 829 |
| 50 | 0 | 0 | 0 | 0.52 | 7.49 | 783 | 7.3 | 803 |
| 60 | 0 | 0 | 0 | 0.52 | 7.71 | 760 | 7.52 | 780 |
| 70 | 0 | 0 | 0 | 0.52 | 7.93 | 739 | 7.74 | 758 |
| 80 | 0 | 0 | 0 | 0.52 | 8.15 | 720 | 7.95 | 738 |
| 90 | 0 | 0 | 0 | 0.52 | 8.36 | 702 | 8.16 | 719 |
| 100 | 0 | 0 | 0 | 0.52 | 8.56 | 685 | 8.36 | 702 |
| 110 | 0 | 0 | 0 | 0.52 | 8.69 | 675 | 8.56 | 685 |
| 120 | 0 | 0 | 0 | 0.52 | 8.82 | 666 | 8.76 | 670 |
| 130 | 0 | 0 | 0 | 0.52 | 8.95 | 656 | 8.95 | 656 |
| 167 | 0 | 0 | 0 | 0.52 | 9.4 | 625 | 9.4 | 625 |
| 212 | 0 | 0 | 0 | 0.52 | 9.93 | 592 | 9.93 | 592 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 13.25 | 1993 | 13.2 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 12.05 | 866 | 11.89 | 878 |
| 30 | 0 | 0 | 0 | 0.52 | 12.8 | 816 | 12.62 | 827 |
| 40 | 0 | 0 | 0 | 0.52 | 13.05 | 801 | 12.85 | 812 |
| 50 | 0 | 0 | 0 | 0.52 | 13.28 | 786 | 13.09 | 798 |
| 60 | 0 | 0 | 0 | 0.52 | 13.52 | 773 | 13.31 | 785 |
| 70 | 0 | 0 | 0 | 0.52 | 13.75 | 760 | 13.54 | 772 |
| 80 | 0 | 0 | 0 | 0.52 | 13.98 | 748 | 13.76 | 759 |
| 90 | 0 | 0 | 0 | 0.52 | 14.2 | 736 | 13.98 | 747 |
| 100 | 0 | 0 | 0 | 0.52 | 14.42 | 725 | 14.2 | 736 |
| 110 | 0 | 0 | 0 | 0.52 | 14.58 | 717 | 14.41 | 725 |
| 120 | 0 | 0 | 0 | 0.52 | 14.72 | 710 | 14.62 | 715 |
| 130 | 0 | 0 | 0 | 0.52 | 14.86 | 704 | 14.83 | 705 |
| 167 | 0 | 0 | 0 | 0.52 | 15.36 | 681 | 15.36 | 681 |
| 212 | 0 | 0 | 0 | 0.52 | 15.95 | 656 | 15.95 | 656 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 20.73 | 1995 | 20.68 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 19.54 | 837 | 19.37 | 844 |
| 30 | 0 | 0 | 0 | 0.52 | 20.28 | 807 | 20.09 | 814 |
| 40 | 0 | 0 | 0 | 0.52 | 20.52 | 797 | 20.33 | 805 |
| 50 | 0 | 0 | 0 | 0.52 | 20.76 | 788 | 20.56 | 796 |
| 60 | 0 | 0 | 0 | 0.52 | 21 | 779 | 20.79 | 787 |
| 70 | 0 | 0 | 0 | 0.52 | 21.24 | 771 | 21.02 | 778 |
| 80 | 0 | 0 | 0 | 0.52 | 21.47 | 762 | 21.25 | 770 |
| 90 | 0 | 0 | 0 | 0.52 | 21.7 | 754 | 21.48 | 762 |
| 100 | 0 | 0 | 0 | 0.52 | 21.93 | 747 | 21.7 | 755 |
| 110 | 0 | 0 | 0 | 0.52 | 22.12 | 740 | 21.92 | 747 |
| 120 | 0 | 0 | 0 | 0.52 | 22.27 | 736 | 22.14 | 740 |
| 130 | 0 | 0 | 0 | 0.52 | 22.41 | 731 | 22.36 | 733 |
| 167 | 0 | 0 | 0 | 0.52 | 22.95 | 714 | 22.95 | 714 |
| 212 | 0 | 0 | 0 | 0.52 | 23.58 | 695 | 23.58 | 695 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-9 | 1-0 | 1-2 | 1-5 | 1-7 | 1-10 | 2-1 | 2-3 | 2-5 |
| 150.00 | 0-11 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 | 2-8 | 2-11 | 3-3 | 3-5 |
| 175.00 | 1-3 | 1-7 | 1-11 | 2-4 | 2-9 | 3-2 | 3-7 | 4-0 | 4-5 | 4-8 |
| 200.00 | 1-8 | 2-0 | 2-6 | 3-0 | 3-7 | 4-2 | 4-9 | 5-3 | 5-9 | 6-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 |
| 150.00 | 1-0 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-1 | 3-3 | 3-5 |
| 175.00 | 1-4 | 1-8 | 2-1 | 2-7 | 3-1 | 3-6 | 3-11 | 4-3 | 4-5 | 4-8 |
| 200.00 | 1-9 | 2-2 | 2-9 | 3-4 | 4-0 | 4-7 | 5-2 | 5-6 | 5-10 | 6-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 150.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 |
| 175.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 |
| 200.00 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 225.00 | 3-2 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-9 | 5-0 | 5-3 | 5-6 |
| 250.00 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 |
| 150.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 175.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 |
| 200.00 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-3 | 4-4 |
| 225.00 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-6 |
| 250.00 | 4-2 | 4-6 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-6 | 6-8 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 |
| 175.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 |
| 200.00 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 |
| 225.00 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 |
| 250.00 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-8 | 5-10 | 5-11 |
| 275.00 | 5-7 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 |
| 300.00 | 6-7 | 6-10 | 7-1 | 7-4 | 7-6 | 7-9 | 7-11 | 8-2 | 8-4 | 8-7 |
| 325.00 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 |
| 350.00 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-6 | 10-10 | 11-1 | 11-5 | 11-8 |
| 375.00 | 10-4 | 10-8 | 11-1 | 11-5 | 11-9 | 12-1 | 12-5 | 12-9 | 13-1 | 13-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 |
| 175.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 |
| 200.00 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-10 |
| 225.00 | 3-10 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 |
| 250.00 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 5-11 | 6-0 |
| 275.00 | 5-8 | 5-11 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 |
| 300.00 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 | 8-4 | 8-7 | 8-8 |
| 325.00 | 7-11 | 8-3 | 8-6 | 8-9 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-2 |
| 350.00 | 9-3 | 9-7 | 9-11 | 10-2 | 10-6 | 10-10 | 11-1 | 11-5 | 11-8 | 11-10 |
| 375.00 | 10-7 | 11-0 | 11-4 | 11-8 | 12-1 | 12-5 | 12-9 | 13-1 | 13-5 | 13-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 |
| 225.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 250.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 275.00 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-10 |
| 300.00 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 |
| 325.00 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 |
| 350.00 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 |
| 375.00 | 10-11 | 11-1 | 11-4 | 11-6 | 11-8 | 11-11 | 12-1 | 12-3 | 12-6 | 12-8 |
| 400.00 | 12-5 | 12-7 | 12-10 | 13-1 | 13-4 | 13-6 | 13-9 | 14-0 | 14-2 | 14-5 |
| 425.00 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 |
| 450.00 | 15-8 | 16-0 | 16-3 | 16-7 | 16-10 | 17-2 | 17-5 | 17-8 | 18-0 | 18-3 |
| 475.00 | 17-6 | 17-10 | 18-2 | 18-6 | 18-9 | 19-1 | 19-5 | 19-9 | 20-0 | 20-4 |
| 500.00 | 19-4 | 19-9 | 20-1 | 20-6 | 20-10 | 21-2 | 21-6 | 21-10 | 22-2 | 22-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 |
| 225.00 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 |
| 250.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-8 |
| 275.00 | 5-11 | 6-1 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-10 | 6-11 |
| 300.00 | 7-1 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 |
| 325.00 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 |
| 350.00 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 |
| 375.00 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 | 12-1 | 12-3 | 12-6 | 12-8 | 12-10 |
| 400.00 | 12-7 | 12-10 | 13-1 | 13-3 | 13-6 | 13-9 | 14-0 | 14-2 | 14-5 | 14-7 |
| 425.00 | 14-2 | 14-5 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 |
| 450.00 | 15-11 | 16-3 | 16-6 | 16-10 | 17-1 | 17-5 | 17-8 | 18-0 | 18-3 | 18-6 |
| 475.00 | 17-9 | 18-1 | 18-5 | 18-9 | 19-1 | 19-5 | 19-9 | 20-0 | 20-4 | 20-7 |
| 500.00 | 19-8 | 20-0 | 20-5 | 20-9 | 21-2 | 21-6 | 21-10 | 22-2 | 22-7 | 22-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 |
| 275.00 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 |
| 300.00 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 |
| 325.00 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 |
| 350.00 | 9-9 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 | 10-9 |
| 375.00 | 11-2 | 11-3 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 |
| 400.00 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 | 13-11 | 14-0 |
| 425.00 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 |
| 450.00 | 16-1 | 16-3 | 16-5 | 16-8 | 16-10 | 17-0 | 17-2 | 17-5 | 17-7 | 17-9 |
| 475.00 | 17-11 | 18-2 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 | 19-5 | 19-7 | 19-9 |
| 500.00 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-0 | 21-3 | 21-6 | 21-8 | 21-11 |
| 525.00 | 21-11 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 |
| 550.00 | 24-0 | 24-4 | 24-7 | 24-11 | 25-2 | 25-5 | 25-9 | 26-0 | 26-3 | 26-6 |
| 575.00 | 26-3 | 26-7 | 26-11 | 27-3 | 27-6 | 27-10 | 28-2 | 28-5 | 28-9 | 29-0 |
| 600.00 | 28-7 | 28-11 | 29-4 | 29-8 | 30-0 | 30-4 | 30-8 | 31-0 | 31-3 | 31-7 |
| 625.00 | 31-1 | 31-5 | 31-10 | 32-2 | 32-6 | 32-11 | 33-3 | 33-7 | 33-11 | 34-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 |
| 275.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 |
| 300.00 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 7-11 |
| 325.00 | 8-5 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 |
| 350.00 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 | 10-9 | 10-10 |
| 375.00 | 11-3 | 11-5 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 |
| 400.00 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 |
| 425.00 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 |
| 450.00 | 16-3 | 16-5 | 16-7 | 16-10 | 17-0 | 17-2 | 17-5 | 17-7 | 17-9 | 17-11 |
| 475.00 | 18-1 | 18-4 | 18-6 | 18-9 | 18-11 | 19-2 | 19-4 | 19-7 | 19-9 | 19-11 |
| 500.00 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 | 21-8 | 21-11 | 22-1 |
| 525.00 | 22-1 | 22-4 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-5 |
| 550.00 | 24-3 | 24-7 | 24-10 | 25-2 | 25-5 | 25-9 | 26-0 | 26-3 | 26-7 | 26-9 |
| 575.00 | 26-6 | 26-10 | 27-2 | 27-6 | 27-10 | 28-1 | 28-5 | 28-9 | 29-0 | 29-3 |
| 600.00 | 28-11 | 29-3 | 29-7 | 29-11 | 30-3 | 30-7 | 30-11 | 31-3 | 31-7 | 31-11 |
| 625.00 | 31-4 | 31-9 | 32-1 | 32-6 | 32-10 | 33-3 | 33-7 | 33-11 | 34-4 | 34-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 0.67 | 2458 | 0.66 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 0.23 | 2823 | 0.23 | 2823 |
| 30 | 0 | 0 | 0 | 0.52 | 0.38 | 1719 | 0.34 | 1901 |
| 40 | 0 | 0 | 0 | 0.52 | 0.47 | 1380 | 0.41 | 1604 |
| 50 | 0 | 0 | 0 | 0.52 | 0.59 | 1095 | 0.49 | 1326 |
| 60 | 0 | 0 | 0 | 0.52 | 0.74 | 878 | 0.6 | 1083 |
| 70 | 0 | 0 | 0 | 0.52 | 0.9 | 725 | 0.73 | 888 |
| 80 | 0 | 0 | 0 | 0.52 | 1.05 | 618 | 0.88 | 742 |
| 90 | 0 | 0 | 0 | 0.52 | 1.14 | 568 | 1.02 | 636 |
| 100 | 0 | 0 | 0 | 0.52 | 1.22 | 533 | 1.16 | 558 |
| 110 | 0 | 0 | 0 | 0.52 | 1.3 | 501 | 1.3 | 501 |
| 120 | 0 | 0 | 0 | 0.52 | 1.37 | 474 | 1.37 | 474 |
| 130 | 0 | 0 | 0 | 0.52 | 1.45 | 450 | 1.45 | 450 |
| 167 | 0 | 0 | 0 | 0.52 | 1.71 | 381 | 1.71 | 381 |
| 212 | 0 | 0 | 0 | 0.52 | 2 | 326 | 2 | 326 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 2.67 | 2460 | 2.63 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 1.36 | 1916 | 1.28 | 2032 |
| 30 | 0 | 0 | 0 | 0.52 | 2.05 | 1269 | 1.85 | 1408 |
| 40 | 0 | 0 | 0 | 0.52 | 2.3 | 1131 | 2.07 | 1256 |
| 50 | 0 | 0 | 0 | 0.52 | 2.55 | 1022 | 2.3 | 1131 |
| 60 | 0 | 0 | 0 | 0.52 | 2.79 | 934 | 2.53 | 1029 |
| 70 | 0 | 0 | 0 | 0.52 | 3.02 | 863 | 2.75 | 945 |
| 80 | 0 | 0 | 0 | 0.52 | 3.24 | 804 | 2.97 | 875 |
| 90 | 0 | 0 | 0 | 0.52 | 3.45 | 754 | 3.19 | 817 |
| 100 | 0 | 0 | 0 | 0.52 | 3.62 | 719 | 3.39 | 767 |
| 110 | 0 | 0 | 0 | 0.52 | 3.73 | 697 | 3.59 | 725 |
| 120 | 0 | 0 | 0 | 0.52 | 3.85 | 677 | 3.78 | 688 |
| 130 | 0 | 0 | 0 | 0.52 | 3.96 | 657 | 3.96 | 657 |
| 167 | 0 | 0 | 0 | 0.52 | 4.37 | 596 | 4.37 | 596 |
| 212 | 0 | 0 | 0 | 0.52 | 4.83 | 539 | 4.83 | 539 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 5.99 | 2473 | 5.92 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 4.35 | 1347 | 4.11 | 1424 |
| 30 | 0 | 0 | 0 | 0.52 | 5.27 | 1111 | 4.98 | 1175 |
| 40 | 0 | 0 | 0 | 0.52 | 5.56 | 1054 | 5.26 | 1113 |
| 50 | 0 | 0 | 0 | 0.52 | 5.84 | 1003 | 5.54 | 1058 |
| 60 | 0 | 0 | 0 | 0.52 | 6.11 | 959 | 5.81 | 1009 |
| 70 | 0 | 0 | 0 | 0.52 | 6.38 | 919 | 6.07 | 966 |
| 80 | 0 | 0 | 0 | 0.52 | 6.63 | 884 | 6.32 | 927 |
| 90 | 0 | 0 | 0 | 0.52 | 6.88 | 852 | 6.57 | 892 |
| 100 | 0 | 0 | 0 | 0.52 | 7.12 | 823 | 6.81 | 861 |
| 110 | 0 | 0 | 0 | 0.52 | 7.31 | 802 | 7.04 | 832 |
| 120 | 0 | 0 | 0 | 0.52 | 7.45 | 787 | 7.27 | 806 |
| 130 | 0 | 0 | 0 | 0.52 | 7.59 | 773 | 7.5 | 782 |
| 167 | 0 | 0 | 0 | 0.52 | 8.09 | 725 | 8.09 | 725 |
| 212 | 0 | 0 | 0 | 0.52 | 8.68 | 676 | 8.68 | 676 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 10.62 | 2482 | 10.54 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 8.93 | 1167 | 8.65 | 1205 |
| 30 | 0 | 0 | 0 | 0.52 | 9.87 | 1056 | 9.56 | 1090 |
| 40 | 0 | 0 | 0 | 0.52 | 10.17 | 1025 | 9.85 | 1058 |
| 50 | 0 | 0 | 0 | 0.52 | 10.46 | 997 | 10.14 | 1028 |
| 60 | 0 | 0 | 0 | 0.52 | 10.75 | 970 | 10.42 | 1001 |
| 70 | 0 | 0 | 0 | 0.52 | 11.03 | 946 | 10.69 | 975 |
| 80 | 0 | 0 | 0 | 0.52 | 11.3 | 923 | 10.97 | 951 |
| 90 | 0 | 0 | 0 | 0.52 | 11.57 | 902 | 11.23 | 929 |
| 100 | 0 | 0 | 0 | 0.52 | 11.83 | 882 | 11.49 | 908 |
| 110 | 0 | 0 | 0 | 0.52 | 12.09 | 863 | 11.75 | 888 |
| 120 | 0 | 0 | 0 | 0.52 | 12.26 | 852 | 12 | 870 |
| 130 | 0 | 0 | 0 | 0.52 | 12.41 | 841 | 12.25 | 852 |
| 167 | 0 | 0 | 0 | 0.52 | 12.98 | 804 | 12.98 | 804 |
| 212 | 0 | 0 | 0 | 0.52 | 13.66 | 765 | 13.66 | 765 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 16.59 | 2487 | 16.5 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 14.88 | 1096 | 14.59 | 1117 |
| 30 | 0 | 0 | 0 | 0.52 | 15.82 | 1031 | 15.5 | 1052 |
| 40 | 0 | 0 | 0 | 0.52 | 16.12 | 1012 | 15.8 | 1033 |
| 50 | 0 | 0 | 0 | 0.52 | 16.42 | 994 | 16.09 | 1014 |
| 60 | 0 | 0 | 0 | 0.52 | 16.71 | 977 | 16.37 | 997 |
| 70 | 0 | 0 | 0 | 0.52 | 17 | 960 | 16.66 | 980 |
| 80 | 0 | 0 | 0 | 0.52 | 17.29 | 945 | 16.94 | 964 |
| 90 | 0 | 0 | 0 | 0.52 | 17.57 | 930 | 17.21 | 949 |
| 100 | 0 | 0 | 0 | 0.52 | 17.84 | 915 | 17.48 | 934 |
| 110 | 0 | 0 | 0 | 0.52 | 18.12 | 902 | 17.75 | 920 |
| 120 | 0 | 0 | 0 | 0.52 | 18.33 | 891 | 18.02 | 907 |
| 130 | 0 | 0 | 0 | 0.52 | 18.5 | 883 | 18.28 | 894 |
| 167 | 0 | 0 | 0 | 0.52 | 19.12 | 855 | 19.12 | 855 |
| 212 | 0 | 0 | 0 | 0.52 | 19.85 | 824 | 19.85 | 824 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 |
| 125.00 | 0-6 | 0-6 | 0-8 | 0-9 | 0-11 | 1-2 | 1-4 | 1-7 | 1-10 | 2-0 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-4 | 2-7 | 2-11 |
| 175.00 | 0-11 | 1-1 | 1-3 | 1-6 | 1-10 | 2-3 | 2-8 | 3-2 | 3-7 | 4-0 |
| 200.00 | 1-2 | 1-4 | 1-7 | 2-0 | 2-5 | 2-11 | 3-6 | 4-1 | 4-8 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 |
| 125.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-9 | 1-11 | 2-0 |
| 150.00 | 0-8 | 0-10 | 1-1 | 1-4 | 1-8 | 2-0 | 2-4 | 2-7 | 2-9 | 2-11 |
| 175.00 | 0-11 | 1-2 | 1-5 | 1-10 | 2-3 | 2-9 | 3-3 | 3-6 | 3-9 | 4-0 |
| 200.00 | 1-3 | 1-6 | 1-11 | 2-4 | 3-0 | 3-7 | 4-2 | 4-7 | 4-11 | 5-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 200.00 | 1-8 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 |
| 225.00 | 2-1 | 2-4 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 |
| 250.00 | 2-7 | 2-11 | 3-3 | 3-7 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 |
| 175.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 | 2-10 |
| 200.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 |
| 225.00 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 |
| 250.00 | 2-10 | 3-2 | 3-7 | 4-0 | 4-4 | 4-9 | 5-1 | 5-5 | 5-8 | 5-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 |
| 175.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 |
| 225.00 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 |
| 250.00 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 275.00 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 |
| 300.00 | 4-8 | 5-0 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 |
| 325.00 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-1 | 7-5 | 7-9 | 8-0 | 8-3 |
| 350.00 | 6-5 | 6-9 | 7-2 | 7-6 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 |
| 375.00 | 7-4 | 7-9 | 8-3 | 8-8 | 9-1 | 9-6 | 9-11 | 10-3 | 10-8 | 11-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 |
| 175.00 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 200.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 |
| 225.00 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 |
| 250.00 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 |
| 275.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 |
| 300.00 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-1 | 7-4 |
| 325.00 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-6 | 7-9 | 8-1 | 8-4 | 8-7 |
| 350.00 | 6-9 | 7-2 | 7-7 | 7-11 | 8-4 | 8-8 | 9-0 | 9-4 | 9-8 | 9-11 |
| 375.00 | 7-9 | 8-3 | 8-8 | 9-2 | 9-7 | 10-0 | 10-4 | 10-9 | 11-2 | 11-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 |
| 225.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 250.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 |
| 275.00 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 |
| 300.00 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 |
| 325.00 | 6-1 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 |
| 350.00 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 |
| 375.00 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-10 | 10-1 | 10-4 |
| 400.00 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 |
| 425.00 | 10-5 | 10-10 | 11-1 | 11-5 | 11-9 | 12-1 | 12-5 | 12-8 | 13-0 | 13-3 |
| 450.00 | 11-9 | 12-1 | 12-6 | 12-10 | 13-2 | 13-6 | 13-11 | 14-3 | 14-7 | 14-10 |
| 475.00 | 13-1 | 13-6 | 13-11 | 14-4 | 14-8 | 15-1 | 15-6 | 15-10 | 16-3 | 16-7 |
| 500.00 | 14-6 | 14-11 | 15-5 | 15-10 | 16-3 | 16-9 | 17-2 | 17-7 | 18-0 | 18-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 |
| 225.00 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 250.00 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-9 |
| 275.00 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 |
| 300.00 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 |
| 325.00 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 |
| 350.00 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 |
| 375.00 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 |
| 400.00 | 9-7 | 9-10 | 10-2 | 10-6 | 10-9 | 11-0 | 11-4 | 11-7 | 11-10 | 12-1 |
| 425.00 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 | 12-5 | 12-9 | 13-1 | 13-4 | 13-8 |
| 450.00 | 12-1 | 12-6 | 12-10 | 13-3 | 13-7 | 14-0 | 14-4 | 14-8 | 15-0 | 15-4 |
| 475.00 | 13-6 | 13-11 | 14-4 | 14-9 | 15-2 | 15-7 | 15-11 | 16-4 | 16-8 | 17-1 |
| 500.00 | 14-11 | 15-5 | 15-11 | 16-4 | 16-10 | 17-3 | 17-8 | 18-1 | 18-6 | 18-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 |
| 275.00 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 300.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-5 |
| 325.00 | 6-5 | 6-7 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 |
| 350.00 | 7-5 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 | 8-4 | 8-5 | 8-7 | 8-8 |
| 375.00 | 8-7 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 |
| 400.00 | 9-9 | 9-11 | 10-1 | 10-3 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 |
| 425.00 | 11-0 | 11-2 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-8 | 12-10 |
| 450.00 | 12-4 | 12-7 | 12-10 | 13-0 | 13-3 | 13-6 | 13-9 | 13-11 | 14-2 | 14-4 |
| 475.00 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 |
| 500.00 | 15-2 | 15-6 | 15-10 | 16-1 | 16-4 | 16-8 | 16-11 | 17-3 | 17-6 | 17-9 |
| 525.00 | 16-9 | 17-1 | 17-5 | 17-9 | 18-1 | 18-4 | 18-8 | 19-0 | 19-3 | 19-7 |
| 550.00 | 18-5 | 18-9 | 19-1 | 19-6 | 19-10 | 20-2 | 20-6 | 20-10 | 21-2 | 21-6 |
| 575.00 | 20-1 | 20-6 | 20-11 | 21-3 | 21-8 | 22-0 | 22-5 | 22-9 | 23-2 | 23-6 |
| 600.00 | 21-11 | 22-4 | 22-9 | 23-2 | 23-7 | 24-0 | 24-5 | 24-10 | 25-2 | 25-7 |
| 625.00 | 23-9 | 24-3 | 24-8 | 25-2 | 25-7 | 26-1 | 26-6 | 26-11 | 27-4 | 27-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 |
| 275.00 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 300.00 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 |
| 325.00 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-8 |
| 350.00 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-10 |
| 375.00 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 |
| 400.00 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 |
| 425.00 | 11-2 | 11-5 | 11-8 | 11-10 | 12-1 | 12-3 | 12-6 | 12-8 | 12-11 | 13-1 |
| 450.00 | 12-7 | 12-10 | 13-1 | 13-4 | 13-6 | 13-9 | 14-0 | 14-3 | 14-5 | 14-8 |
| 475.00 | 14-0 | 14-3 | 14-7 | 14-10 | 15-1 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 |
| 500.00 | 15-6 | 15-10 | 16-1 | 16-5 | 16-9 | 17-0 | 17-3 | 17-7 | 17-10 | 18-1 |
| 525.00 | 17-1 | 17-5 | 17-9 | 18-1 | 18-5 | 18-9 | 19-1 | 19-4 | 19-8 | 20-0 |
| 550.00 | 18-9 | 19-2 | 19-6 | 19-11 | 20-3 | 20-7 | 20-11 | 21-3 | 21-7 | 21-11 |
| 575.00 | 20-6 | 20-11 | 21-4 | 21-9 | 22-1 | 22-6 | 22-10 | 23-3 | 23-7 | 24-0 |
| 600.00 | 22-4 | 22-10 | 23-3 | 23-8 | 24-1 | 24-6 | 24-11 | 25-4 | 25-9 | 26-1 |
| 625.00 | 24-3 | 24-9 | 25-3 | 25-8 | 26-2 | 26-7 | 27-0 | 27-6 | 27-11 | 28-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 0.57 | 2867 | 0.55 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.19 | 3405 | 0.19 | 3405 |
| 30 | 0 | 0 | 0 | 0.52 | 0.3 | 2194 | 0.26 | 2487 |
| 40 | 0 | 0 | 0 | 0.52 | 0.36 | 1815 | 0.3 | 2176 |
| 50 | 0 | 0 | 0 | 0.52 | 0.44 | 1466 | 0.35 | 1869 |
| 60 | 0 | 0 | 0 | 0.52 | 0.56 | 1164 | 0.41 | 1571 |
| 70 | 0 | 0 | 0 | 0.52 | 0.7 | 929 | 0.5 | 1295 |
| 80 | 0 | 0 | 0 | 0.52 | 0.86 | 760 | 0.62 | 1056 |
| 90 | 0 | 0 | 0 | 0.52 | 0.95 | 686 | 0.75 | 867 |
| 100 | 0 | 0 | 0 | 0.52 | 1.02 | 638 | 0.9 | 726 |
| 110 | 0 | 0 | 0 | 0.52 | 1.09 | 594 | 1.04 | 624 |
| 120 | 0 | 0 | 0 | 0.52 | 1.17 | 556 | 1.17 | 556 |
| 130 | 0 | 0 | 0 | 0.52 | 1.24 | 522 | 1.24 | 523 |
| 167 | 0 | 0 | 0 | 0.52 | 1.52 | 428 | 1.52 | 428 |
| 212 | 0 | 0 | 0 | 0.52 | 1.83 | 356 | 1.83 | 356 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 2.26 | 2909 | 2.19 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.98 | 2666 | 0.92 | 2816 |
| 30 | 0 | 0 | 0 | 0.52 | 1.5 | 1738 | 1.29 | 2015 |
| 40 | 0 | 0 | 0 | 0.52 | 1.72 | 1509 | 1.46 | 1780 |
| 50 | 0 | 0 | 0 | 0.52 | 1.97 | 1322 | 1.65 | 1572 |
| 60 | 0 | 0 | 0 | 0.52 | 2.22 | 1173 | 1.87 | 1393 |
| 70 | 0 | 0 | 0 | 0.52 | 2.46 | 1055 | 2.09 | 1243 |
| 80 | 0 | 0 | 0 | 0.52 | 2.71 | 961 | 2.32 | 1120 |
| 90 | 0 | 0 | 0 | 0.52 | 2.94 | 885 | 2.55 | 1019 |
| 100 | 0 | 0 | 0 | 0.52 | 3.13 | 832 | 2.78 | 936 |
| 110 | 0 | 0 | 0 | 0.52 | 3.25 | 801 | 3 | 868 |
| 120 | 0 | 0 | 0 | 0.52 | 3.37 | 773 | 3.21 | 810 |
| 130 | 0 | 0 | 0 | 0.52 | 3.49 | 747 | 3.42 | 762 |
| 167 | 0 | 0 | 0 | 0.52 | 3.91 | 666 | 3.91 | 666 |
| 212 | 0 | 0 | 0 | 0.52 | 4.4 | 591 | 4.4 | 592 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 5.03 | 2941 | 4.93 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 3.05 | 1920 | 2.79 | 2100 |
| 30 | 0 | 0 | 0 | 0.52 | 4.02 | 1456 | 3.63 | 1614 |
| 40 | 0 | 0 | 0 | 0.52 | 4.34 | 1348 | 3.92 | 1492 |
| 50 | 0 | 0 | 0 | 0.52 | 4.66 | 1256 | 4.22 | 1387 |
| 60 | 0 | 0 | 0 | 0.52 | 4.97 | 1179 | 4.52 | 1296 |
| 70 | 0 | 0 | 0 | 0.52 | 5.27 | 1112 | 4.81 | 1217 |
| 80 | 0 | 0 | 0 | 0.52 | 5.56 | 1054 | 5.1 | 1149 |
| 90 | 0 | 0 | 0 | 0.52 | 5.84 | 1004 | 5.38 | 1090 |
| 100 | 0 | 0 | 0 | 0.52 | 6.11 | 959 | 5.65 | 1037 |
| 110 | 0 | 0 | 0 | 0.52 | 6.34 | 924 | 5.91 | 991 |
| 120 | 0 | 0 | 0 | 0.52 | 6.49 | 903 | 6.17 | 949 |
| 130 | 0 | 0 | 0 | 0.52 | 6.64 | 883 | 6.43 | 912 |
| 167 | 0 | 0 | 0 | 0.52 | 7.18 | 817 | 7.17 | 817 |
| 212 | 0 | 0 | 0 | 0.52 | 7.81 | 751 | 7.8 | 752 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 8.9 | 2960 | 8.78 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 6.69 | 1556 | 6.28 | 1659 |
| 30 | 0 | 0 | 0 | 0.52 | 7.79 | 1336 | 7.32 | 1422 |
| 40 | 0 | 0 | 0 | 0.52 | 8.14 | 1279 | 7.66 | 1359 |
| 50 | 0 | 0 | 0 | 0.52 | 8.49 | 1228 | 8 | 1303 |
| 60 | 0 | 0 | 0 | 0.52 | 8.82 | 1182 | 8.32 | 1252 |
| 70 | 0 | 0 | 0 | 0.52 | 9.14 | 1140 | 8.64 | 1205 |
| 80 | 0 | 0 | 0 | 0.52 | 9.46 | 1102 | 8.96 | 1163 |
| 90 | 0 | 0 | 0 | 0.52 | 9.77 | 1067 | 9.26 | 1125 |
| 100 | 0 | 0 | 0 | 0.52 | 10.07 | 1036 | 9.56 | 1090 |
| 110 | 0 | 0 | 0 | 0.52 | 10.36 | 1006 | 9.86 | 1058 |
| 120 | 0 | 0 | 0 | 0.52 | 10.59 | 985 | 10.15 | 1028 |
| 130 | 0 | 0 | 0 | 0.52 | 10.76 | 969 | 10.43 | 1000 |
| 167 | 0 | 0 | 0 | 0.52 | 11.39 | 916 | 11.38 | 917 |
| 212 | 0 | 0 | 0 | 0.52 | 12.12 | 861 | 12.11 | 862 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.314 | 13.86 | 2972 | 13.73 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 11.59 | 1405 | 11.13 | 1462 |
| 30 | 0 | 0 | 0 | 0.52 | 12.72 | 1281 | 12.22 | 1333 |
| 40 | 0 | 0 | 0 | 0.52 | 13.08 | 1246 | 12.57 | 1296 |
| 50 | 0 | 0 | 0 | 0.52 | 13.43 | 1214 | 12.92 | 1261 |
| 60 | 0 | 0 | 0 | 0.52 | 13.77 | 1183 | 13.26 | 1229 |
| 70 | 0 | 0 | 0 | 0.52 | 14.11 | 1155 | 13.59 | 1199 |
| 80 | 0 | 0 | 0 | 0.52 | 14.44 | 1129 | 13.92 | 1171 |
| 90 | 0 | 0 | 0 | 0.52 | 14.77 | 1104 | 14.24 | 1145 |
| 100 | 0 | 0 | 0 | 0.52 | 15.09 | 1081 | 14.56 | 1120 |
| 110 | 0 | 0 | 0 | 0.52 | 15.4 | 1059 | 14.87 | 1097 |
| 120 | 0 | 0 | 0 | 0.52 | 15.71 | 1038 | 15.18 | 1075 |
| 130 | 0 | 0 | 0 | 0.52 | 15.9 | 1026 | 15.48 | 1054 |
| 167 | 0 | 0 | 0 | 0.52 | 16.59 | 984 | 16.56 | 986 |
| 212 | 0 | 0 | 0 | 0.52 | 17.4 | 938 | 17.39 | 939 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 1-0 | 1-2 | 1-5 | 1-8 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-11 | 2-4 | 2-9 | 3-2 |
| 200.00 | 0-11 | 1-1 | 1-2 | 1-5 | 1-8 | 2-0 | 2-6 | 3-0 | 3-7 | 4-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-6 | 1-7 | 1-9 |
| 150.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 1-11 | 2-2 | 2-4 | 2-6 |
| 175.00 | 0-9 | 0-11 | 1-1 | 1-4 | 1-9 | 2-2 | 2-7 | 2-11 | 3-1 | 3-4 |
| 200.00 | 1-0 | 1-2 | 1-5 | 1-9 | 2-3 | 2-10 | 3-5 | 3-9 | 4-1 | 4-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 |
| 200.00 | 1-2 | 1-3 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 |
| 225.00 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 |
| 250.00 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-4 | 4-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 |
| 200.00 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-3 |
| 225.00 | 1-8 | 1-11 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 | 3-9 | 4-0 | 4-1 |
| 250.00 | 2-0 | 2-4 | 2-8 | 3-1 | 3-6 | 3-10 | 4-3 | 4-7 | 4-11 | 5-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 175.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 200.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 225.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 250.00 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 |
| 275.00 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 |
| 300.00 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 |
| 325.00 | 3-11 | 4-3 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 |
| 350.00 | 4-6 | 4-11 | 5-4 | 5-9 | 6-2 | 6-7 | 6-11 | 7-4 | 7-8 | 8-1 |
| 375.00 | 5-3 | 5-8 | 6-2 | 6-7 | 7-1 | 7-6 | 8-0 | 8-5 | 8-10 | 9-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 |
| 175.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 225.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 |
| 250.00 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 |
| 275.00 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 |
| 300.00 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-4 |
| 325.00 | 4-4 | 4-9 | 5-1 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 |
| 350.00 | 5-0 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 7-11 | 8-4 | 8-8 |
| 375.00 | 5-9 | 6-3 | 6-9 | 7-3 | 7-9 | 8-3 | 8-8 | 9-1 | 9-7 | 9-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 225.00 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 250.00 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 |
| 275.00 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 |
| 300.00 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 |
| 325.00 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 |
| 350.00 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 |
| 375.00 | 6-2 | 6-5 | 6-9 | 7-0 | 7-4 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 |
| 400.00 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-8 | 8-11 | 9-3 | 9-7 | 9-10 |
| 425.00 | 7-11 | 8-3 | 8-8 | 9-0 | 9-5 | 9-9 | 10-1 | 10-6 | 10-10 | 11-2 |
| 450.00 | 8-10 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 | 11-4 | 11-9 | 12-1 | 12-6 |
| 475.00 | 9-10 | 10-4 | 10-10 | 11-3 | 11-9 | 12-2 | 12-8 | 13-1 | 13-6 | 13-11 |
| 500.00 | 10-11 | 11-5 | 12-0 | 12-6 | 13-0 | 13-6 | 14-0 | 14-6 | 14-11 | 15-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 225.00 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 250.00 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 |
| 275.00 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-11 |
| 300.00 | 4-2 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 |
| 325.00 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 |
| 350.00 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 |
| 375.00 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 | 9-1 |
| 400.00 | 7-5 | 7-10 | 8-2 | 8-6 | 8-10 | 9-2 | 9-5 | 9-9 | 10-1 | 10-4 |
| 425.00 | 8-5 | 8-10 | 9-2 | 9-7 | 9-11 | 10-4 | 10-8 | 11-0 | 11-4 | 11-8 |
| 450.00 | 9-5 | 9-10 | 10-4 | 10-9 | 11-2 | 11-7 | 12-0 | 12-4 | 12-9 | 13-1 |
| 475.00 | 10-6 | 11-0 | 11-6 | 12-0 | 12-5 | 12-11 | 13-4 | 13-9 | 14-2 | 14-7 |
| 500.00 | 11-7 | 12-2 | 12-9 | 13-3 | 13-9 | 14-3 | 14-9 | 15-3 | 15-9 | 16-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 275.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 |
| 300.00 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 |
| 325.00 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 |
| 350.00 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 |
| 375.00 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 |
| 400.00 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 |
| 425.00 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 | 10-9 |
| 450.00 | 9-7 | 9-11 | 10-2 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 |
| 475.00 | 10-9 | 11-0 | 11-4 | 11-8 | 12-0 | 12-3 | 12-7 | 12-10 | 13-2 | 13-5 |
| 500.00 | 11-10 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 | 14-7 | 14-10 |
| 525.00 | 13-1 | 13-6 | 13-10 | 14-3 | 14-7 | 15-0 | 15-4 | 15-8 | 16-1 | 16-5 |
| 550.00 | 14-4 | 14-10 | 15-3 | 15-8 | 16-1 | 16-5 | 16-10 | 17-3 | 17-7 | 18-0 |
| 575.00 | 15-8 | 16-2 | 16-8 | 17-1 | 17-6 | 18-0 | 18-5 | 18-10 | 19-3 | 19-8 |
| 600.00 | 17-1 | 17-7 | 18-1 | 18-7 | 19-1 | 19-7 | 20-1 | 20-6 | 21-0 | 21-5 |
| 625.00 | 18-7 | 19-1 | 19-8 | 20-2 | 20-9 | 21-3 | 21-9 | 22-3 | 22-9 | 23-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 |
| 300.00 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 |
| 325.00 | 5-3 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-6 |
| 350.00 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 |
| 375.00 | 6-11 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 | 8-4 | 8-6 | 8-8 |
| 400.00 | 7-11 | 8-2 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-8 | 9-10 |
| 425.00 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 |
| 450.00 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 | 11-5 | 11-8 | 12-0 | 12-3 | 12-6 |
| 475.00 | 11-2 | 11-6 | 11-10 | 12-1 | 12-5 | 12-9 | 13-0 | 13-4 | 13-7 | 13-11 |
| 500.00 | 12-4 | 12-9 | 13-1 | 13-5 | 13-9 | 14-1 | 14-5 | 14-9 | 15-1 | 15-5 |
| 525.00 | 13-7 | 14-0 | 14-5 | 14-10 | 15-2 | 15-7 | 15-11 | 16-3 | 16-8 | 17-0 |
| 550.00 | 14-11 | 15-5 | 15-10 | 16-3 | 16-8 | 17-1 | 17-6 | 17-11 | 18-3 | 18-8 |
| 575.00 | 16-4 | 16-10 | 17-4 | 17-9 | 18-3 | 18-8 | 19-1 | 19-6 | 20-0 | 20-5 |
| 600.00 | 17-10 | 18-4 | 18-10 | 19-4 | 19-10 | 20-4 | 20-10 | 21-3 | 21-9 | 22-2 |
| 625.00 | 19-4 | 19-11 | 20-5 | 21-0 | 21-6 | 22-1 | 22-7 | 23-1 | 23-7 | 24-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 2.66 | 1000 | 2.66 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 2.27 | 287 | 2.25 | 289 |
| 30 | 0 | 0 | 0 | 0.52 | 2.36 | 276 | 2.34 | 278 |
| 40 | 0 | 0 | 0 | 0.52 | 2.44 | 267 | 2.42 | 269 |
| 50 | 0 | 0 | 0 | 0.52 | 2.52 | 259 | 2.5 | 260 |
| 60 | 0 | 0 | 0 | 0.52 | 2.6 | 251 | 2.58 | 253 |
| 70 | 0 | 0 | 0 | 0.52 | 2.67 | 244 | 2.65 | 246 |
| 80 | 0 | 0 | 0 | 0.52 | 2.72 | 240 | 2.72 | 240 |
| 90 | 0 | 0 | 0 | 0.52 | 2.77 | 236 | 2.77 | 236 |
| 100 | 0 | 0 | 0 | 0.52 | 2.81 | 232 | 2.81 | 232 |
| 110 | 0 | 0 | 0 | 0.52 | 2.86 | 228 | 2.86 | 228 |
| 120 | 0 | 0 | 0 | 0.52 | 2.9 | 225 | 2.9 | 225 |
| 130 | 0 | 0 | 0 | 0.52 | 2.95 | 221 | 2.95 | 221 |
| 167 | 0 | 0 | 0 | 0.52 | 3.11 | 210 | 3.11 | 210 |
| 212 | 0 | 0 | 0 | 0.52 | 3.3 | 198 | 3.3 | 198 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 10.72 | 1000 | 10.72 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 10.35 | 254 | 10.33 | 254 |
| 30 | 0 | 0 | 0 | 0.52 | 10.43 | 252 | 10.42 | 252 |
| 40 | 0 | 0 | 0 | 0.52 | 10.51 | 250 | 10.49 | 251 |
| 50 | 0 | 0 | 0 | 0.52 | 10.59 | 248 | 10.57 | 249 |
| 60 | 0 | 0 | 0 | 0.52 | 10.66 | 247 | 10.64 | 247 |
| 70 | 0 | 0 | 0 | 0.52 | 10.73 | 245 | 10.72 | 245 |
| 80 | 0 | 0 | 0 | 0.52 | 10.79 | 244 | 10.79 | 244 |
| 90 | 0 | 0 | 0 | 0.52 | 10.84 | 243 | 10.84 | 243 |
| 100 | 0 | 0 | 0 | 0.52 | 10.89 | 242 | 10.89 | 242 |
| 110 | 0 | 0 | 0 | 0.52 | 10.94 | 241 | 10.94 | 241 |
| 120 | 0 | 0 | 0 | 0.52 | 10.98 | 240 | 10.98 | 240 |
| 130 | 0 | 0 | 0 | 0.52 | 11.03 | 239 | 11.03 | 239 |
| 167 | 0 | 0 | 0 | 0.52 | 11.21 | 235 | 11.21 | 235 |
| 212 | 0 | 0 | 0 | 0.52 | 11.43 | 230 | 11.43 | 230 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 24.49 | 1000 | 24.49 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 24.12 | 249 | 24.1 | 249 |
| 30 | 0 | 0 | 0 | 0.52 | 24.2 | 248 | 24.19 | 248 |
| 40 | 0 | 0 | 0 | 0.52 | 24.28 | 247 | 24.26 | 247 |
| 50 | 0 | 0 | 0 | 0.52 | 24.35 | 247 | 24.33 | 247 |
| 60 | 0 | 0 | 0 | 0.52 | 24.43 | 246 | 24.41 | 246 |
| 70 | 0 | 0 | 0 | 0.52 | 24.5 | 245 | 24.48 | 245 |
| 80 | 0 | 0 | 0 | 0.52 | 24.55 | 245 | 24.55 | 245 |
| 90 | 0 | 0 | 0 | 0.52 | 24.6 | 244 | 24.6 | 244 |
| 100 | 0 | 0 | 0 | 0.52 | 24.65 | 244 | 24.65 | 244 |
| 110 | 0 | 0 | 0 | 0.52 | 24.7 | 243 | 24.7 | 243 |
| 120 | 0 | 0 | 0 | 0.52 | 24.75 | 243 | 24.75 | 243 |
| 130 | 0 | 0 | 0 | 0.52 | 24.8 | 242 | 24.8 | 242 |
| 167 | 0 | 0 | 0 | 0.52 | 24.99 | 241 | 24.99 | 241 |
| 212 | 0 | 0 | 0 | 0.52 | 25.21 | 239 | 25.21 | 239 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 44.51 | 1000 | 44.51 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 44.15 | 247 | 44.12 | 247 |
| 30 | 0 | 0 | 0 | 0.52 | 44.22 | 247 | 44.21 | 247 |
| 40 | 0 | 0 | 0 | 0.52 | 44.3 | 246 | 44.28 | 246 |
| 50 | 0 | 0 | 0 | 0.52 | 44.38 | 246 | 44.36 | 246 |
| 60 | 0 | 0 | 0 | 0.52 | 44.45 | 246 | 44.43 | 246 |
| 70 | 0 | 0 | 0 | 0.52 | 44.52 | 245 | 44.51 | 245 |
| 80 | 0 | 0 | 0 | 0.52 | 44.58 | 245 | 44.58 | 245 |
| 90 | 0 | 0 | 0 | 0.52 | 44.63 | 245 | 44.63 | 245 |
| 100 | 0 | 0 | 0 | 0.52 | 44.68 | 244 | 44.68 | 244 |
| 110 | 0 | 0 | 0 | 0.52 | 44.73 | 244 | 44.73 | 244 |
| 120 | 0 | 0 | 0 | 0.52 | 44.78 | 244 | 44.78 | 244 |
| 130 | 0 | 0 | 0 | 0.52 | 44.83 | 244 | 44.83 | 244 |
| 167 | 0 | 0 | 0 | 0.52 | 45.01 | 243 | 45.01 | 243 |
| 212 | 0 | 0 | 0 | 0.52 | 45.24 | 242 | 45.24 | 242 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 71.75 | 1000 | 71.75 | 1000* |
| 20 | 0 | 0 | 0 | 0.52 | 71.38 | 246 | 71.36 | 246 |
| 30 | 0 | 0 | 0 | 0.52 | 71.46 | 246 | 71.45 | 246 |
| 40 | 0 | 0 | 0 | 0.52 | 71.54 | 246 | 71.52 | 246 |
| 50 | 0 | 0 | 0 | 0.52 | 71.61 | 246 | 71.59 | 246 |
| 60 | 0 | 0 | 0 | 0.52 | 71.69 | 245 | 71.67 | 245 |
| 70 | 0 | 0 | 0 | 0.52 | 71.76 | 245 | 71.74 | 245 |
| 80 | 0 | 0 | 0 | 0.52 | 71.81 | 245 | 71.81 | 245 |
| 90 | 0 | 0 | 0 | 0.52 | 71.86 | 245 | 71.86 | 245 |
| 100 | 0 | 0 | 0 | 0.52 | 71.91 | 245 | 71.91 | 245 |
| 110 | 0 | 0 | 0 | 0.52 | 71.96 | 245 | 71.96 | 245 |
| 120 | 0 | 0 | 0 | 0.52 | 72.01 | 245 | 72.01 | 245 |
| 130 | 0 | 0 | 0 | 0.52 | 72.06 | 244 | 72.06 | 244 |
| 167 | 0 | 0 | 0 | 0.52 | 72.25 | 244 | 72.25 | 244 |
| 212 | 0 | 0 | 0 | 0.52 | 72.47 | 243 | 72.47 | 243 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 100.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 |
| 125.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 150.00 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 |
| 175.00 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 |
| 200.00 | 9-0 | 9-5 | 9-9 | 10-0 | 10-4 | 10-8 | 10-11 | 11-1 | 11-3 | 11-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 100.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 |
| 125.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 150.00 | 5-1 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 |
| 175.00 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 |
| 200.00 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-8 | 10-11 | 11-1 | 11-3 | 11-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 |
| 125.00 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 |
| 150.00 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 |
| 175.00 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 |
| 200.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 10-11 |
| 225.00 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 |
| 250.00 | 16-2 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 | 16-11 | 17-0 | 17-1 | 17-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 |
| 125.00 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 |
| 150.00 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 |
| 175.00 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 |
| 200.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 10-11 |
| 225.00 | 13-1 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 |
| 250.00 | 16-3 | 16-4 | 16-5 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.285

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-2 |
| 175.00 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-4 |
| 200.00 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 |
| 225.00 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 |
| 250.00 | 16-8 | 16-9 | 16-10 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 |
| 275.00 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-9 |
| 300.00 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-7 | 24-8 | 24-8 |
| 325.00 | 28-4 | 28-5 | 28-6 | 28-7 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-0 |
| 350.00 | 32-11 | 33-0 | 33-1 | 33-3 | 33-4 | 33-5 | 33-6 | 33-7 | 33-8 | 33-9 |
| 375.00 | 37-10 | 38-0 | 38-1 | 38-2 | 38-4 | 38-5 | 38-7 | 38-8 | 38-9 | 38-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-2 |
| 175.00 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-4 |
| 200.00 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 |
| 225.00 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 |
| 250.00 | 16-9 | 16-9 | 16-10 | 16-10 | 16-11 | 17-0 | 17-0 | 17-0 | 17-1 | 17-1 |
| 275.00 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-9 |
| 300.00 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-7 | 24-8 | 24-8 |
| 325.00 | 28-4 | 28-5 | 28-6 | 28-7 | 28-9 | 28-10 | 28-10 | 28-11 | 29-0 | 29-0 |
| 350.00 | 32-11 | 33-0 | 33-2 | 33-3 | 33-4 | 33-5 | 33-6 | 33-7 | 33-8 | 33-9 |
| 375.00 | 37-10 | 38-0 | 38-1 | 38-3 | 38-4 | 38-6 | 38-7 | 38-8 | 38-9 | 38-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-11 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-0 | 11-0 | 11-1 |
| 225.00 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 |
| 250.00 | 17-1 | 17-1 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-3 | 17-4 |
| 275.00 | 20-8 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 |
| 300.00 | 24-8 | 24-8 | 24-9 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 | 24-11 | 25-0 |
| 325.00 | 29-0 | 29-0 | 29-1 | 29-2 | 29-2 | 29-3 | 29-3 | 29-4 | 29-4 | 29-4 |
| 350.00 | 33-8 | 33-9 | 33-9 | 33-10 | 33-11 | 33-11 | 34-0 | 34-0 | 34-1 | 34-1 |
| 375.00 | 38-8 | 38-9 | 38-10 | 38-11 | 39-0 | 39-0 | 39-1 | 39-2 | 39-2 | 39-3 |
| 400.00 | 44-1 | 44-3 | 44-3 | 44-4 | 44-5 | 44-6 | 44-7 | 44-8 | 44-8 | 44-9 |
| 425.00 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-6 | 50-7 |
| 450.00 | 56-1 | 56-2 | 56-3 | 56-5 | 56-6 | 56-7 | 56-8 | 56-9 | 56-9 | 56-10 |
| 475.00 | 62-7 | 62-9 | 62-10 | 63-0 | 63-1 | 63-2 | 63-3 | 63-4 | 63-5 | 63-6 |
| 500.00 | 69-7 | 69-8 | 69-10 | 69-11 | 70-1 | 70-2 | 70-3 | 70-4 | 70-5 | 70-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-0 | 11-0 | 11-0 | 11-1 |
| 225.00 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 |
| 250.00 | 17-1 | 17-1 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-3 | 17-4 |
| 275.00 | 20-8 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 |
| 300.00 | 24-8 | 24-8 | 24-9 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 | 24-11 | 25-0 |
| 325.00 | 29-0 | 29-0 | 29-1 | 29-2 | 29-2 | 29-3 | 29-3 | 29-4 | 29-4 | 29-4 |
| 350.00 | 33-8 | 33-9 | 33-10 | 33-10 | 33-11 | 34-0 | 34-0 | 34-0 | 34-1 | 34-1 |
| 375.00 | 38-9 | 38-10 | 38-10 | 38-11 | 39-0 | 39-1 | 39-1 | 39-2 | 39-2 | 39-3 |
| 400.00 | 44-2 | 44-3 | 44-4 | 44-5 | 44-5 | 44-6 | 44-7 | 44-8 | 44-8 | 44-9 |
| 425.00 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-6 | 50-7 |
| 450.00 | 56-1 | 56-2 | 56-4 | 56-5 | 56-6 | 56-7 | 56-8 | 56-9 | 56-9 | 56-10 |
| 475.00 | 62-8 | 62-9 | 62-11 | 63-0 | 63-1 | 63-2 | 63-3 | 63-4 | 63-5 | 63-6 |
| 500.00 | 69-7 | 69-9 | 69-10 | 69-11 | 70-1 | 70-2 | 70-3 | 70-4 | 70-5 | 70-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 |
| 275.00 | 21-2 | 21-3 | 21-3 | 21-3 | 21-3 | 21-4 | 21-4 | 21-4 | 21-4 | 21-5 |
| 300.00 | 25-3 | 25-4 | 25-4 | 25-4 | 25-5 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 |
| 325.00 | 29-8 | 29-9 | 29-9 | 29-10 | 29-10 | 29-10 | 29-11 | 29-11 | 29-11 | 29-11 |
| 350.00 | 34-6 | 34-7 | 34-7 | 34-7 | 34-8 | 34-8 | 34-9 | 34-9 | 34-9 | 34-10 |
| 375.00 | 39-8 | 39-9 | 39-9 | 39-10 | 39-10 | 39-11 | 39-11 | 40-0 | 40-0 | 40-0 |
| 400.00 | 45-3 | 45-4 | 45-4 | 45-5 | 45-5 | 45-6 | 45-6 | 45-7 | 45-7 | 45-7 |
| 425.00 | 51-2 | 51-3 | 51-4 | 51-4 | 51-5 | 51-6 | 51-6 | 51-7 | 51-7 | 51-7 |
| 450.00 | 57-6 | 57-7 | 57-8 | 57-8 | 57-9 | 57-10 | 57-11 | 57-11 | 58-0 | 58-0 |
| 475.00 | 64-3 | 64-4 | 64-5 | 64-5 | 64-6 | 64-7 | 64-8 | 64-8 | 64-9 | 64-9 |
| 500.00 | 71-4 | 71-5 | 71-6 | 71-7 | 71-8 | 71-9 | 71-10 | 71-10 | 71-11 | 72-0 |
| 525.00 | 78-11 | 79-0 | 79-1 | 79-2 | 79-3 | 79-4 | 79-5 | 79-5 | 79-6 | 79-7 |
| 550.00 | 86-10 | 86-11 | 87-0 | 87-1 | 87-2 | 87-3 | 87-4 | 87-5 | 87-6 | 87-7 |
| 575.00 | 95-2 | 95-3 | 95-4 | 95-6 | 95-7 | 95-8 | 95-9 | 95-10 | 95-11 | 96-0 |
| 600.00 | 103-11 | 104-1 | 104-2 | 104-3 | 104-5 | 104-6 | 104-7 | 104-8 | 104-9 | 104-10 |
| 625.00 | 113-1 | 113-3 | 113-5 | 113-6 | 113-7 | 113-9 | 113-10 | 113-11 | 114-0 | 114-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 |
| 275.00 | 21-3 | 21-3 | 21-3 | 21-3 | 21-4 | 21-4 | 21-4 | 21-4 | 21-4 | 21-5 |
| 300.00 | 25-3 | 25-4 | 25-4 | 25-4 | 25-5 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 |
| 325.00 | 29-9 | 29-9 | 29-9 | 29-10 | 29-10 | 29-10 | 29-11 | 29-11 | 29-11 | 29-11 |
| 350.00 | 34-6 | 34-7 | 34-7 | 34-8 | 34-8 | 34-8 | 34-9 | 34-9 | 34-9 | 34-10 |
| 375.00 | 39-8 | 39-9 | 39-9 | 39-10 | 39-10 | 39-11 | 39-11 | 40-0 | 40-0 | 40-0 |
| 400.00 | 45-3 | 45-4 | 45-4 | 45-5 | 45-5 | 45-6 | 45-6 | 45-7 | 45-7 | 45-7 |
| 425.00 | 51-3 | 51-3 | 51-4 | 51-4 | 51-5 | 51-6 | 51-6 | 51-7 | 51-7 | 51-7 |
| 450.00 | 57-6 | 57-7 | 57-8 | 57-9 | 57-9 | 57-10 | 57-11 | 57-11 | 58-0 | 58-0 |
| 475.00 | 64-3 | 64-4 | 64-5 | 64-6 | 64-6 | 64-7 | 64-8 | 64-8 | 64-9 | 64-9 |
| 500.00 | 71-5 | 71-6 | 71-6 | 71-7 | 71-8 | 71-9 | 71-10 | 71-10 | 71-11 | 72-0 |
| 525.00 | 78-11 | 79-0 | 79-1 | 79-2 | 79-3 | 79-4 | 79-5 | 79-5 | 79-6 | 79-7 |
| 550.00 | 86-10 | 86-11 | 87-0 | 87-1 | 87-3 | 87-4 | 87-4 | 87-5 | 87-6 | 87-7 |
| 575.00 | 95-2 | 95-4 | 95-5 | 95-6 | 95-7 | 95-8 | 95-9 | 95-10 | 95-11 | 96-0 |
| 600.00 | 104-0 | 104-1 | 104-2 | 104-4 | 104-5 | 104-6 | 104-7 | 104-8 | 104-9 | 104-10 |
| 625.00 | 113-2 | 113-3 | 113-5 | 113-6 | 113-8 | 113-9 | 113-10 | 113-11 | 114-0 | 114-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 1.77 | 1500 | 1.77 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 1.04 | 625 | 1.01 | 646 |
| 30 | 0 | 0 | 0 | 0.52 | 1.19 | 548 | 1.15 | 567 |
| 40 | 0 | 0 | 0 | 0.52 | 1.33 | 490 | 1.28 | 508 |
| 50 | 0 | 0 | 0 | 0.52 | 1.46 | 447 | 1.41 | 462 |
| 60 | 0 | 0 | 0 | 0.52 | 1.58 | 412 | 1.53 | 426 |
| 70 | 0 | 0 | 0 | 0.52 | 1.69 | 384 | 1.64 | 396 |
| 80 | 0 | 0 | 0 | 0.52 | 1.79 | 364 | 1.75 | 372 |
| 90 | 0 | 0 | 0 | 0.52 | 1.86 | 351 | 1.85 | 351 |
| 100 | 0 | 0 | 0 | 0.52 | 1.92 | 339 | 1.92 | 339 |
| 110 | 0 | 0 | 0 | 0.52 | 1.98 | 328 | 1.98 | 328 |
| 120 | 0 | 0 | 0 | 0.52 | 2.05 | 318 | 2.05 | 318 |
| 130 | 0 | 0 | 0 | 0.52 | 2.1 | 309 | 2.1 | 309 |
| 167 | 0 | 0 | 0 | 0.52 | 2.31 | 281 | 2.31 | 281 |
| 212 | 0 | 0 | 0 | 0.52 | 2.55 | 255 | 2.55 | 255 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 7.1 | 1500 | 7.1 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 6.43 | 406 | 6.4 | 408 |
| 30 | 0 | 0 | 0 | 0.52 | 6.56 | 398 | 6.52 | 401 |
| 40 | 0 | 0 | 0 | 0.52 | 6.68 | 391 | 6.63 | 394 |
| 50 | 0 | 0 | 0 | 0.52 | 6.79 | 384 | 6.75 | 387 |
| 60 | 0 | 0 | 0 | 0.52 | 6.91 | 378 | 6.86 | 381 |
| 70 | 0 | 0 | 0 | 0.52 | 7.03 | 372 | 6.97 | 375 |
| 80 | 0 | 0 | 0 | 0.52 | 7.13 | 367 | 7.08 | 369 |
| 90 | 0 | 0 | 0 | 0.52 | 7.2 | 363 | 7.19 | 363 |
| 100 | 0 | 0 | 0 | 0.52 | 7.28 | 359 | 7.28 | 359 |
| 110 | 0 | 0 | 0 | 0.52 | 7.35 | 356 | 7.35 | 356 |
| 120 | 0 | 0 | 0 | 0.52 | 7.42 | 352 | 7.42 | 352 |
| 130 | 0 | 0 | 0 | 0.52 | 7.49 | 349 | 7.49 | 349 |
| 167 | 0 | 0 | 0 | 0.52 | 7.74 | 338 | 7.74 | 338 |
| 212 | 0 | 0 | 0 | 0.52 | 8.05 | 325 | 8.05 | 325 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 16.08 | 1500 | 16.08 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 15.43 | 383 | 15.39 | 384 |
| 30 | 0 | 0 | 0 | 0.52 | 15.54 | 380 | 15.5 | 381 |
| 40 | 0 | 0 | 0 | 0.52 | 15.66 | 378 | 15.62 | 379 |
| 50 | 0 | 0 | 0 | 0.52 | 15.78 | 375 | 15.73 | 376 |
| 60 | 0 | 0 | 0 | 0.52 | 15.89 | 372 | 15.84 | 373 |
| 70 | 0 | 0 | 0 | 0.52 | 16.01 | 370 | 15.95 | 371 |
| 80 | 0 | 0 | 0 | 0.52 | 16.11 | 367 | 16.06 | 368 |
| 90 | 0 | 0 | 0 | 0.52 | 16.18 | 366 | 16.17 | 366 |
| 100 | 0 | 0 | 0 | 0.52 | 16.26 | 364 | 16.26 | 364 |
| 110 | 0 | 0 | 0 | 0.52 | 16.33 | 362 | 16.33 | 362 |
| 120 | 0 | 0 | 0 | 0.52 | 16.41 | 361 | 16.41 | 361 |
| 130 | 0 | 0 | 0 | 0.52 | 16.48 | 359 | 16.48 | 359 |
| 167 | 0 | 0 | 0 | 0.52 | 16.75 | 354 | 16.75 | 354 |
| 212 | 0 | 0 | 0 | 0.52 | 17.07 | 347 | 17.07 | 347 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 28.86 | 1500 | 28.86 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 28.21 | 376 | 28.17 | 377 |
| 30 | 0 | 0 | 0 | 0.52 | 28.32 | 375 | 28.28 | 375 |
| 40 | 0 | 0 | 0 | 0.52 | 28.44 | 373 | 28.39 | 374 |
| 50 | 0 | 0 | 0 | 0.52 | 28.55 | 372 | 28.51 | 372 |
| 60 | 0 | 0 | 0 | 0.52 | 28.67 | 370 | 28.62 | 371 |
| 70 | 0 | 0 | 0 | 0.52 | 28.78 | 369 | 28.73 | 369 |
| 80 | 0 | 0 | 0 | 0.52 | 28.88 | 368 | 28.84 | 368 |
| 90 | 0 | 0 | 0 | 0.52 | 28.96 | 367 | 28.95 | 367 |
| 100 | 0 | 0 | 0 | 0.52 | 29.04 | 366 | 29.04 | 366 |
| 110 | 0 | 0 | 0 | 0.52 | 29.11 | 365 | 29.11 | 365 |
| 120 | 0 | 0 | 0 | 0.52 | 29.19 | 364 | 29.19 | 364 |
| 130 | 0 | 0 | 0 | 0.52 | 29.26 | 363 | 29.26 | 363 |
| 167 | 0 | 0 | 0 | 0.52 | 29.54 | 360 | 29.54 | 360 |
| 212 | 0 | 0 | 0 | 0.52 | 29.87 | 356 | 29.87 | 356 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 45.65 | 1500 | 45.65 | 1500* |
| 20 | 0 | 0 | 0 | 0.52 | 45 | 373 | 44.96 | 373 |
| 30 | 0 | 0 | 0 | 0.52 | 45.11 | 372 | 45.07 | 372 |
| 40 | 0 | 0 | 0 | 0.52 | 45.23 | 371 | 45.18 | 371 |
| 50 | 0 | 0 | 0 | 0.52 | 45.34 | 370 | 45.29 | 371 |
| 60 | 0 | 0 | 0 | 0.52 | 45.45 | 369 | 45.41 | 370 |
| 70 | 0 | 0 | 0 | 0.52 | 45.57 | 368 | 45.52 | 369 |
| 80 | 0 | 0 | 0 | 0.52 | 45.67 | 368 | 45.63 | 368 |
| 90 | 0 | 0 | 0 | 0.52 | 45.75 | 367 | 45.74 | 367 |
| 100 | 0 | 0 | 0 | 0.52 | 45.82 | 367 | 45.82 | 367 |
| 110 | 0 | 0 | 0 | 0.52 | 45.9 | 366 | 45.9 | 366 |
| 120 | 0 | 0 | 0 | 0.52 | 45.98 | 365 | 45.98 | 365 |
| 130 | 0 | 0 | 0 | 0.52 | 46.05 | 365 | 46.05 | 365 |
| 167 | 0 | 0 | 0 | 0.52 | 46.33 | 363 | 46.33 | 363 |
| 212 | 0 | 0 | 0 | 0.52 | 46.66 | 360 | 46.66 | 360 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-1 |
| 100.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-7 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-1 |
| 150.00 | 2-3 | 2-7 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 | 4-6 |
| 175.00 | 3-1 | 3-6 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-1 |
| 200.00 | 4-0 | 4-7 | 5-2 | 5-8 | 6-1 | 6-7 | 7-0 | 7-5 | 7-8 | 7-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-1 |
| 100.00 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 |
| 150.00 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 |
| 175.00 | 3-2 | 3-8 | 4-1 | 4-6 | 4-10 | 5-2 | 5-6 | 5-8 | 5-11 | 6-1 |
| 200.00 | 4-2 | 4-9 | 5-4 | 5-10 | 6-4 | 6-9 | 7-2 | 7-5 | 7-8 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 |
| 150.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 |
| 175.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 |
| 200.00 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 |
| 225.00 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 |
| 250.00 | 10-0 | 10-2 | 10-4 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 |
| 150.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 |
| 175.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 |
| 200.00 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-2 | 7-2 | 7-3 | 7-4 |
| 225.00 | 8-2 | 8-4 | 8-5 | 8-7 | 8-9 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 |
| 250.00 | 10-1 | 10-3 | 10-5 | 10-8 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 |
| 175.00 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 |
| 200.00 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 |
| 225.00 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 |
| 250.00 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 |
| 275.00 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 |
| 300.00 | 15-5 | 15-6 | 15-7 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 | 16-4 |
| 325.00 | 18-1 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-10 | 19-0 | 19-1 | 19-2 |
| 350.00 | 21-0 | 21-2 | 21-3 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 | 22-2 | 22-3 |
| 375.00 | 24-1 | 24-3 | 24-5 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 | 25-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 |
| 175.00 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 | 5-7 |
| 200.00 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 |
| 225.00 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 |
| 250.00 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 |
| 275.00 | 12-11 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 |
| 300.00 | 15-5 | 15-7 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 |
| 325.00 | 18-1 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 |
| 350.00 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 | 21-11 | 22-1 | 22-2 | 22-3 |
| 375.00 | 24-2 | 24-4 | 24-6 | 24-8 | 24-11 | 25-1 | 25-3 | 25-4 | 25-6 | 25-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-0 | 7-0 | 7-1 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 |
| 225.00 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 |
| 250.00 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 |
| 275.00 | 13-3 | 13-4 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 |
| 300.00 | 15-10 | 15-10 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 |
| 325.00 | 18-7 | 18-8 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-1 | 19-2 |
| 350.00 | 21-6 | 21-7 | 21-8 | 21-9 | 21-11 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 |
| 375.00 | 24-9 | 24-10 | 24-11 | 25-0 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 |
| 400.00 | 28-2 | 28-3 | 28-5 | 28-6 | 28-7 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 |
| 425.00 | 31-10 | 31-11 | 32-1 | 32-2 | 32-4 | 32-6 | 32-7 | 32-9 | 32-10 | 32-11 |
| 450.00 | 35-9 | 35-10 | 36-0 | 36-2 | 36-3 | 36-5 | 36-7 | 36-8 | 36-10 | 36-11 |
| 475.00 | 39-10 | 40-0 | 40-2 | 40-4 | 40-6 | 40-7 | 40-9 | 40-11 | 41-1 | 41-2 |
| 500.00 | 44-2 | 44-4 | 44-6 | 44-8 | 44-11 | 45-1 | 45-3 | 45-5 | 45-7 | 45-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-0 | 7-1 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 |
| 225.00 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 |
| 250.00 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 |
| 275.00 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 |
| 300.00 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 | 16-4 |
| 325.00 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 18-11 | 19-0 | 19-1 | 19-1 | 19-2 |
| 350.00 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 |
| 375.00 | 24-9 | 24-10 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 |
| 400.00 | 28-2 | 28-4 | 28-5 | 28-7 | 28-8 | 28-9 | 28-11 | 28-11 | 29-0 | 29-1 |
| 425.00 | 31-10 | 32-0 | 32-2 | 32-3 | 32-5 | 32-6 | 32-8 | 32-9 | 32-10 | 32-11 |
| 450.00 | 35-9 | 35-11 | 36-1 | 36-2 | 36-4 | 36-6 | 36-7 | 36-9 | 36-10 | 36-11 |
| 475.00 | 39-11 | 40-1 | 40-3 | 40-4 | 40-6 | 40-8 | 40-10 | 40-11 | 41-1 | 41-2 |
| 500.00 | 44-3 | 44-5 | 44-7 | 44-9 | 45-0 | 45-2 | 45-4 | 45-5 | 45-7 | 45-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-2 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 |
| 275.00 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 |
| 300.00 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 |
| 325.00 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 |
| 350.00 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 | 22-3 | 22-4 | 22-4 |
| 375.00 | 25-2 | 25-3 | 25-4 | 25-4 | 25-5 | 25-6 | 25-7 | 25-7 | 25-8 | 25-8 |
| 400.00 | 28-8 | 28-9 | 28-10 | 28-11 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 |
| 425.00 | 32-5 | 32-6 | 32-7 | 32-8 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 |
| 450.00 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 | 36-10 | 36-11 | 37-0 | 37-0 | 37-1 |
| 475.00 | 40-6 | 40-8 | 40-9 | 40-10 | 40-11 | 41-0 | 41-2 | 41-3 | 41-4 | 41-5 |
| 500.00 | 45-0 | 45-1 | 45-2 | 45-4 | 45-5 | 45-6 | 45-8 | 45-9 | 45-10 | 45-11 |
| 525.00 | 49-7 | 49-9 | 49-10 | 50-0 | 50-1 | 50-3 | 50-4 | 50-6 | 50-7 | 50-8 |
| 550.00 | 54-6 | 54-8 | 54-10 | 54-11 | 55-1 | 55-2 | 55-4 | 55-6 | 55-7 | 55-8 |
| 575.00 | 59-8 | 59-10 | 60-0 | 60-1 | 60-3 | 60-5 | 60-7 | 60-8 | 60-10 | 60-11 |
| 600.00 | 65-1 | 65-2 | 65-4 | 65-6 | 65-8 | 65-10 | 66-0 | 66-2 | 66-4 | 66-5 |
| 625.00 | 70-8 | 70-10 | 71-0 | 71-2 | 71-5 | 71-7 | 71-9 | 71-11 | 72-1 | 72-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-4 | 11-5 |
| 275.00 | 13-6 | 13-7 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-9 |
| 300.00 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 |
| 325.00 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-2 | 19-2 | 19-2 | 19-3 | 19-3 |
| 350.00 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 | 22-3 | 22-4 | 22-4 |
| 375.00 | 25-2 | 25-3 | 25-4 | 25-5 | 25-5 | 25-6 | 25-7 | 25-7 | 25-8 | 25-8 |
| 400.00 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-1 | 29-2 | 29-3 | 29-3 |
| 425.00 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 32-11 | 33-0 | 33-1 |
| 450.00 | 36-4 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-0 | 37-1 |
| 475.00 | 40-7 | 40-8 | 40-9 | 40-11 | 41-0 | 41-1 | 41-2 | 41-3 | 41-4 | 41-5 |
| 500.00 | 45-0 | 45-1 | 45-3 | 45-4 | 45-5 | 45-7 | 45-8 | 45-9 | 45-10 | 45-11 |
| 525.00 | 49-8 | 49-9 | 49-11 | 50-1 | 50-2 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 |
| 550.00 | 54-7 | 54-8 | 54-10 | 55-0 | 55-1 | 55-3 | 55-5 | 55-6 | 55-7 | 55-8 |
| 575.00 | 59-9 | 59-10 | 60-0 | 60-2 | 60-4 | 60-6 | 60-7 | 60-9 | 60-10 | 60-11 |
| 600.00 | 65-1 | 65-3 | 65-5 | 65-7 | 65-9 | 65-11 | 66-1 | 66-2 | 66-4 | 66-5 |
| 625.00 | 70-9 | 70-11 | 71-1 | 71-3 | 71-5 | 71-8 | 71-10 | 71-11 | 72-1 | 72-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 1.34 | 1976 | 1.33 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 0.42 | 1544 | 0.4 | 1619 |
| 30 | 0 | 0 | 0 | 0.52 | 0.53 | 1230 | 0.48 | 1342 |
| 40 | 0 | 0 | 0 | 0.52 | 0.66 | 978 | 0.59 | 1098 |
| 50 | 0 | 0 | 0 | 0.52 | 0.82 | 795 | 0.72 | 900 |
| 60 | 0 | 0 | 0 | 0.52 | 0.97 | 667 | 0.87 | 751 |
| 70 | 0 | 0 | 0 | 0.52 | 1.13 | 578 | 1.01 | 643 |
| 80 | 0 | 0 | 0 | 0.52 | 1.27 | 513 | 1.15 | 564 |
| 90 | 0 | 0 | 0 | 0.52 | 1.35 | 481 | 1.29 | 505 |
| 100 | 0 | 0 | 0 | 0.52 | 1.43 | 456 | 1.42 | 459 |
| 110 | 0 | 0 | 0 | 0.52 | 1.5 | 432 | 1.5 | 432 |
| 120 | 0 | 0 | 0 | 0.52 | 1.58 | 413 | 1.58 | 413 |
| 130 | 0 | 0 | 0 | 0.52 | 1.65 | 395 | 1.65 | 395 |
| 167 | 0 | 0 | 0 | 0.52 | 1.89 | 344 | 1.89 | 344 |
| 212 | 0 | 0 | 0 | 0.52 | 2.16 | 301 | 2.16 | 301 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 5.32 | 2000 | 5.32 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 4.25 | 613 | 4.17 | 624 |
| 30 | 0 | 0 | 0 | 0.52 | 4.43 | 588 | 4.34 | 600 |
| 40 | 0 | 0 | 0 | 0.52 | 4.6 | 567 | 4.51 | 578 |
| 50 | 0 | 0 | 0 | 0.52 | 4.76 | 547 | 4.67 | 558 |
| 60 | 0 | 0 | 0 | 0.52 | 4.92 | 529 | 4.83 | 540 |
| 70 | 0 | 0 | 0 | 0.52 | 5.08 | 513 | 4.98 | 523 |
| 80 | 0 | 0 | 0 | 0.52 | 5.23 | 499 | 5.13 | 508 |
| 90 | 0 | 0 | 0 | 0.52 | 5.35 | 487 | 5.27 | 494 |
| 100 | 0 | 0 | 0 | 0.52 | 5.44 | 479 | 5.42 | 481 |
| 110 | 0 | 0 | 0 | 0.52 | 5.54 | 471 | 5.54 | 471 |
| 120 | 0 | 0 | 0 | 0.52 | 5.63 | 463 | 5.63 | 463 |
| 130 | 0 | 0 | 0 | 0.52 | 5.72 | 456 | 5.72 | 456 |
| 167 | 0 | 0 | 0 | 0.52 | 6.04 | 432 | 6.04 | 432 |
| 212 | 0 | 0 | 0 | 0.52 | 6.41 | 407 | 6.41 | 407 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 12 | 2000 | 12 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 10.97 | 536 | 10.9 | 540 |
| 30 | 0 | 0 | 0 | 0.52 | 11.14 | 528 | 11.05 | 532 |
| 40 | 0 | 0 | 0 | 0.52 | 11.3 | 521 | 11.21 | 525 |
| 50 | 0 | 0 | 0 | 0.52 | 11.45 | 514 | 11.36 | 518 |
| 60 | 0 | 0 | 0 | 0.52 | 11.61 | 507 | 11.51 | 511 |
| 70 | 0 | 0 | 0 | 0.52 | 11.76 | 500 | 11.66 | 505 |
| 80 | 0 | 0 | 0 | 0.52 | 11.91 | 494 | 11.81 | 498 |
| 90 | 0 | 0 | 0 | 0.52 | 12.04 | 489 | 11.96 | 492 |
| 100 | 0 | 0 | 0 | 0.52 | 12.14 | 485 | 12.11 | 486 |
| 110 | 0 | 0 | 0 | 0.52 | 12.24 | 481 | 12.24 | 481 |
| 120 | 0 | 0 | 0 | 0.52 | 12.33 | 478 | 12.33 | 478 |
| 130 | 0 | 0 | 0 | 0.52 | 12.43 | 474 | 12.43 | 474 |
| 167 | 0 | 0 | 0 | 0.52 | 12.78 | 461 | 12.78 | 461 |
| 212 | 0 | 0 | 0 | 0.52 | 13.19 | 447 | 13.19 | 447 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 21.45 | 2000 | 21.45 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 20.43 | 514 | 20.35 | 516 |
| 30 | 0 | 0 | 0 | 0.52 | 20.59 | 511 | 20.51 | 513 |
| 40 | 0 | 0 | 0 | 0.52 | 20.74 | 507 | 20.66 | 509 |
| 50 | 0 | 0 | 0 | 0.52 | 20.9 | 503 | 20.81 | 505 |
| 60 | 0 | 0 | 0 | 0.52 | 21.05 | 499 | 20.96 | 502 |
| 70 | 0 | 0 | 0 | 0.52 | 21.21 | 496 | 21.11 | 498 |
| 80 | 0 | 0 | 0 | 0.52 | 21.36 | 493 | 21.26 | 495 |
| 90 | 0 | 0 | 0 | 0.52 | 21.48 | 490 | 21.4 | 491 |
| 100 | 0 | 0 | 0 | 0.52 | 21.58 | 487 | 21.55 | 488 |
| 110 | 0 | 0 | 0 | 0.52 | 21.69 | 485 | 21.69 | 485 |
| 120 | 0 | 0 | 0 | 0.52 | 21.78 | 483 | 21.78 | 483 |
| 130 | 0 | 0 | 0 | 0.52 | 21.88 | 481 | 21.88 | 481 |
| 167 | 0 | 0 | 0 | 0.52 | 22.24 | 473 | 22.24 | 473 |
| 212 | 0 | 0 | 0 | 0.52 | 22.67 | 465 | 22.67 | 465 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 33.73 | 2000 | 33.73 | 2000* |
| 20 | 0 | 0 | 0 | 0.52 | 32.72 | 505 | 32.65 | 506 |
| 30 | 0 | 0 | 0 | 0.52 | 32.88 | 503 | 32.8 | 504 |
| 40 | 0 | 0 | 0 | 0.52 | 33.03 | 501 | 32.95 | 502 |
| 50 | 0 | 0 | 0 | 0.52 | 33.19 | 498 | 33.1 | 500 |
| 60 | 0 | 0 | 0 | 0.52 | 33.34 | 496 | 33.24 | 497 |
| 70 | 0 | 0 | 0 | 0.52 | 33.49 | 494 | 33.39 | 495 |
| 80 | 0 | 0 | 0 | 0.52 | 33.64 | 492 | 33.54 | 493 |
| 90 | 0 | 0 | 0 | 0.52 | 33.77 | 490 | 33.69 | 491 |
| 100 | 0 | 0 | 0 | 0.52 | 33.87 | 489 | 33.84 | 489 |
| 110 | 0 | 0 | 0 | 0.52 | 33.97 | 487 | 33.97 | 487 |
| 120 | 0 | 0 | 0 | 0.52 | 34.07 | 486 | 34.07 | 486 |
| 130 | 0 | 0 | 0 | 0.52 | 34.17 | 484 | 34.17 | 484 |
| 167 | 0 | 0 | 0 | 0.52 | 34.54 | 479 | 34.54 | 479 |
| 212 | 0 | 0 | 0 | 0.52 | 34.98 | 474 | 34.98 | 474 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-9 | 0-11 | 1-2 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-4 |
| 150.00 | 0-11 | 1-1 | 1-4 | 1-8 | 1-11 | 2-3 | 2-7 | 2-11 | 3-2 | 3-5 |
| 175.00 | 1-3 | 1-6 | 1-10 | 2-3 | 2-8 | 3-1 | 3-6 | 3-11 | 4-4 | 4-7 |
| 200.00 | 1-7 | 1-11 | 2-4 | 2-11 | 3-6 | 4-1 | 4-7 | 5-2 | 5-8 | 6-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-4 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-1 | 2-3 | 2-4 |
| 150.00 | 0-11 | 1-2 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-1 | 3-3 | 3-5 |
| 175.00 | 1-3 | 1-7 | 2-0 | 2-6 | 3-0 | 3-5 | 3-11 | 4-2 | 4-4 | 4-7 |
| 200.00 | 1-8 | 2-1 | 2-8 | 3-3 | 3-11 | 4-6 | 5-1 | 5-5 | 5-9 | 6-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS



OH811.300

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 |
| 150.00 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 175.00 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 |
| 200.00 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 |
| 225.00 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 |
| 250.00 | 6-6 | 6-9 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 | 8-6 | 8-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 |
| 150.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 175.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 200.00 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 |
| 225.00 | 5-5 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-0 |
| 250.00 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 | 8-6 | 8-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 |
| 175.00 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 |
| 200.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 225.00 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 |
| 250.00 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 |
| 275.00 | 9-2 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 |
| 300.00 | 10-11 | 11-1 | 11-3 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-1 | 12-3 |
| 325.00 | 12-9 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-3 | 14-4 |
| 350.00 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-11 | 16-1 | 16-3 | 16-6 | 16-8 |
| 375.00 | 17-0 | 17-3 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 18-11 | 19-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 |
| 175.00 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 |
| 200.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-5 |
| 225.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 |
| 250.00 | 7-7 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 |
| 275.00 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 |
| 300.00 | 11-0 | 11-2 | 11-4 | 11-5 | 11-7 | 11-9 | 11-11 | 12-0 | 12-2 | 12-3 |
| 325.00 | 12-11 | 13-1 | 13-3 | 13-5 | 13-8 | 13-10 | 14-0 | 14-2 | 14-3 | 14-4 |
| 350.00 | 14-11 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 | 16-3 | 16-5 | 16-6 | 16-8 |
| 375.00 | 17-2 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-10 | 19-0 | 19-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 |
| 225.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 |
| 250.00 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 |
| 275.00 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 |
| 300.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 325.00 | 13-5 | 13-6 | 13-7 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-4 |
| 350.00 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 |
| 375.00 | 17-11 | 18-0 | 18-2 | 18-3 | 18-5 | 18-7 | 18-8 | 18-10 | 18-11 | 19-1 |
| 400.00 | 20-4 | 20-6 | 20-8 | 20-10 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-8 |
| 425.00 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 | 23-10 | 24-0 | 24-2 | 24-4 | 24-6 |
| 450.00 | 25-9 | 26-0 | 26-2 | 26-4 | 26-7 | 26-9 | 26-11 | 27-1 | 27-4 | 27-6 |
| 475.00 | 28-9 | 28-11 | 29-2 | 29-5 | 29-7 | 29-10 | 30-0 | 30-3 | 30-5 | 30-8 |
| 500.00 | 31-10 | 32-1 | 32-4 | 32-7 | 32-10 | 33-1 | 33-3 | 33-6 | 33-9 | 33-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 |
| 225.00 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 |
| 250.00 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 |
| 275.00 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 |
| 300.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 |
| 325.00 | 13-6 | 13-7 | 13-8 | 13-9 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 |
| 350.00 | 15-8 | 15-9 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 |
| 375.00 | 17-11 | 18-1 | 18-3 | 18-4 | 18-6 | 18-8 | 18-9 | 18-10 | 19-0 | 19-1 |
| 400.00 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-2 | 21-4 | 21-6 | 21-7 | 21-8 |
| 425.00 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 | 23-11 | 24-1 | 24-3 | 24-5 | 24-6 |
| 450.00 | 25-11 | 26-1 | 26-3 | 26-6 | 26-8 | 26-10 | 27-1 | 27-3 | 27-4 | 27-6 |
| 475.00 | 28-10 | 29-1 | 29-4 | 29-6 | 29-9 | 29-11 | 30-2 | 30-4 | 30-6 | 30-8 |
| 500.00 | 32-0 | 32-3 | 32-6 | 32-9 | 33-0 | 33-2 | 33-5 | 33-8 | 33-10 | 33-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 |
| 275.00 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 |
| 300.00 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-2 | 12-2 |
| 325.00 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-1 | 14-1 | 14-2 | 14-3 | 14-4 |
| 350.00 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-7 |
| 375.00 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 |
| 400.00 | 20-10 | 20-11 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 |
| 425.00 | 23-7 | 23-8 | 23-9 | 23-10 | 24-0 | 24-1 | 24-2 | 24-4 | 24-5 | 24-6 |
| 450.00 | 26-5 | 26-6 | 26-8 | 26-9 | 26-11 | 27-0 | 27-2 | 27-3 | 27-5 | 27-6 |
| 475.00 | 29-5 | 29-7 | 29-9 | 29-10 | 30-0 | 30-1 | 30-3 | 30-5 | 30-6 | 30-8 |
| 500.00 | 32-8 | 32-10 | 32-11 | 33-1 | 33-3 | 33-5 | 33-6 | 33-8 | 33-10 | 34-0 |
| 525.00 | 36-0 | 36-2 | 36-4 | 36-6 | 36-8 | 36-10 | 37-0 | 37-2 | 37-4 | 37-6 |
| 550.00 | 39-7 | 39-9 | 39-11 | 40-1 | 40-3 | 40-5 | 40-8 | 40-10 | 41-0 | 41-2 |
| 575.00 | 43-3 | 43-5 | 43-8 | 43-10 | 44-1 | 44-3 | 44-5 | 44-8 | 44-10 | 45-0 |
| 600.00 | 47-2 | 47-4 | 47-7 | 47-9 | 48-0 | 48-3 | 48-5 | 48-8 | 48-10 | 49-1 |
| 625.00 | 51-2 | 51-5 | 51-8 | 51-11 | 52-1 | 52-4 | 52-7 | 52-10 | 53-1 | 53-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 |
| 275.00 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 |
| 300.00 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 |
| 325.00 | 13-9 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 |
| 350.00 | 16-0 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 |
| 375.00 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 |
| 400.00 | 20-11 | 21-0 | 21-1 | 21-2 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-8 |
| 425.00 | 23-7 | 23-9 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 |
| 450.00 | 26-6 | 26-7 | 26-9 | 26-10 | 27-0 | 27-1 | 27-3 | 27-4 | 27-5 | 27-6 |
| 475.00 | 29-6 | 29-8 | 29-10 | 29-11 | 30-1 | 30-3 | 30-4 | 30-6 | 30-7 | 30-8 |
| 500.00 | 32-9 | 32-11 | 33-0 | 33-2 | 33-4 | 33-6 | 33-8 | 33-9 | 33-10 | 34-0 |
| 525.00 | 36-1 | 36-3 | 36-5 | 36-7 | 36-9 | 36-11 | 37-1 | 37-3 | 37-4 | 37-6 |
| 550.00 | 39-8 | 39-10 | 40-0 | 40-2 | 40-5 | 40-7 | 40-9 | 40-11 | 41-0 | 41-2 |
| 575.00 | 43-4 | 43-7 | 43-9 | 44-0 | 44-2 | 44-5 | 44-7 | 44-9 | 44-11 | 45-0 |
| 600.00 | 47-3 | 47-6 | 47-8 | 47-11 | 48-2 | 48-4 | 48-7 | 48-9 | 48-11 | 49-1 |
| 625.00 | 51-3 | 51-6 | 51-9 | 52-0 | 52-3 | 52-6 | 52-9 | 52-11 | 53-1 | 53-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 1.12 | 2375 | 1.06 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 0.27 | 2413 | 0.25 | 2578 |
| 30 | 0 | 0 | 0 | 0.52 | 0.32 | 2024 | 0.29 | 2268 |
| 40 | 0 | 0 | 0 | 0.52 | 0.39 | 1656 | 0.33 | 1960 |
| 50 | 0 | 0 | 0 | 0.52 | 0.49 | 1325 | 0.39 | 1659 |
| 60 | 0 | 0 | 0 | 0.52 | 0.62 | 1052 | 0.47 | 1376 |
| 70 | 0 | 0 | 0 | 0.52 | 0.77 | 847 | 0.58 | 1124 |
| 80 | 0 | 0 | 0 | 0.52 | 0.92 | 703 | 0.71 | 919 |
| 90 | 0 | 0 | 0 | 0.52 | 1.02 | 638 | 0.85 | 764 |
| 100 | 0 | 0 | 0 | 0.52 | 1.09 | 595 | 1 | 652 |
| 110 | 0 | 0 | 0 | 0.52 | 1.17 | 557 | 1.14 | 570 |
| 120 | 0 | 0 | 0 | 0.52 | 1.24 | 522 | 1.24 | 522 |
| 130 | 0 | 0 | 0 | 0.52 | 1.32 | 493 | 1.32 | 493 |
| 167 | 0 | 0 | 0 | 0.52 | 1.59 | 409 | 1.59 | 409 |
| 212 | 0 | 0 | 0 | 0.52 | 1.89 | 344 | 1.89 | 344 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 4.25 | 2499 | 4.25 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 2.71 | 962 | 2.57 | 1014 |
| 30 | 0 | 0 | 0 | 0.52 | 2.94 | 885 | 2.79 | 932 |
| 40 | 0 | 0 | 0 | 0.52 | 3.16 | 823 | 3.01 | 865 |
| 50 | 0 | 0 | 0 | 0.52 | 3.38 | 770 | 3.22 | 808 |
| 60 | 0 | 0 | 0 | 0.52 | 3.59 | 726 | 3.42 | 760 |
| 70 | 0 | 0 | 0 | 0.52 | 3.79 | 688 | 3.62 | 719 |
| 80 | 0 | 0 | 0 | 0.52 | 3.98 | 655 | 3.81 | 683 |
| 90 | 0 | 0 | 0 | 0.52 | 4.16 | 626 | 3.99 | 652 |
| 100 | 0 | 0 | 0 | 0.52 | 4.29 | 607 | 4.17 | 624 |
| 110 | 0 | 0 | 0 | 0.52 | 4.4 | 592 | 4.34 | 600 |
| 120 | 0 | 0 | 0 | 0.52 | 4.51 | 578 | 4.51 | 578 |
| 130 | 0 | 0 | 0 | 0.52 | 4.61 | 565 | 4.61 | 565 |
| 167 | 0 | 0 | 0 | 0.52 | 4.98 | 523 | 4.98 | 523 |
| 212 | 0 | 0 | 0 | 0.52 | 5.41 | 482 | 5.41 | 482 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 9.58 | 2500 | 9.58 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 8.09 | 725 | 7.95 | 738 |
| 30 | 0 | 0 | 0 | 0.52 | 8.31 | 706 | 8.16 | 719 |
| 40 | 0 | 0 | 0 | 0.52 | 8.51 | 689 | 8.36 | 702 |
| 50 | 0 | 0 | 0 | 0.52 | 8.72 | 673 | 8.56 | 686 |
| 60 | 0 | 0 | 0 | 0.52 | 8.92 | 658 | 8.75 | 671 |
| 70 | 0 | 0 | 0 | 0.52 | 9.11 | 644 | 8.95 | 656 |
| 80 | 0 | 0 | 0 | 0.52 | 9.3 | 631 | 9.13 | 643 |
| 90 | 0 | 0 | 0 | 0.52 | 9.49 | 619 | 9.32 | 630 |
| 100 | 0 | 0 | 0 | 0.52 | 9.63 | 610 | 9.5 | 618 |
| 110 | 0 | 0 | 0 | 0.52 | 9.74 | 603 | 9.68 | 607 |
| 120 | 0 | 0 | 0 | 0.52 | 9.86 | 596 | 9.86 | 596 |
| 130 | 0 | 0 | 0 | 0.52 | 9.98 | 589 | 9.98 | 589 |
| 167 | 0 | 0 | 0 | 0.52 | 10.4 | 565 | 10.4 | 565 |
| 212 | 0 | 0 | 0 | 0.52 | 10.88 | 540 | 10.88 | 540 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 17.08 | 2500 | 17.08 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 15.63 | 670 | 15.49 | 676 |
| 30 | 0 | 0 | 0 | 0.52 | 15.83 | 661 | 15.68 | 667 |
| 40 | 0 | 0 | 0 | 0.52 | 16.03 | 653 | 15.88 | 659 |
| 50 | 0 | 0 | 0 | 0.52 | 16.23 | 645 | 16.07 | 651 |
| 60 | 0 | 0 | 0 | 0.52 | 16.42 | 638 | 16.26 | 644 |
| 70 | 0 | 0 | 0 | 0.52 | 16.62 | 630 | 16.45 | 637 |
| 80 | 0 | 0 | 0 | 0.52 | 16.81 | 623 | 16.64 | 629 |
| 90 | 0 | 0 | 0 | 0.52 | 17 | 616 | 16.82 | 623 |
| 100 | 0 | 0 | 0 | 0.52 | 17.13 | 611 | 17.01 | 616 |
| 110 | 0 | 0 | 0 | 0.52 | 17.26 | 607 | 17.19 | 610 |
| 120 | 0 | 0 | 0 | 0.52 | 17.38 | 603 | 17.37 | 603 |
| 130 | 0 | 0 | 0 | 0.52 | 17.5 | 599 | 17.5 | 599 |
| 167 | 0 | 0 | 0 | 0.52 | 17.94 | 584 | 17.94 | 584 |
| 212 | 0 | 0 | 0 | 0.52 | 18.46 | 568 | 18.46 | 568 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 26.81 | 2500 | 26.81 | 2500* |
| 20 | 0 | 0 | 0 | 0.52 | 25.36 | 647 | 25.22 | 651 |
| 30 | 0 | 0 | 0 | 0.52 | 25.56 | 642 | 25.42 | 646 |
| 40 | 0 | 0 | 0 | 0.52 | 25.76 | 638 | 25.61 | 641 |
| 50 | 0 | 0 | 0 | 0.52 | 25.95 | 633 | 25.8 | 637 |
| 60 | 0 | 0 | 0 | 0.52 | 26.14 | 628 | 25.98 | 632 |
| 70 | 0 | 0 | 0 | 0.52 | 26.34 | 624 | 26.17 | 628 |
| 80 | 0 | 0 | 0 | 0.52 | 26.53 | 619 | 26.36 | 623 |
| 90 | 0 | 0 | 0 | 0.52 | 26.72 | 615 | 26.54 | 619 |
| 100 | 0 | 0 | 0 | 0.52 | 26.86 | 612 | 26.73 | 615 |
| 110 | 0 | 0 | 0 | 0.52 | 26.98 | 609 | 26.91 | 611 |
| 120 | 0 | 0 | 0 | 0.52 | 27.1 | 607 | 27.09 | 607 |
| 130 | 0 | 0 | 0 | 0.52 | 27.23 | 604 | 27.23 | 604 |
| 167 | 0 | 0 | 0 | 0.52 | 27.68 | 594 | 27.68 | 594 |
| 212 | 0 | 0 | 0 | 0.52 | 28.22 | 583 | 28.22 | 583 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-9 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-3 | 2-7 |
| 175.00 | 0-9 | 0-11 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-7 | 3-1 | 3-6 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-4 | 2-10 | 3-5 | 4-0 | 4-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-9 | 1-0 | 1-2 | 1-5 | 1-7 | 1-8 | 1-10 |
| 150.00 | 0-7 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 | 2-1 | 2-4 | 2-6 | 2-8 |
| 175.00 | 0-10 | 1-0 | 1-2 | 1-6 | 1-11 | 2-4 | 2-10 | 3-1 | 3-4 | 3-7 |
| 200.00 | 1-1 | 1-3 | 1-7 | 2-0 | 2-6 | 3-1 | 3-8 | 4-1 | 4-4 | 4-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 |
| 150.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 |
| 175.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 |
| 200.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 |
| 225.00 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 |
| 250.00 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 |
| 150.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 175.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 |
| 200.00 | 2-8 | 2-11 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-3 | 4-5 |
| 225.00 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 |
| 250.00 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-8 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 |
| 175.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 |
| 200.00 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 225.00 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 |
| 250.00 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 |
| 275.00 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |
| 300.00 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-8 |
| 325.00 | 9-4 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 | 11-4 |
| 350.00 | 10-10 | 11-1 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 |
| 375.00 | 12-5 | 12-9 | 13-1 | 13-5 | 13-8 | 14-0 | 14-3 | 14-7 | 14-10 | 15-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 175.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 200.00 | 3-7 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 |
| 225.00 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 |
| 250.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 |
| 275.00 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-1 | 8-2 |
| 300.00 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-9 |
| 325.00 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-8 | 10-11 | 11-2 | 11-4 | 11-5 |
| 350.00 | 11-0 | 11-4 | 11-7 | 11-10 | 12-2 | 12-5 | 12-8 | 12-11 | 13-1 | 13-3 |
| 375.00 | 12-8 | 13-0 | 13-4 | 13-8 | 13-11 | 14-3 | 14-7 | 14-10 | 15-1 | 15-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 225.00 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 250.00 | 6-1 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 |
| 275.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 |
| 300.00 | 8-8 | 8-10 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 |
| 325.00 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 |
| 350.00 | 11-10 | 12-0 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-2 |
| 375.00 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 |
| 400.00 | 15-6 | 15-8 | 15-11 | 16-1 | 16-3 | 16-5 | 16-8 | 16-10 | 17-0 | 17-2 |
| 425.00 | 17-6 | 17-9 | 17-11 | 18-2 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 | 19-5 |
| 450.00 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-4 | 21-6 | 21-9 |
| 475.00 | 21-10 | 22-2 | 22-5 | 22-8 | 22-11 | 23-3 | 23-6 | 23-9 | 24-0 | 24-3 |
| 500.00 | 24-3 | 24-6 | 24-10 | 25-2 | 25-5 | 25-9 | 26-0 | 26-4 | 26-7 | 26-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 |
| 225.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 |
| 250.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 |
| 275.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 |
| 300.00 | 8-9 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 | 9-8 |
| 325.00 | 10-4 | 10-5 | 10-7 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 |
| 350.00 | 12-0 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 |
| 375.00 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-2 |
| 400.00 | 15-8 | 15-10 | 16-0 | 16-3 | 16-5 | 16-7 | 16-10 | 17-0 | 17-2 | 17-3 |
| 425.00 | 17-8 | 17-11 | 18-1 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 | 19-4 | 19-6 |
| 450.00 | 19-9 | 20-1 | 20-4 | 20-7 | 20-10 | 21-0 | 21-3 | 21-6 | 21-8 | 21-10 |
| 475.00 | 22-1 | 22-4 | 22-7 | 22-11 | 23-2 | 23-5 | 23-9 | 24-0 | 24-2 | 24-4 |
| 500.00 | 24-5 | 24-9 | 25-1 | 25-5 | 25-8 | 26-0 | 26-4 | 26-7 | 26-10 | 27-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 |
| 275.00 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 |
| 300.00 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 |
| 325.00 | 10-8 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 |
| 350.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 |
| 375.00 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 | 14-8 | 14-10 | 14-11 | 15-0 | 15-1 |
| 400.00 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 17-0 | 17-1 | 17-2 |
| 425.00 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-11 | 19-0 | 19-2 | 19-3 | 19-5 |
| 450.00 | 20-5 | 20-7 | 20-9 | 20-11 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 | 21-9 |
| 475.00 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 | 23-11 | 24-1 | 24-3 |
| 500.00 | 25-3 | 25-5 | 25-7 | 25-10 | 26-0 | 26-2 | 26-4 | 26-7 | 26-9 | 26-11 |
| 525.00 | 27-10 | 28-0 | 28-3 | 28-5 | 28-8 | 28-10 | 29-1 | 29-3 | 29-6 | 29-8 |
| 550.00 | 30-7 | 30-9 | 31-0 | 31-3 | 31-6 | 31-8 | 31-11 | 32-2 | 32-4 | 32-7 |
| 575.00 | 33-5 | 33-8 | 33-11 | 34-2 | 34-5 | 34-8 | 34-11 | 35-2 | 35-5 | 35-8 |
| 600.00 | 36-5 | 36-8 | 36-11 | 37-2 | 37-6 | 37-9 | 38-0 | 38-3 | 38-7 | 38-10 |
| 625.00 | 39-6 | 39-9 | 40-1 | 40-5 | 40-8 | 41-0 | 41-3 | 41-7 | 41-10 | 42-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 |
| 275.00 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 |
| 300.00 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 |
| 325.00 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-4 |
| 350.00 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 | 13-2 |
| 375.00 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 | 14-9 | 14-11 | 15-0 | 15-1 | 15-2 |
| 400.00 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-1 | 17-2 | 17-3 |
| 425.00 | 18-4 | 18-5 | 18-7 | 18-9 | 18-10 | 19-0 | 19-2 | 19-3 | 19-5 | 19-6 |
| 450.00 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-7 | 21-9 | 21-10 |
| 475.00 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 | 23-11 | 24-1 | 24-3 | 24-4 |
| 500.00 | 25-4 | 25-7 | 25-9 | 25-11 | 26-2 | 26-4 | 26-6 | 26-9 | 26-10 | 27-0 |
| 525.00 | 28-0 | 28-2 | 28-5 | 28-7 | 28-10 | 29-1 | 29-3 | 29-6 | 29-7 | 29-9 |
| 550.00 | 30-9 | 30-11 | 31-2 | 31-5 | 31-8 | 31-11 | 32-1 | 32-4 | 32-6 | 32-8 |
| 575.00 | 33-7 | 33-10 | 34-1 | 34-4 | 34-7 | 34-10 | 35-1 | 35-5 | 35-7 | 35-9 |
| 600.00 | 36-7 | 36-10 | 37-2 | 37-5 | 37-9 | 38-0 | 38-3 | 38-6 | 38-9 | 38-11 |
| 625.00 | 39-8 | 40-0 | 40-4 | 40-8 | 40-11 | 41-3 | 41-6 | 41-10 | 42-1 | 42-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 0.98 | 2698 | 0.88 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 0.22 | 3002 | 0.2 | 3331 |
| 30 | 0 | 0 | 0 | 0.52 | 0.25 | 2598 | 0.21 | 3026 |
| 40 | 0 | 0 | 0 | 0.52 | 0.3 | 2202 | 0.24 | 2717 |
| 50 | 0 | 0 | 0 | 0.52 | 0.36 | 1822 | 0.27 | 2405 |
| 60 | 0 | 0 | 0 | 0.52 | 0.44 | 1472 | 0.31 | 2092 |
| 70 | 0 | 0 | 0 | 0.52 | 0.56 | 1170 | 0.36 | 1785 |
| 80 | 0 | 0 | 0 | 0.52 | 0.7 | 933 | 0.44 | 1490 |
| 90 | 0 | 0 | 0 | 0.52 | 0.79 | 826 | 0.53 | 1222 |
| 100 | 0 | 0 | 0 | 0.52 | 0.85 | 763 | 0.65 | 996 |
| 110 | 0 | 0 | 0 | 0.52 | 0.92 | 706 | 0.79 | 820 |
| 120 | 0 | 0 | 0 | 0.52 | 0.99 | 655 | 0.94 | 692 |
| 130 | 0 | 0 | 0 | 0.52 | 1.07 | 610 | 1.06 | 615 |
| 167 | 0 | 0 | 0 | 0.52 | 1.34 | 484 | 1.34 | 487 |
| 212 | 0 | 0 | 0 | 0.52 | 1.67 | 390 | 1.66 | 392 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 3.57 | 2974 | 3.54 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 1.62 | 1601 | 1.46 | 1778 |
| 30 | 0 | 0 | 0 | 0.52 | 1.86 | 1396 | 1.66 | 1571 |
| 40 | 0 | 0 | 0 | 0.52 | 2.11 | 1232 | 1.87 | 1392 |
| 50 | 0 | 0 | 0 | 0.52 | 2.36 | 1102 | 2.09 | 1243 |
| 60 | 0 | 0 | 0 | 0.52 | 2.61 | 999 | 2.32 | 1120 |
| 70 | 0 | 0 | 0 | 0.52 | 2.84 | 915 | 2.55 | 1020 |
| 80 | 0 | 0 | 0 | 0.52 | 3.07 | 847 | 2.78 | 937 |
| 90 | 0 | 0 | 0 | 0.52 | 3.29 | 791 | 3 | 869 |
| 100 | 0 | 0 | 0 | 0.52 | 3.47 | 751 | 3.21 | 811 |
| 110 | 0 | 0 | 0 | 0.52 | 3.59 | 726 | 3.41 | 762 |
| 120 | 0 | 0 | 0 | 0.52 | 3.7 | 703 | 3.61 | 721 |
| 130 | 0 | 0 | 0 | 0.52 | 3.82 | 682 | 3.8 | 684 |
| 167 | 0 | 0 | 0 | 0.52 | 4.23 | 616 | 4.23 | 616 |
| 212 | 0 | 0 | 0 | 0.52 | 4.7 | 554 | 4.7 | 554 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 7.97 | 3000 | 7.97 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 5.94 | 986 | 5.7 | 1027 |
| 30 | 0 | 0 | 0 | 0.52 | 6.21 | 944 | 5.97 | 982 |
| 40 | 0 | 0 | 0 | 0.52 | 6.47 | 906 | 6.22 | 942 |
| 50 | 0 | 0 | 0 | 0.52 | 6.72 | 872 | 6.47 | 906 |
| 60 | 0 | 0 | 0 | 0.52 | 6.97 | 841 | 6.71 | 873 |
| 70 | 0 | 0 | 0 | 0.52 | 7.21 | 813 | 6.95 | 844 |
| 80 | 0 | 0 | 0 | 0.52 | 7.44 | 788 | 7.18 | 817 |
| 90 | 0 | 0 | 0 | 0.52 | 7.67 | 765 | 7.41 | 792 |
| 100 | 0 | 0 | 0 | 0.52 | 7.89 | 743 | 7.63 | 769 |
| 110 | 0 | 0 | 0 | 0.52 | 8.02 | 731 | 7.84 | 748 |
| 120 | 0 | 0 | 0 | 0.52 | 8.16 | 719 | 8.05 | 729 |
| 130 | 0 | 0 | 0 | 0.52 | 8.29 | 708 | 8.26 | 710 |
| 167 | 0 | 0 | 0 | 0.52 | 8.77 | 669 | 8.77 | 669 |
| 212 | 0 | 0 | 0 | 0.52 | 9.32 | 630 | 9.32 | 630 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 14.21 | 3000 | 14.21 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 12.22 | 854 | 11.99 | 871 |
| 30 | 0 | 0 | 0 | 0.52 | 12.47 | 837 | 12.23 | 853 |
| 40 | 0 | 0 | 0 | 0.52 | 12.72 | 821 | 12.48 | 837 |
| 50 | 0 | 0 | 0 | 0.52 | 12.96 | 806 | 12.71 | 821 |
| 60 | 0 | 0 | 0 | 0.52 | 13.2 | 791 | 12.95 | 807 |
| 70 | 0 | 0 | 0 | 0.52 | 13.44 | 777 | 13.18 | 793 |
| 80 | 0 | 0 | 0 | 0.52 | 13.67 | 764 | 13.41 | 779 |
| 90 | 0 | 0 | 0 | 0.52 | 13.9 | 752 | 13.63 | 766 |
| 100 | 0 | 0 | 0 | 0.52 | 14.12 | 740 | 13.85 | 754 |
| 110 | 0 | 0 | 0 | 0.52 | 14.26 | 733 | 14.07 | 743 |
| 120 | 0 | 0 | 0 | 0.52 | 14.4 | 726 | 14.29 | 732 |
| 130 | 0 | 0 | 0 | 0.52 | 14.54 | 719 | 14.5 | 721 |
| 167 | 0 | 0 | 0 | 0.52 | 15.05 | 695 | 15.05 | 695 |
| 212 | 0 | 0 | 0 | 0.52 | 15.65 | 668 | 15.65 | 668 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.12 | 22.26 | 3000 | 22.26 | 3000* |
| 20 | 0 | 0 | 0 | 0.52 | 20.3 | 806 | 20.07 | 815 |
| 30 | 0 | 0 | 0 | 0.52 | 20.55 | 796 | 20.31 | 805 |
| 40 | 0 | 0 | 0 | 0.52 | 20.79 | 787 | 20.54 | 796 |
| 50 | 0 | 0 | 0 | 0.52 | 21.02 | 778 | 20.78 | 788 |
| 60 | 0 | 0 | 0 | 0.52 | 21.26 | 770 | 21.01 | 779 |
| 70 | 0 | 0 | 0 | 0.52 | 21.49 | 762 | 21.23 | 771 |
| 80 | 0 | 0 | 0 | 0.52 | 21.72 | 754 | 21.46 | 763 |
| 90 | 0 | 0 | 0 | 0.52 | 21.95 | 746 | 21.68 | 755 |
| 100 | 0 | 0 | 0 | 0.52 | 22.17 | 739 | 21.9 | 748 |
| 110 | 0 | 0 | 0 | 0.52 | 22.32 | 734 | 22.12 | 740 |
| 120 | 0 | 0 | 0 | 0.52 | 22.46 | 729 | 22.34 | 733 |
| 130 | 0 | 0 | 0 | 0.52 | 22.61 | 725 | 22.56 | 726 |
| 167 | 0 | 0 | 0 | 0.52 | 23.14 | 708 | 23.14 | 708 |
| 212 | 0 | 0 | 0 | 0.52 | 23.76 | 690 | 23.76 | 690 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-9 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-5 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-9 | 2-2 | 2-7 | 3-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-1 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 1-9 | 1-11 | 2-1 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-2 | 2-5 | 2-7 | 2-10 |
| 200.00 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-3 | 2-9 | 3-2 | 3-5 | 3-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 175.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-5 | 2-7 |
| 200.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-5 |
| 225.00 | 1-10 | 2-1 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 |
| 250.00 | 2-3 | 2-7 | 2-11 | 3-3 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 |
| 200.00 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-7 |
| 225.00 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-6 |
| 250.00 | 2-6 | 2-11 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-5 | 5-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 |
| 225.00 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 |
| 250.00 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 |
| 275.00 | 4-10 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 |
| 300.00 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 |
| 325.00 | 6-8 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 |
| 350.00 | 7-9 | 8-1 | 8-6 | 8-10 | 9-2 | 9-6 | 9-9 | 10-1 | 10-5 | 10-8 |
| 375.00 | 8-11 | 9-4 | 9-9 | 10-1 | 10-6 | 10-10 | 11-3 | 11-7 | 11-11 | 12-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 |
| 175.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 200.00 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 |
| 225.00 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 |
| 250.00 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 |
| 275.00 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-8 | 6-9 |
| 300.00 | 5-11 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-5 | 7-8 | 7-11 | 8-0 |
| 325.00 | 7-0 | 7-3 | 7-7 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-5 |
| 350.00 | 8-1 | 8-5 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 | 10-5 | 10-9 | 10-11 |
| 375.00 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 | 11-3 | 11-8 | 12-0 | 12-4 | 12-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 |
| 225.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 |
| 250.00 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 275.00 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 |
| 300.00 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 |
| 325.00 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 |
| 350.00 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 |
| 375.00 | 10-6 | 10-9 | 11-0 | 11-2 | 11-5 | 11-7 | 11-9 | 12-0 | 12-2 | 12-4 |
| 400.00 | 12-0 | 12-3 | 12-6 | 12-9 | 12-11 | 13-2 | 13-5 | 13-8 | 13-10 | 14-1 |
| 425.00 | 13-6 | 13-10 | 14-1 | 14-4 | 14-7 | 14-11 | 15-2 | 15-5 | 15-8 | 15-11 |
| 450.00 | 15-2 | 15-6 | 15-10 | 16-1 | 16-5 | 16-8 | 17-0 | 17-3 | 17-6 | 17-10 |
| 475.00 | 16-11 | 17-3 | 17-7 | 17-11 | 18-3 | 18-7 | 18-11 | 19-3 | 19-7 | 19-10 |
| 500.00 | 18-9 | 19-2 | 19-6 | 19-11 | 20-3 | 20-7 | 21-0 | 21-4 | 21-8 | 22-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 |
| 225.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 |
| 250.00 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 275.00 | 5-9 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 |
| 300.00 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 |
| 325.00 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-4 | 9-5 |
| 350.00 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-6 | 10-8 | 10-10 | 10-11 |
| 375.00 | 10-9 | 11-0 | 11-2 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-6 |
| 400.00 | 12-3 | 12-6 | 12-9 | 13-0 | 13-2 | 13-5 | 13-8 | 13-11 | 14-1 | 14-3 |
| 425.00 | 13-10 | 14-1 | 14-4 | 14-8 | 14-11 | 15-2 | 15-5 | 15-8 | 15-11 | 16-1 |
| 450.00 | 15-6 | 15-10 | 16-1 | 16-5 | 16-9 | 17-0 | 17-4 | 17-7 | 17-11 | 18-1 |
| 475.00 | 17-3 | 17-7 | 17-11 | 18-4 | 18-8 | 19-0 | 19-3 | 19-7 | 19-11 | 20-1 |
| 500.00 | 19-1 | 19-6 | 19-11 | 20-3 | 20-8 | 21-0 | 21-5 | 21-9 | 22-1 | 22-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 |
| 275.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 |
| 300.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 |
| 325.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 |
| 350.00 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 | 10-9 | 10-10 |
| 375.00 | 11-3 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 |
| 400.00 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-2 |
| 425.00 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 |
| 450.00 | 16-3 | 16-5 | 16-8 | 16-10 | 17-0 | 17-2 | 17-4 | 17-7 | 17-9 | 17-11 |
| 475.00 | 18-1 | 18-4 | 18-6 | 18-9 | 18-11 | 19-2 | 19-4 | 19-7 | 19-9 | 20-0 |
| 500.00 | 20-1 | 20-4 | 20-7 | 20-9 | 21-0 | 21-3 | 21-6 | 21-8 | 21-11 | 22-1 |
| 525.00 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-5 |
| 550.00 | 24-4 | 24-7 | 24-10 | 25-2 | 25-5 | 25-8 | 26-0 | 26-3 | 26-6 | 26-9 |
| 575.00 | 26-7 | 26-11 | 27-2 | 27-6 | 27-10 | 28-1 | 28-5 | 28-8 | 29-0 | 29-3 |
| 600.00 | 28-11 | 29-3 | 29-7 | 29-11 | 30-3 | 30-7 | 30-11 | 31-3 | 31-7 | 31-11 |
| 625.00 | 31-5 | 31-9 | 32-2 | 32-6 | 32-10 | 33-3 | 33-7 | 33-11 | 34-3 | 34-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 |
| 275.00 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 |
| 300.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-0 |
| 325.00 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 |
| 350.00 | 9-11 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 | 10-11 |
| 375.00 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 |
| 400.00 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 |
| 425.00 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-1 |
| 450.00 | 16-5 | 16-8 | 16-10 | 17-0 | 17-3 | 17-5 | 17-7 | 17-9 | 17-11 | 18-1 |
| 475.00 | 18-4 | 18-6 | 18-9 | 19-0 | 19-2 | 19-5 | 19-7 | 19-10 | 20-0 | 20-2 |
| 500.00 | 20-4 | 20-7 | 20-9 | 21-0 | 21-3 | 21-6 | 21-9 | 21-11 | 22-2 | 22-4 |
| 525.00 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-5 | 24-7 |
| 550.00 | 24-7 | 24-10 | 25-2 | 25-5 | 25-9 | 26-0 | 26-4 | 26-7 | 26-10 | 27-0 |
| 575.00 | 26-10 | 27-2 | 27-6 | 27-10 | 28-2 | 28-5 | 28-9 | 29-1 | 29-4 | 29-6 |
| 600.00 | 29-3 | 29-7 | 30-0 | 30-4 | 30-8 | 31-0 | 31-4 | 31-8 | 32-0 | 32-2 |
| 625.00 | 31-9 | 32-2 | 32-6 | 32-11 | 33-3 | 33-8 | 34-0 | 34-4 | 34-8 | 34-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 2.66 | 1000 | 2.66 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 2.33 | 279 | 2.3 | 283 |
| 30 | 0 | 0 | 0 | 0.52 | 2.6 | 251 | 2.58 | 253 |
| 40 | 0 | 0 | 0 | 0.52 | 2.67 | 244 | 2.65 | 246 |
| 50 | 0 | 0 | 0 | 0.52 | 2.75 | 237 | 2.72 | 240 |
| 60 | 0 | 0 | 0 | 0.52 | 2.82 | 231 | 2.79 | 234 |
| 70 | 0 | 0 | 0 | 0.52 | 2.87 | 227 | 2.86 | 228 |
| 80 | 0 | 0 | 0 | 0.52 | 2.92 | 223 | 2.92 | 223 |
| 90 | 0 | 0 | 0 | 0.52 | 2.96 | 220 | 2.96 | 220 |
| 100 | 0 | 0 | 0 | 0.52 | 3.01 | 217 | 3.01 | 217 |
| 110 | 0 | 0 | 0 | 0.52 | 3.05 | 214 | 3.05 | 214 |
| 120 | 0 | 0 | 0 | 0.52 | 3.09 | 211 | 3.09 | 211 |
| 130 | 0 | 0 | 0 | 0.52 | 3.14 | 208 | 3.14 | 208 |
| 167 | 0 | 0 | 0 | 0.52 | 3.29 | 199 | 3.29 | 199 |
| 212 | 0 | 0 | 0 | 0.52 | 3.47 | 188 | 3.47 | 188 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 10.72 | 1000 | 10.72 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 10.41 | 253 | 10.37 | 253 |
| 30 | 0 | 0 | 0 | 0.52 | 10.66 | 247 | 10.64 | 247 |
| 40 | 0 | 0 | 0 | 0.52 | 10.74 | 245 | 10.71 | 245 |
| 50 | 0 | 0 | 0 | 0.52 | 10.81 | 243 | 10.79 | 244 |
| 60 | 0 | 0 | 0 | 0.52 | 10.89 | 242 | 10.86 | 242 |
| 70 | 0 | 0 | 0 | 0.52 | 10.95 | 240 | 10.93 | 241 |
| 80 | 0 | 0 | 0 | 0.52 | 11 | 239 | 11 | 239 |
| 90 | 0 | 0 | 0 | 0.52 | 11.05 | 238 | 11.05 | 238 |
| 100 | 0 | 0 | 0 | 0.52 | 11.1 | 237 | 11.1 | 237 |
| 110 | 0 | 0 | 0 | 0.52 | 11.15 | 236 | 11.15 | 236 |
| 120 | 0 | 0 | 0 | 0.52 | 11.2 | 235 | 11.2 | 235 |
| 130 | 0 | 0 | 0 | 0.52 | 11.24 | 234 | 11.24 | 234 |
| 167 | 0 | 0 | 0 | 0.52 | 11.42 | 231 | 11.42 | 231 |
| 212 | 0 | 0 | 0 | 0.52 | 11.63 | 227 | 11.63 | 227 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 24.49 | 1000 | 24.49 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 24.17 | 248 | 24.14 | 249 |
| 30 | 0 | 0 | 0 | 0.52 | 24.43 | 246 | 24.41 | 246 |
| 40 | 0 | 0 | 0 | 0.52 | 24.5 | 245 | 24.48 | 245 |
| 50 | 0 | 0 | 0 | 0.52 | 24.58 | 244 | 24.55 | 245 |
| 60 | 0 | 0 | 0 | 0.52 | 24.66 | 244 | 24.63 | 244 |
| 70 | 0 | 0 | 0 | 0.52 | 24.72 | 243 | 24.7 | 243 |
| 80 | 0 | 0 | 0 | 0.52 | 24.77 | 243 | 24.77 | 243 |
| 90 | 0 | 0 | 0 | 0.52 | 24.82 | 242 | 24.82 | 242 |
| 100 | 0 | 0 | 0 | 0.52 | 24.87 | 242 | 24.87 | 242 |
| 110 | 0 | 0 | 0 | 0.52 | 24.92 | 241 | 24.92 | 241 |
| 120 | 0 | 0 | 0 | 0.52 | 24.97 | 241 | 24.97 | 241 |
| 130 | 0 | 0 | 0 | 0.52 | 25.02 | 240 | 25.02 | 240 |
| 167 | 0 | 0 | 0 | 0.52 | 25.2 | 239 | 25.2 | 239 |
| 212 | 0 | 0 | 0 | 0.52 | 25.42 | 237 | 25.42 | 237 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 44.51 | 1000 | 44.51 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 44.2 | 247 | 44.16 | 247 |
| 30 | 0 | 0 | 0 | 0.52 | 44.45 | 246 | 44.43 | 246 |
| 40 | 0 | 0 | 0 | 0.52 | 44.53 | 245 | 44.5 | 245 |
| 50 | 0 | 0 | 0 | 0.52 | 44.6 | 245 | 44.58 | 245 |
| 60 | 0 | 0 | 0 | 0.52 | 44.68 | 244 | 44.65 | 245 |
| 70 | 0 | 0 | 0 | 0.52 | 44.74 | 244 | 44.72 | 244 |
| 80 | 0 | 0 | 0 | 0.52 | 44.79 | 244 | 44.79 | 244 |
| 90 | 0 | 0 | 0 | 0.52 | 44.84 | 244 | 44.84 | 244 |
| 100 | 0 | 0 | 0 | 0.52 | 44.89 | 243 | 44.89 | 243 |
| 110 | 0 | 0 | 0 | 0.52 | 44.94 | 243 | 44.94 | 243 |
| 120 | 0 | 0 | 0 | 0.52 | 44.99 | 243 | 44.99 | 243 |
| 130 | 0 | 0 | 0 | 0.52 | 45.04 | 243 | 45.04 | 243 |
| 167 | 0 | 0 | 0 | 0.52 | 45.23 | 242 | 45.23 | 242 |
| 212 | 0 | 0 | 0 | 0.52 | 45.45 | 241 | 45.45 | 241 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 71.75 | 1000 | 71.75 | 1000* |
| 0 | 0 | 0 | 0 | 0.52 | 71.43 | 246 | 71.4 | 246 |
| 30 | 0 | 0 | 0 | 0.52 | 71.69 | 245 | 71.66 | 246 |
| 40 | 0 | 0 | 0 | 0.52 | 71.76 | 245 | 71.74 | 245 |
| 50 | 0 | 0 | 0 | 0.52 | 71.84 | 245 | 71.81 | 245 |
| 60 | 0 | 0 | 0 | 0.52 | 71.91 | 245 | 71.88 | 245 |
| 70 | 0 | 0 | 0 | 0.52 | 71.98 | 245 | 71.96 | 245 |
| 80 | 0 | 0 | 0 | 0.52 | 72.03 | 244 | 72.03 | 244 |
| 90 | 0 | 0 | 0 | 0.52 | 72.08 | 244 | 72.08 | 244 |
| 100 | 0 | 0 | 0 | 0.52 | 72.13 | 244 | 72.13 | 244 |
| 110 | 0 | 0 | 0 | 0.52 | 72.18 | 244 | 72.18 | 244 |
| 120 | 0 | 0 | 0 | 0.52 | 72.23 | 244 | 72.23 | 244 |
| 130 | 0 | 0 | 0 | 0.52 | 72.28 | 244 | 72.28 | 244 |
| 167 | 0 | 0 | 0 | 0.52 | 72.46 | 243 | 72.46 | 243 |
| 212 | 0 | 0 | 0 | 0.52 | 72.69 | 243 | 72.69 | 243 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 |
| 100.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 |
| 125.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 |
| 150.00 | 5-7 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-9 | 6-11 |
| 175.00 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 9-0 | 9-1 | 9-3 | 9-4 |
| 200.00 | 10-0 | 10-4 | 10-8 | 10-11 | 11-2 | 11-6 | 11-9 | 11-11 | 12-1 | 12-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 |
| 100.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 |
| 125.00 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 |
| 150.00 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 | 6-11 |
| 175.00 | 7-9 | 8-0 | 8-2 | 8-5 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 |
| 200.00 | 10-1 | 10-5 | 10-9 | 11-0 | 11-4 | 11-6 | 11-9 | 11-11 | 12-1 | 12-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-8 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-9 |
| 125.00 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 150.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 |
| 175.00 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 |
| 200.00 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 |
| 225.00 | 13-4 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-1 |
| 250.00 | 16-6 | 16-8 | 16-9 | 16-11 | 17-0 | 17-1 | 17-3 | 17-4 | 17-5 | 17-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-9 | 2-9 |
| 125.00 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 150.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 |
| 175.00 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 |
| 200.00 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 |
| 225.00 | 13-5 | 13-6 | 13-7 | 13-8 | 13-10 | 13-10 | 13-11 | 14-0 | 14-1 | 14-1 |
| 250.00 | 16-7 | 16-8 | 16-10 | 16-11 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-0 | 6-1 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-2 |
| 175.00 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-5 |
| 200.00 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 |
| 225.00 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 14-0 |
| 250.00 | 16-10 | 16-11 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 |
| 275.00 | 20-5 | 20-6 | 20-7 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 |
| 300.00 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 | 24-8 | 24-9 | 24-10 | 24-10 | 24-11 |
| 325.00 | 28-7 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 |
| 350.00 | 33-2 | 33-4 | 33-5 | 33-6 | 33-8 | 33-9 | 33-10 | 33-11 | 34-0 | 34-0 |
| 375.00 | 38-2 | 38-4 | 38-5 | 38-7 | 38-8 | 38-9 | 38-11 | 39-0 | 39-1 | 39-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-2 |
| 175.00 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-5 |
| 200.00 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 |
| 225.00 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 14-0 |
| 250.00 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 |
| 275.00 | 20-5 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 |
| 300.00 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-9 | 24-10 | 24-10 | 24-11 |
| 325.00 | 28-7 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-1 | 29-2 | 29-3 | 29-4 |
| 350.00 | 33-3 | 33-4 | 33-6 | 33-7 | 33-8 | 33-9 | 33-10 | 33-11 | 34-0 | 34-0 |
| 375.00 | 38-3 | 38-4 | 38-6 | 38-7 | 38-9 | 38-10 | 38-11 | 39-0 | 39-1 | 39-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-11 | 11-0 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 | 11-1 |
| 225.00 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 |
| 250.00 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-4 | 17-5 |
| 275.00 | 20-9 | 20-10 | 20-10 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-0 | 21-1 |
| 300.00 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 | 25-0 | 25-0 | 25-1 | 25-1 | 25-1 |
| 325.00 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 | 29-4 | 29-5 | 29-5 | 29-6 | 29-6 |
| 350.00 | 33-10 | 33-11 | 33-11 | 34-0 | 34-1 | 34-1 | 34-2 | 34-2 | 34-3 | 34-3 |
| 375.00 | 38-11 | 39-0 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 | 39-4 | 39-5 | 39-5 |
| 400.00 | 44-4 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-10 | 44-11 | 44-11 |
| 425.00 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 | 50-9 | 50-10 |
| 450.00 | 56-4 | 56-6 | 56-7 | 56-8 | 56-9 | 56-10 | 56-11 | 57-0 | 57-1 | 57-2 |
| 475.00 | 62-11 | 63-1 | 63-2 | 63-3 | 63-5 | 63-6 | 63-7 | 63-8 | 63-9 | 63-10 |
| 500.00 | 69-11 | 70-1 | 70-2 | 70-3 | 70-5 | 70-6 | 70-8 | 70-8 | 70-9 | 70-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-0 | 11-0 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 | 11-1 |
| 225.00 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 |
| 250.00 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-4 | 17-5 |
| 275.00 | 20-10 | 20-10 | 20-10 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-0 | 21-1 |
| 300.00 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 | 25-0 | 25-0 | 25-1 | 25-1 | 25-1 |
| 325.00 | 29-2 | 29-2 | 29-3 | 29-3 | 29-4 | 29-5 | 29-5 | 29-5 | 29-6 | 29-6 |
| 350.00 | 33-10 | 33-11 | 34-0 | 34-0 | 34-1 | 34-2 | 34-2 | 34-2 | 34-3 | 34-3 |
| 375.00 | 38-11 | 39-0 | 39-1 | 39-2 | 39-2 | 39-3 | 39-4 | 39-4 | 39-5 | 39-5 |
| 400.00 | 44-5 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-10 | 44-11 | 44-11 |
| 425.00 | 50-2 | 50-3 | 50-4 | 50-5 | 50-7 | 50-7 | 50-8 | 50-9 | 50-9 | 50-10 |
| 450.00 | 56-5 | 56-6 | 56-7 | 56-8 | 56-9 | 56-10 | 56-11 | 57-0 | 57-1 | 57-2 |
| 475.00 | 63-0 | 63-1 | 63-2 | 63-4 | 63-5 | 63-6 | 63-7 | 63-8 | 63-9 | 63-10 |
| 500.00 | 69-11 | 70-1 | 70-2 | 70-4 | 70-5 | 70-7 | 70-8 | 70-8 | 70-9 | 70-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 |
| 275.00 | 21-3 | 21-3 | 21-4 | 21-4 | 21-4 | 21-4 | 21-5 | 21-5 | 21-5 | 21-5 |
| 300.00 | 25-4 | 25-4 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 | 25-6 | 25-6 | 25-7 |
| 325.00 | 29-10 | 29-10 | 29-10 | 29-11 | 29-11 | 29-11 | 30-0 | 30-0 | 30-0 | 30-0 |
| 350.00 | 34-7 | 34-8 | 34-8 | 34-9 | 34-9 | 34-10 | 34-10 | 34-10 | 34-10 | 34-11 |
| 375.00 | 39-10 | 39-10 | 39-11 | 39-11 | 40-0 | 40-0 | 40-1 | 40-1 | 40-1 | 40-2 |
| 400.00 | 45-5 | 45-5 | 45-6 | 45-6 | 45-7 | 45-7 | 45-8 | 45-8 | 45-9 | 45-9 |
| 425.00 | 51-4 | 51-5 | 51-6 | 51-6 | 51-7 | 51-7 | 51-8 | 51-8 | 51-9 | 51-9 |
| 450.00 | 57-8 | 57-9 | 57-10 | 57-11 | 57-11 | 58-0 | 58-1 | 58-1 | 58-2 | 58-2 |
| 475.00 | 64-5 | 64-6 | 64-7 | 64-8 | 64-9 | 64-9 | 64-10 | 64-11 | 64-11 | 65-0 |
| 500.00 | 71-7 | 71-8 | 71-9 | 71-10 | 71-11 | 71-11 | 72-0 | 72-1 | 72-2 | 72-2 |
| 525.00 | 79-2 | 79-3 | 79-4 | 79-5 | 79-6 | 79-7 | 79-7 | 79-8 | 79-9 | 79-9 |
| 550.00 | 87-1 | 87-2 | 87-3 | 87-4 | 87-5 | 87-7 | 87-8 | 87-8 | 87-9 | 87-10 |
| 575.00 | 95-5 | 95-7 | 95-8 | 95-9 | 95-10 | 96-0 | 96-1 | 96-2 | 96-2 | 96-3 |
| 600.00 | 104-3 | 104-5 | 104-6 | 104-7 | 104-8 | 104-10 | 104-11 | 105-0 | 105-1 | 105-2 |
| 625.00 | 113-6 | 113-7 | 113-9 | 113-10 | 114-0 | 114-1 | 114-2 | 114-3 | 114-4 | 114-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-7 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 |
| 275.00 | 21-3 | 21-4 | 21-4 | 21-4 | 21-4 | 21-5 | 21-5 | 21-5 | 21-5 | 21-5 |
| 300.00 | 25-4 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 | 25-6 | 25-6 | 25-6 | 25-7 |
| 325.00 | 29-10 | 29-10 | 29-10 | 29-11 | 29-11 | 29-11 | 30-0 | 30-0 | 30-0 | 30-0 |
| 350.00 | 34-8 | 34-8 | 34-8 | 34-9 | 34-9 | 34-10 | 34-10 | 34-10 | 34-10 | 34-11 |
| 375.00 | 39-10 | 39-10 | 39-11 | 39-11 | 40-0 | 40-0 | 40-1 | 40-1 | 40-1 | 40-2 |
| 400.00 | 45-5 | 45-5 | 45-6 | 45-7 | 45-7 | 45-8 | 45-8 | 45-8 | 45-9 | 45-9 |
| 425.00 | 51-4 | 51-5 | 51-6 | 51-6 | 51-7 | 51-8 | 51-8 | 51-8 | 51-9 | 51-9 |
| 450.00 | 57-9 | 57-9 | 57-10 | 57-11 | 58-0 | 58-0 | 58-1 | 58-1 | 58-2 | 58-2 |
| 475.00 | 64-6 | 64-6 | 64-7 | 64-8 | 64-9 | 64-10 | 64-10 | 64-11 | 64-11 | 65-0 |
| 500.00 | 71-7 | 71-8 | 71-9 | 71-10 | 71-11 | 72-0 | 72-0 | 72-1 | 72-2 | 72-2 |
| 525.00 | 79-2 | 79-3 | 79-4 | 79-5 | 79-6 | 79-7 | 79-7 | 79-8 | 79-9 | 79-9 |
| 550.00 | 87-1 | 87-3 | 87-4 | 87-5 | 87-6 | 87-7 | 87-8 | 87-8 | 87-9 | 87-10 |
| 575.00 | 95-6 | 95-7 | 95-8 | 95-10 | 95-11 | 96-0 | 96-1 | 96-2 | 96-2 | 96-3 |
| 600.00 | 104-4 | 104-5 | 104-6 | 104-8 | 104-9 | 104-10 | 104-11 | 105-0 | 105-1 | 105-2 |
| 625.00 | 113-6 | 113-8 | 113-9 | 113-11 | 114-0 | 114-1 | 114-2 | 114-3 | 114-4 | 114-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 1.77 | 1500 | 1.77 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 1.19 | 548 | 1.14 | 568 |
| 30 | 0 | 0 | 0 | 0.52 | 1.58 | 412 | 1.53 | 426 |
| 40 | 0 | 0 | 0 | 0.52 | 1.69 | 384 | 1.64 | 397 |
| 50 | 0 | 0 | 0 | 0.52 | 1.8 | 361 | 1.75 | 372 |
| 60 | 0 | 0 | 0 | 0.52 | 1.91 | 341 | 1.85 | 352 |
| 70 | 0 | 0 | 0 | 0.52 | 2 | 325 | 1.95 | 334 |
| 80 | 0 | 0 | 0 | 0.52 | 2.06 | 316 | 2.04 | 319 |
| 90 | 0 | 0 | 0 | 0.52 | 2.12 | 307 | 2.12 | 307 |
| 100 | 0 | 0 | 0 | 0.52 | 2.18 | 299 | 2.18 | 299 |
| 110 | 0 | 0 | 0 | 0.52 | 2.24 | 291 | 2.24 | 291 |
| 120 | 0 | 0 | 0 | 0.52 | 2.29 | 284 | 2.29 | 284 |
| 130 | 0 | 0 | 0 | 0.52 | 2.35 | 277 | 2.35 | 277 |
| 167 | 0 | 0 | 0 | 0.52 | 2.54 | 256 | 2.54 | 256 |
| 212 | 0 | 0 | 0 | 0.52 | 2.76 | 236 | 2.76 | 236 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 7.1 | 1500 | 7.1 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 6.56 | 398 | 6.48 | 403 |
| 30 | 0 | 0 | 0 | 0.52 | 6.91 | 378 | 6.86 | 381 |
| 40 | 0 | 0 | 0 | 0.52 | 7.03 | 372 | 6.97 | 375 |
| 50 | 0 | 0 | 0 | 0.52 | 7.14 | 366 | 7.08 | 369 |
| 60 | 0 | 0 | 0 | 0.52 | 7.25 | 361 | 7.19 | 364 |
| 70 | 0 | 0 | 0 | 0.52 | 7.36 | 355 | 7.3 | 358 |
| 80 | 0 | 0 | 0 | 0.52 | 7.44 | 351 | 7.4 | 353 |
| 90 | 0 | 0 | 0 | 0.52 | 7.51 | 348 | 7.51 | 348 |
| 100 | 0 | 0 | 0 | 0.52 | 7.58 | 345 | 7.58 | 345 |
| 110 | 0 | 0 | 0 | 0.52 | 7.65 | 342 | 7.65 | 342 |
| 120 | 0 | 0 | 0 | 0.52 | 7.72 | 339 | 7.72 | 339 |
| 130 | 0 | 0 | 0 | 0.52 | 7.79 | 336 | 7.79 | 336 |
| 167 | 0 | 0 | 0 | 0.52 | 8.03 | 326 | 8.03 | 326 |
| 212 | 0 | 0 | 0 | 0.52 | 8.33 | 314 | 8.33 | 314 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 16.08 | 1500 | 16.08 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 15.54 | 380 | 15.46 | 382 |
| 30 | 0 | 0 | 0 | 0.52 | 15.89 | 372 | 15.84 | 373 |
| 40 | 0 | 0 | 0 | 0.52 | 16.01 | 370 | 15.95 | 371 |
| 50 | 0 | 0 | 0 | 0.52 | 16.12 | 367 | 16.06 | 368 |
| 60 | 0 | 0 | 0 | 0.52 | 16.23 | 365 | 16.17 | 366 |
| 70 | 0 | 0 | 0 | 0.52 | 16.34 | 362 | 16.28 | 364 |
| 80 | 0 | 0 | 0 | 0.52 | 16.43 | 360 | 16.39 | 361 |
| 90 | 0 | 0 | 0 | 0.52 | 16.5 | 359 | 16.5 | 359 |
| 100 | 0 | 0 | 0 | 0.52 | 16.58 | 357 | 16.58 | 357 |
| 110 | 0 | 0 | 0 | 0.52 | 16.65 | 356 | 16.65 | 356 |
| 120 | 0 | 0 | 0 | 0.52 | 16.72 | 354 | 16.72 | 354 |
| 130 | 0 | 0 | 0 | 0.52 | 16.8 | 353 | 16.8 | 353 |
| 167 | 0 | 0 | 0 | 0.52 | 17.06 | 347 | 17.06 | 347 |
| 212 | 0 | 0 | 0 | 0.52 | 17.38 | 341 | 17.38 | 341 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 28.86 | 1500 | 28.86 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 28.32 | 375 | 28.24 | 376 |
| 30 | 0 | 0 | 0 | 0.52 | 28.67 | 370 | 28.61 | 371 |
| 40 | 0 | 0 | 0 | 0.52 | 28.78 | 369 | 28.72 | 370 |
| 50 | 0 | 0 | 0 | 0.52 | 28.89 | 367 | 28.84 | 368 |
| 60 | 0 | 0 | 0 | 0.52 | 29.01 | 366 | 28.95 | 367 |
| 70 | 0 | 0 | 0 | 0.52 | 29.12 | 365 | 29.06 | 366 |
| 80 | 0 | 0 | 0 | 0.52 | 29.21 | 364 | 29.16 | 364 |
| 90 | 0 | 0 | 0 | 0.52 | 29.28 | 363 | 29.27 | 363 |
| 100 | 0 | 0 | 0 | 0.52 | 29.36 | 362 | 29.36 | 362 |
| 110 | 0 | 0 | 0 | 0.52 | 29.43 | 361 | 29.43 | 361 |
| 120 | 0 | 0 | 0 | 0.52 | 29.51 | 360 | 29.51 | 360 |
| 130 | 0 | 0 | 0 | 0.52 | 29.58 | 359 | 29.58 | 359 |
| 167 | 0 | 0 | 0 | 0.52 | 29.85 | 356 | 29.85 | 356 |
| 212 | 0 | 0 | 0 | 0.52 | 30.18 | 352 | 30.18 | 352 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 45.65 | 1500 | 45.65 | 1500* |
| 0 | 0 | 0 | 0 | 0.52 | 45.11 | 372 | 45.03 | 373 |
| 30 | 0 | 0 | 0 | 0.52 | 45.45 | 369 | 45.4 | 370 |
| 40 | 0 | 0 | 0 | 0.52 | 45.57 | 368 | 45.51 | 369 |
| 50 | 0 | 0 | 0 | 0.52 | 45.68 | 368 | 45.62 | 368 |
| 60 | 0 | 0 | 0 | 0.52 | 45.79 | 367 | 45.73 | 367 |
| 70 | 0 | 0 | 0 | 0.52 | 45.91 | 366 | 45.84 | 366 |
| 80 | 0 | 0 | 0 | 0.52 | 46 | 365 | 45.95 | 366 |
| 90 | 0 | 0 | 0 | 0.52 | 46.07 | 365 | 46.06 | 365 |
| 100 | 0 | 0 | 0 | 0.52 | 46.15 | 364 | 46.15 | 364 |
| 110 | 0 | 0 | 0 | 0.52 | 46.22 | 364 | 46.22 | 364 |
| 120 | 0 | 0 | 0 | 0.52 | 46.3 | 363 | 46.3 | 363 |
| 130 | 0 | 0 | 0 | 0.52 | 46.37 | 363 | 46.37 | 363 |
| 167 | 0 | 0 | 0 | 0.52 | 46.65 | 361 | 46.65 | 361 |
| 212 | 0 | 0 | 0 | 0.52 | 46.98 | 358 | 46.98 | 358 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 100.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-1 | 2-2 | 2-3 |
| 125.00 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 |
| 150.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-0 |
| 175.00 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-3 | 6-6 | 6-8 | 6-10 |
| 200.00 | 5-8 | 6-1 | 6-7 | 7-0 | 7-5 | 7-10 | 8-2 | 8-6 | 8-9 | 9-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 |
| 100.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 |
| 125.00 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 150.00 | 3-3 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 |
| 175.00 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 |
| 200.00 | 5-10 | 6-4 | 6-9 | 7-3 | 7-8 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.332

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 |
| 125.00 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 |
| 150.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 |
| 175.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 |
| 200.00 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 225.00 | 8-6 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 |
| 250.00 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-10 | 12-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 |
| 125.00 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 |
| 150.00 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 |
| 175.00 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 |
| 200.00 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 225.00 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 |
| 250.00 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 |
| 175.00 | 5-4 | 5-5 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 |
| 200.00 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 |
| 225.00 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 |
| 250.00 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-7 |
| 275.00 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 |
| 300.00 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 | 16-5 | 16-6 | 16-7 | 16-8 |
| 325.00 | 18-6 | 18-7 | 18-9 | 18-10 | 19-0 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 |
| 350.00 | 21-5 | 21-7 | 21-9 | 21-11 | 22-0 | 22-2 | 22-4 | 22-6 | 22-7 | 22-8 |
| 375.00 | 24-7 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 | 25-8 | 25-10 | 26-0 | 26-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 |
| 175.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 |
| 200.00 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 |
| 225.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 |
| 250.00 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 |
| 275.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 |
| 300.00 | 15-9 | 15-11 | 16-0 | 16-1 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 |
| 325.00 | 18-6 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 | 19-4 | 19-5 | 19-6 | 19-7 |
| 350.00 | 21-6 | 21-8 | 21-10 | 22-0 | 22-1 | 22-3 | 22-5 | 22-6 | 22-7 | 22-8 |
| 375.00 | 24-8 | 24-11 | 25-1 | 25-3 | 25-5 | 25-7 | 25-9 | 25-10 | 26-0 | 26-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 |
| 225.00 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 |
| 250.00 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 |
| 275.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 |
| 300.00 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-6 |
| 325.00 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-2 | 19-3 | 19-4 | 19-5 |
| 350.00 | 21-9 | 21-10 | 21-11 | 22-0 | 22-2 | 22-3 | 22-4 | 22-5 | 22-5 | 22-6 |
| 375.00 | 25-0 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 |
| 400.00 | 28-6 | 28-7 | 28-9 | 28-10 | 28-11 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 |
| 425.00 | 32-2 | 32-4 | 32-5 | 32-7 | 32-8 | 32-10 | 32-11 | 33-1 | 33-2 | 33-3 |
| 450.00 | 36-2 | 36-3 | 36-5 | 36-7 | 36-8 | 36-10 | 37-0 | 37-1 | 37-3 | 37-4 |
| 475.00 | 40-4 | 40-6 | 40-7 | 40-9 | 40-11 | 41-1 | 41-3 | 41-5 | 41-6 | 41-8 |
| 500.00 | 44-8 | 44-11 | 45-1 | 45-3 | 45-5 | 45-7 | 45-9 | 45-11 | 46-1 | 46-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 |
| 225.00 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 |
| 250.00 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 |
| 275.00 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 |
| 300.00 | 16-0 | 16-1 | 16-2 | 16-2 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 |
| 325.00 | 18-10 | 18-11 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 |
| 350.00 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-5 | 22-6 |
| 375.00 | 25-1 | 25-2 | 25-3 | 25-4 | 25-6 | 25-7 | 25-8 | 25-9 | 25-9 | 25-10 |
| 400.00 | 28-7 | 28-8 | 28-9 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 |
| 425.00 | 32-3 | 32-5 | 32-6 | 32-8 | 32-9 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 |
| 450.00 | 36-2 | 36-4 | 36-6 | 36-8 | 36-9 | 36-11 | 37-0 | 37-2 | 37-3 | 37-4 |
| 475.00 | 40-4 | 40-6 | 40-8 | 40-10 | 41-0 | 41-2 | 41-4 | 41-5 | 41-6 | 41-8 |
| 500.00 | 44-9 | 45-0 | 45-2 | 45-4 | 45-6 | 45-8 | 45-10 | 45-11 | 46-1 | 46-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-6 |
| 275.00 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 |
| 300.00 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 |
| 325.00 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-4 | 19-4 | 19-4 | 19-5 |
| 350.00 | 22-1 | 22-2 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 |
| 375.00 | 25-4 | 25-5 | 25-6 | 25-6 | 25-7 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 |
| 400.00 | 28-11 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-4 | 29-5 | 29-6 |
| 425.00 | 32-8 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 |
| 450.00 | 36-7 | 36-8 | 36-9 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-4 |
| 475.00 | 40-10 | 40-11 | 41-0 | 41-2 | 41-3 | 41-4 | 41-5 | 41-6 | 41-7 | 41-8 |
| 500.00 | 45-3 | 45-5 | 45-6 | 45-7 | 45-9 | 45-10 | 45-11 | 46-1 | 46-2 | 46-3 |
| 525.00 | 50-0 | 50-1 | 50-3 | 50-4 | 50-6 | 50-7 | 50-9 | 50-10 | 50-11 | 51-0 |
| 550.00 | 54-11 | 55-1 | 55-2 | 55-4 | 55-6 | 55-7 | 55-9 | 55-10 | 56-0 | 56-1 |
| 575.00 | 60-1 | 60-3 | 60-5 | 60-7 | 60-8 | 60-10 | 61-0 | 61-2 | 61-3 | 61-4 |
| 600.00 | 65-6 | 65-8 | 65-10 | 66-0 | 66-2 | 66-4 | 66-6 | 66-8 | 66-9 | 66-11 |
| 625.00 | 71-2 | 71-4 | 71-7 | 71-9 | 71-11 | 72-1 | 72-3 | 72-5 | 72-7 | 72-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-5 | 11-6 |
| 275.00 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 |
| 300.00 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 |
| 325.00 | 19-0 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 | 19-4 | 19-4 | 19-4 | 19-5 |
| 350.00 | 22-1 | 22-2 | 22-2 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 |
| 375.00 | 25-5 | 25-5 | 25-6 | 25-7 | 25-8 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 |
| 400.00 | 28-11 | 29-0 | 29-1 | 29-1 | 29-2 | 29-3 | 29-4 | 29-4 | 29-5 | 29-6 |
| 425.00 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 | 33-2 | 33-2 | 33-3 | 33-4 |
| 450.00 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-4 |
| 475.00 | 40-11 | 41-0 | 41-1 | 41-2 | 41-3 | 41-5 | 41-6 | 41-6 | 41-7 | 41-8 |
| 500.00 | 45-4 | 45-5 | 45-7 | 45-8 | 45-10 | 45-11 | 46-0 | 46-1 | 46-2 | 46-3 |
| 525.00 | 50-1 | 50-2 | 50-4 | 50-5 | 50-7 | 50-8 | 50-9 | 50-10 | 50-11 | 51-0 |
| 550.00 | 55-0 | 55-1 | 55-3 | 55-5 | 55-6 | 55-8 | 55-9 | 55-11 | 56-0 | 56-1 |
| 575.00 | 60-2 | 60-4 | 60-6 | 60-8 | 60-9 | 60-11 | 61-1 | 61-2 | 61-3 | 61-4 |
| 600.00 | 65-7 | 65-9 | 65-11 | 66-1 | 66-3 | 66-5 | 66-7 | 66-8 | 66-9 | 66-11 |
| 625.00 | 71-3 | 71-5 | 71-8 | 71-10 | 72-0 | 72-2 | 72-4 | 72-5 | 72-7 | 72-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 1.33 | 2000 | 1.33 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.51 | 1276 | 0.48 | 1345 |
| 30 | 0 | 0 | 0 | 0.52 | 0.95 | 684 | 0.86 | 755 |
| 40 | 0 | 0 | 0 | 0.52 | 1.1 | 590 | 1.01 | 646 |
| 50 | 0 | 0 | 0 | 0.52 | 1.25 | 522 | 1.15 | 567 |
| 60 | 0 | 0 | 0 | 0.52 | 1.38 | 471 | 1.28 | 507 |
| 70 | 0 | 0 | 0 | 0.52 | 1.51 | 431 | 1.41 | 461 |
| 80 | 0 | 0 | 0 | 0.52 | 1.59 | 408 | 1.53 | 425 |
| 90 | 0 | 0 | 0 | 0.52 | 1.66 | 391 | 1.64 | 396 |
| 100 | 0 | 0 | 0 | 0.52 | 1.73 | 375 | 1.73 | 375 |
| 110 | 0 | 0 | 0 | 0.52 | 1.8 | 361 | 1.8 | 361 |
| 120 | 0 | 0 | 0 | 0.52 | 1.87 | 349 | 1.87 | 349 |
| 130 | 0 | 0 | 0 | 0.52 | 1.93 | 337 | 1.93 | 337 |
| 167 | 0 | 0 | 0 | 0.52 | 2.15 | 303 | 2.15 | 303 |
| 212 | 0 | 0 | 0 | 0.52 | 2.4 | 271 | 2.4 | 271 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 5.32 | 2000 | 5.32 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 4.43 | 588 | 4.34 | 601 |
| 30 | 0 | 0 | 0 | 0.52 | 4.92 | 529 | 4.82 | 541 |
| 40 | 0 | 0 | 0 | 0.52 | 5.08 | 513 | 4.97 | 524 |
| 50 | 0 | 0 | 0 | 0.52 | 5.23 | 499 | 5.12 | 509 |
| 60 | 0 | 0 | 0 | 0.52 | 5.38 | 485 | 5.27 | 495 |
| 70 | 0 | 0 | 0 | 0.52 | 5.52 | 472 | 5.41 | 482 |
| 80 | 0 | 0 | 0 | 0.52 | 5.65 | 462 | 5.55 | 470 |
| 90 | 0 | 0 | 0 | 0.52 | 5.74 | 454 | 5.68 | 459 |
| 100 | 0 | 0 | 0 | 0.52 | 5.83 | 448 | 5.82 | 448 |
| 110 | 0 | 0 | 0 | 0.52 | 5.92 | 441 | 5.92 | 441 |
| 120 | 0 | 0 | 0 | 0.52 | 6 | 435 | 6 | 435 |
| 130 | 0 | 0 | 0 | 0.52 | 6.09 | 429 | 6.09 | 429 |
| 167 | 0 | 0 | 0 | 0.52 | 6.39 | 408 | 6.39 | 408 |
| 212 | 0 | 0 | 0 | 0.52 | 6.75 | 387 | 6.75 | 387 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 12 | 2000 | 12 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 11.14 | 528 | 11.04 | 533 |
| 30 | 0 | 0 | 0 | 0.52 | 11.61 | 507 | 11.51 | 511 |
| 40 | 0 | 0 | 0 | 0.52 | 11.76 | 500 | 11.66 | 505 |
| 50 | 0 | 0 | 0 | 0.52 | 11.91 | 494 | 11.81 | 499 |
| 60 | 0 | 0 | 0 | 0.52 | 12.06 | 488 | 11.95 | 493 |
| 70 | 0 | 0 | 0 | 0.52 | 12.21 | 482 | 12.1 | 487 |
| 80 | 0 | 0 | 0 | 0.52 | 12.36 | 477 | 12.24 | 481 |
| 90 | 0 | 0 | 0 | 0.52 | 12.45 | 473 | 12.38 | 476 |
| 100 | 0 | 0 | 0 | 0.52 | 12.55 | 469 | 12.53 | 470 |
| 110 | 0 | 0 | 0 | 0.52 | 12.65 | 466 | 12.65 | 466 |
| 120 | 0 | 0 | 0 | 0.52 | 12.74 | 463 | 12.74 | 463 |
| 130 | 0 | 0 | 0 | 0.52 | 12.83 | 459 | 12.83 | 459 |
| 167 | 0 | 0 | 0 | 0.52 | 13.17 | 448 | 13.17 | 448 |
| 212 | 0 | 0 | 0 | 0.52 | 13.57 | 435 | 13.57 | 435 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 21.45 | 2000 | 21.45 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 20.59 | 511 | 20.49 | 513 |
| 30 | 0 | 0 | 0 | 0.52 | 21.05 | 499 | 20.95 | 502 |
| 40 | 0 | 0 | 0 | 0.52 | 21.21 | 496 | 21.1 | 498 |
| 50 | 0 | 0 | 0 | 0.52 | 21.36 | 493 | 21.25 | 495 |
| 60 | 0 | 0 | 0 | 0.52 | 21.51 | 489 | 21.4 | 492 |
| 70 | 0 | 0 | 0 | 0.52 | 21.66 | 486 | 21.54 | 488 |
| 80 | 0 | 0 | 0 | 0.52 | 21.81 | 483 | 21.69 | 485 |
| 90 | 0 | 0 | 0 | 0.52 | 21.91 | 480 | 21.83 | 482 |
| 100 | 0 | 0 | 0 | 0.52 | 22 | 478 | 21.98 | 479 |
| 110 | 0 | 0 | 0 | 0.52 | 22.11 | 476 | 22.11 | 476 |
| 120 | 0 | 0 | 0 | 0.52 | 22.2 | 474 | 22.2 | 474 |
| 130 | 0 | 0 | 0 | 0.52 | 22.3 | 472 | 22.3 | 472 |
| 167 | 0 | 0 | 0 | 0.52 | 22.65 | 465 | 22.65 | 465 |
| 212 | 0 | 0 | 0 | 0.52 | 23.07 | 457 | 23.07 | 457 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 33.73 | 2000 | 33.73 | 2000* |
| 0 | 0 | 0 | 0 | 0.52 | 32.88 | 503 | 32.78 | 504 |
| 30 | 0 | 0 | 0 | 0.52 | 33.34 | 496 | 33.24 | 498 |
| 40 | 0 | 0 | 0 | 0.52 | 33.49 | 494 | 33.39 | 495 |
| 50 | 0 | 0 | 0 | 0.52 | 33.64 | 492 | 33.53 | 493 |
| 60 | 0 | 0 | 0 | 0.52 | 33.79 | 490 | 33.68 | 491 |
| 70 | 0 | 0 | 0 | 0.52 | 33.94 | 488 | 33.83 | 489 |
| 80 | 0 | 0 | 0 | 0.52 | 34.09 | 485 | 33.97 | 487 |
| 90 | 0 | 0 | 0 | 0.52 | 34.2 | 484 | 34.12 | 485 |
| 100 | 0 | 0 | 0 | 0.52 | 34.3 | 483 | 34.27 | 483 |
| 110 | 0 | 0 | 0 | 0.52 | 34.4 | 481 | 34.4 | 481 |
| 120 | 0 | 0 | 0 | 0.52 | 34.5 | 480 | 34.5 | 480 |
| 130 | 0 | 0 | 0 | 0.52 | 34.6 | 479 | 34.6 | 479 |
| 167 | 0 | 0 | 0 | 0.52 | 34.96 | 474 | 34.96 | 474 |
| 212 | 0 | 0 | 0 | 0.52 | 35.39 | 468 | 35.39 | 468 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-10 |
| 150.00 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-1 |
| 175.00 | 2-2 | 2-8 | 3-1 | 3-6 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-6 |
| 200.00 | 2-11 | 3-5 | 4-0 | 4-7 | 5-2 | 5-8 | 6-2 | 6-7 | 6-11 | 7-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 150.00 | 1-9 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 |
| 175.00 | 2-5 | 2-11 | 3-5 | 3-10 | 4-3 | 4-7 | 4-11 | 5-1 | 5-4 | 5-6 |
| 200.00 | 3-2 | 3-10 | 4-5 | 5-0 | 5-6 | 6-0 | 6-5 | 6-8 | 6-11 | 7-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 |
| 125.00 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 150.00 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 175.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 200.00 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 |
| 225.00 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 |
| 250.00 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-5 | 8-8 | 8-11 | 9-1 | 9-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-5 | 1-6 |
| 125.00 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 |
| 150.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 175.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 |
| 200.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 |
| 225.00 | 6-0 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 |
| 250.00 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 |
| 175.00 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 |
| 200.00 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 |
| 225.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 |
| 250.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 275.00 | 9-6 | 9-8 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 |
| 300.00 | 11-4 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 |
| 325.00 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 |
| 350.00 | 15-6 | 15-8 | 15-11 | 16-1 | 16-3 | 16-6 | 16-8 | 16-10 | 17-1 | 17-3 |
| 375.00 | 17-9 | 18-0 | 18-3 | 18-6 | 18-8 | 18-11 | 19-2 | 19-5 | 19-7 | 19-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 |
| 175.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 |
| 200.00 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 |
| 225.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 |
| 250.00 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 |
| 275.00 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-6 | 10-7 |
| 300.00 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-4 | 12-5 | 12-7 | 12-8 |
| 325.00 | 13-5 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 |
| 350.00 | 15-7 | 15-10 | 16-0 | 16-3 | 16-5 | 16-8 | 16-10 | 17-0 | 17-1 | 17-3 |
| 375.00 | 17-11 | 18-2 | 18-5 | 18-8 | 18-10 | 19-1 | 19-4 | 19-6 | 19-8 | 19-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 225.00 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 |
| 250.00 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 |
| 275.00 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 |
| 300.00 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 |
| 325.00 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-4 | 14-5 | 14-6 | 14-7 |
| 350.00 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 |
| 375.00 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 | 19-4 | 19-5 |
| 400.00 | 20-10 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-8 | 21-10 | 22-0 | 22-1 |
| 425.00 | 23-6 | 23-8 | 23-10 | 24-0 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 |
| 450.00 | 26-4 | 26-7 | 26-9 | 26-11 | 27-1 | 27-4 | 27-6 | 27-8 | 27-10 | 28-0 |
| 475.00 | 29-5 | 29-7 | 29-10 | 30-0 | 30-3 | 30-5 | 30-8 | 30-10 | 31-0 | 31-3 |
| 500.00 | 32-7 | 32-10 | 33-0 | 33-3 | 33-6 | 33-9 | 34-0 | 34-2 | 34-5 | 34-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 |
| 225.00 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 |
| 250.00 | 8-2 | 8-2 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 |
| 275.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 |
| 300.00 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 |
| 325.00 | 13-9 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-5 | 14-5 | 14-6 | 14-7 |
| 350.00 | 16-0 | 16-1 | 16-3 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 |
| 375.00 | 18-4 | 18-6 | 18-8 | 18-9 | 18-11 | 19-0 | 19-2 | 19-3 | 19-4 | 19-5 |
| 400.00 | 20-11 | 21-1 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 | 21-11 | 22-0 | 22-1 |
| 425.00 | 23-7 | 23-9 | 23-11 | 24-1 | 24-4 | 24-6 | 24-8 | 24-9 | 24-10 | 25-0 |
| 450.00 | 26-6 | 26-8 | 26-10 | 27-1 | 27-3 | 27-5 | 27-8 | 27-9 | 27-11 | 28-0 |
| 475.00 | 29-6 | 29-9 | 29-11 | 30-2 | 30-5 | 30-7 | 30-10 | 30-11 | 31-1 | 31-3 |
| 500.00 | 32-9 | 33-0 | 33-2 | 33-5 | 33-8 | 33-11 | 34-2 | 34-4 | 34-6 | 34-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS



OH811.343

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 |
| 275.00 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 |
| 300.00 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 |
| 325.00 | 13-11 | 14-0 | 14-1 | 14-1 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 |
| 350.00 | 16-2 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 |
| 375.00 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 |
| 400.00 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-11 | 22-0 |
| 425.00 | 23-10 | 24-0 | 24-1 | 24-2 | 24-4 | 24-5 | 24-6 | 24-7 | 24-9 | 24-10 |
| 450.00 | 26-9 | 26-11 | 27-0 | 27-2 | 27-3 | 27-4 | 27-6 | 27-7 | 27-9 | 27-10 |
| 475.00 | 29-10 | 30-0 | 30-1 | 30-3 | 30-5 | 30-6 | 30-8 | 30-9 | 30-11 | 31-0 |
| 500.00 | 33-1 | 33-3 | 33-5 | 33-6 | 33-8 | 33-10 | 34-0 | 34-1 | 34-3 | 34-5 |
| 525.00 | 36-6 | 36-8 | 36-10 | 37-0 | 37-2 | 37-4 | 37-6 | 37-8 | 37-10 | 37-11 |
| 550.00 | 40-1 | 40-3 | 40-5 | 40-8 | 40-10 | 41-0 | 41-2 | 41-4 | 41-6 | 41-8 |
| 575.00 | 43-10 | 44-0 | 44-3 | 44-5 | 44-8 | 44-10 | 45-0 | 45-3 | 45-5 | 45-7 |
| 600.00 | 47-9 | 48-0 | 48-2 | 48-5 | 48-8 | 48-10 | 49-1 | 49-3 | 49-6 | 49-8 |
| 625.00 | 51-10 | 52-1 | 52-4 | 52-7 | 52-10 | 53-0 | 53-3 | 53-6 | 53-9 | 53-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 |
| 275.00 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 |
| 300.00 | 11-11 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 |
| 325.00 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-5 | 14-6 |
| 350.00 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 | 16-10 |
| 375.00 | 18-7 | 18-8 | 18-9 | 18-10 | 19-0 | 19-1 | 19-2 | 19-2 | 19-3 | 19-4 |
| 400.00 | 21-2 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 |
| 425.00 | 23-11 | 24-1 | 24-2 | 24-3 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 |
| 450.00 | 26-10 | 27-0 | 27-1 | 27-3 | 27-4 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 |
| 475.00 | 29-11 | 30-1 | 30-3 | 30-4 | 30-6 | 30-7 | 30-9 | 30-10 | 30-11 | 31-0 |
| 500.00 | 33-2 | 33-4 | 33-6 | 33-8 | 33-10 | 33-11 | 34-1 | 34-2 | 34-4 | 34-5 |
| 525.00 | 36-7 | 36-9 | 36-11 | 37-1 | 37-3 | 37-5 | 37-7 | 37-9 | 37-10 | 37-11 |
| 550.00 | 40-2 | 40-5 | 40-7 | 40-9 | 40-11 | 41-2 | 41-4 | 41-5 | 41-7 | 41-8 |
| 575.00 | 44-0 | 44-2 | 44-5 | 44-7 | 44-9 | 45-0 | 45-2 | 45-4 | 45-5 | 45-7 |
| 600.00 | 47-11 | 48-2 | 48-4 | 48-7 | 48-10 | 49-0 | 49-3 | 49-5 | 49-6 | 49-8 |
| 625.00 | 52-0 | 52-3 | 52-6 | 52-9 | 53-0 | 53-3 | 53-5 | 53-7 | 53-9 | 53-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 1.06 | 2500 | 1.06 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 0.29 | 2254 | 0.29 | 2268 |
| 30 | 0 | 0 | 0 | 0.52 | 0.54 | 1207 | 0.47 | 1384 |
| 40 | 0 | 0 | 0 | 0.52 | 0.68 | 961 | 0.57 | 1133 |
| 50 | 0 | 0 | 0 | 0.52 | 0.83 | 782 | 0.7 | 927 |
| 60 | 0 | 0 | 0 | 0.52 | 0.99 | 658 | 0.84 | 771 |
| 70 | 0 | 0 | 0 | 0.52 | 1.14 | 571 | 0.99 | 657 |
| 80 | 0 | 0 | 0 | 0.52 | 1.26 | 515 | 1.13 | 575 |
| 90 | 0 | 0 | 0 | 0.52 | 1.34 | 486 | 1.27 | 513 |
| 100 | 0 | 0 | 0 | 0.52 | 1.41 | 461 | 1.4 | 466 |
| 110 | 0 | 0 | 0 | 0.52 | 1.49 | 437 | 1.49 | 437 |
| 120 | 0 | 0 | 0 | 0.52 | 1.56 | 417 | 1.56 | 417 |
| 130 | 0 | 0 | 0 | 0.52 | 1.63 | 399 | 1.63 | 399 |
| 167 | 0 | 0 | 0 | 0.52 | 1.88 | 347 | 1.88 | 347 |
| 212 | 0 | 0 | 0 | 0.52 | 2.15 | 303 | 2.15 | 303 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 4.25 | 2500 | 4.25 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 2.94 | 886 | 2.78 | 935 |
| 30 | 0 | 0 | 0 | 0.52 | 3.59 | 726 | 3.41 | 762 |
| 40 | 0 | 0 | 0 | 0.52 | 3.79 | 688 | 3.61 | 721 |
| 50 | 0 | 0 | 0 | 0.52 | 3.98 | 655 | 3.8 | 685 |
| 60 | 0 | 0 | 0 | 0.52 | 4.16 | 626 | 3.98 | 654 |
| 70 | 0 | 0 | 0 | 0.52 | 4.34 | 600 | 4.16 | 626 |
| 80 | 0 | 0 | 0 | 0.52 | 4.51 | 577 | 4.33 | 601 |
| 90 | 0 | 0 | 0 | 0.52 | 4.64 | 562 | 4.5 | 579 |
| 100 | 0 | 0 | 0 | 0.52 | 4.74 | 550 | 4.66 | 559 |
| 110 | 0 | 0 | 0 | 0.52 | 4.84 | 539 | 4.82 | 541 |
| 120 | 0 | 0 | 0 | 0.52 | 4.94 | 527 | 4.94 | 527 |
| 130 | 0 | 0 | 0 | 0.52 | 5.04 | 517 | 5.04 | 517 |
| 167 | 0 | 0 | 0 | 0.52 | 5.39 | 484 | 5.39 | 484 |
| 212 | 0 | 0 | 0 | 0.52 | 5.8 | 450 | 5.8 | 450 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 9.58 | 2500 | 9.58 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 8.31 | 706 | 8.15 | 720 |
| 30 | 0 | 0 | 0 | 0.52 | 8.92 | 658 | 8.74 | 671 |
| 40 | 0 | 0 | 0 | 0.52 | 9.11 | 644 | 8.94 | 657 |
| 50 | 0 | 0 | 0 | 0.52 | 9.3 | 631 | 9.12 | 644 |
| 60 | 0 | 0 | 0 | 0.52 | 9.49 | 619 | 9.31 | 631 |
| 70 | 0 | 0 | 0 | 0.52 | 9.68 | 607 | 9.49 | 619 |
| 80 | 0 | 0 | 0 | 0.52 | 9.86 | 596 | 9.67 | 608 |
| 90 | 0 | 0 | 0 | 0.52 | 10.01 | 587 | 9.85 | 597 |
| 100 | 0 | 0 | 0 | 0.52 | 10.12 | 581 | 10.02 | 586 |
| 110 | 0 | 0 | 0 | 0.52 | 10.23 | 574 | 10.19 | 577 |
| 120 | 0 | 0 | 0 | 0.52 | 10.35 | 568 | 10.35 | 568 |
| 130 | 0 | 0 | 0 | 0.52 | 10.46 | 562 | 10.46 | 562 |
| 167 | 0 | 0 | 0 | 0.52 | 10.86 | 541 | 10.86 | 541 |
| 212 | 0 | 0 | 0 | 0.52 | 11.33 | 519 | 11.33 | 519 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 17.08 | 2500 | 17.08 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 15.83 | 661 | 15.68 | 668 |
| 30 | 0 | 0 | 0 | 0.52 | 16.42 | 638 | 16.25 | 644 |
| 40 | 0 | 0 | 0 | 0.52 | 16.62 | 630 | 16.44 | 637 |
| 50 | 0 | 0 | 0 | 0.52 | 16.81 | 623 | 16.63 | 630 |
| 60 | 0 | 0 | 0 | 0.52 | 17 | 616 | 16.81 | 623 |
| 70 | 0 | 0 | 0 | 0.52 | 17.18 | 610 | 16.99 | 616 |
| 80 | 0 | 0 | 0 | 0.52 | 17.37 | 603 | 17.18 | 610 |
| 90 | 0 | 0 | 0 | 0.52 | 17.53 | 598 | 17.36 | 604 |
| 100 | 0 | 0 | 0 | 0.52 | 17.65 | 594 | 17.53 | 598 |
| 110 | 0 | 0 | 0 | 0.52 | 17.77 | 590 | 17.71 | 592 |
| 120 | 0 | 0 | 0 | 0.52 | 17.89 | 586 | 17.89 | 586 |
| 130 | 0 | 0 | 0 | 0.52 | 18 | 582 | 18 | 582 |
| 167 | 0 | 0 | 0 | 0.52 | 18.43 | 569 | 18.43 | 569 |
| 212 | 0 | 0 | 0 | 0.52 | 18.94 | 554 | 18.94 | 554 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 26.81 | 2500 | 26.81 | 2500* |
| 0 | 0 | 0 | 0 | 0.52 | 25.56 | 642 | 25.41 | 646 |
| 30 | 0 | 0 | 0 | 0.52 | 26.14 | 628 | 25.98 | 632 |
| 40 | 0 | 0 | 0 | 0.52 | 26.34 | 624 | 26.16 | 628 |
| 50 | 0 | 0 | 0 | 0.52 | 26.53 | 619 | 26.35 | 624 |
| 60 | 0 | 0 | 0 | 0.52 | 26.72 | 615 | 26.53 | 619 |
| 70 | 0 | 0 | 0 | 0.52 | 26.9 | 611 | 26.72 | 615 |
| 80 | 0 | 0 | 0 | 0.52 | 27.09 | 607 | 26.9 | 611 |
| 90 | 0 | 0 | 0 | 0.52 | 27.26 | 603 | 27.08 | 607 |
| 100 | 0 | 0 | 0 | 0.52 | 27.38 | 601 | 27.26 | 603 |
| 110 | 0 | 0 | 0 | 0.52 | 27.5 | 598 | 27.44 | 599 |
| 120 | 0 | 0 | 0 | 0.52 | 27.62 | 595 | 27.62 | 596 |
| 130 | 0 | 0 | 0 | 0.52 | 27.75 | 593 | 27.75 | 593 |
| 167 | 0 | 0 | 0 | 0.52 | 28.19 | 584 | 28.19 | 584 |
| 212 | 0 | 0 | 0 | 0.52 | 28.72 | 573 | 28.72 | 573 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 |
| 125.00 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 |
| 150.00 | 0-11 | 1-1 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-10 | 3-2 | 3-4 |
| 175.00 | 1-2 | 1-5 | 1-9 | 2-2 | 2-7 | 3-0 | 3-6 | 3-11 | 4-3 | 4-7 |
| 200.00 | 1-7 | 1-11 | 2-4 | 2-10 | 3-4 | 4-0 | 4-6 | 5-1 | 5-7 | 6-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-9 | 2-0 | 2-1 | 2-2 | 2-4 |
| 150.00 | 1-0 | 1-3 | 1-6 | 1-10 | 2-3 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 |
| 175.00 | 1-4 | 1-8 | 2-1 | 2-7 | 3-0 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 |
| 200.00 | 1-9 | 2-2 | 2-8 | 3-4 | 3-11 | 4-7 | 5-1 | 5-4 | 5-8 | 6-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 |
| 150.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 |
| 175.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 |
| 200.00 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 |
| 225.00 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 |
| 250.00 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 150.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-8 |
| 200.00 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-10 |
| 225.00 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 5-10 | 6-0 | 6-2 |
| 250.00 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-9 | 7-1 | 7-3 | 7-5 | 7-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 |
| 175.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 |
| 200.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 |
| 225.00 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 |
| 250.00 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 |
| 275.00 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-1 | 8-3 | 8-5 | 8-7 |
| 300.00 | 8-7 | 8-9 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 |
| 325.00 | 10-0 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 | 11-4 | 11-7 | 11-9 | 12-0 |
| 350.00 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-11 |
| 375.00 | 13-4 | 13-8 | 14-0 | 14-3 | 14-7 | 14-10 | 15-1 | 15-5 | 15-8 | 15-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 |
| 175.00 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 |
| 200.00 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 |
| 225.00 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-8 | 5-9 |
| 250.00 | 6-1 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 275.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 |
| 300.00 | 8-9 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 |
| 325.00 | 10-3 | 10-6 | 10-8 | 10-11 | 11-2 | 11-4 | 11-7 | 11-9 | 11-11 | 12-0 |
| 350.00 | 11-10 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-9 | 13-11 |
| 375.00 | 13-8 | 13-11 | 14-3 | 14-7 | 14-10 | 15-2 | 15-5 | 15-8 | 15-10 | 16-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 |
| 225.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 |
| 250.00 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 |
| 275.00 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 |
| 300.00 | 9-0 | 9-2 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 |
| 325.00 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 |
| 350.00 | 12-3 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 |
| 375.00 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 |
| 400.00 | 16-1 | 16-3 | 16-5 | 16-8 | 16-10 | 17-0 | 17-2 | 17-4 | 17-6 | 17-9 |
| 425.00 | 18-2 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 | 19-5 | 19-7 | 19-10 | 20-0 |
| 450.00 | 20-4 | 20-7 | 20-10 | 21-1 | 21-3 | 21-6 | 21-9 | 22-0 | 22-2 | 22-5 |
| 475.00 | 22-8 | 22-11 | 23-2 | 23-6 | 23-9 | 24-0 | 24-3 | 24-6 | 24-9 | 25-0 |
| 500.00 | 25-2 | 25-5 | 25-9 | 26-0 | 26-4 | 26-7 | 26-10 | 27-2 | 27-5 | 27-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 |
| 225.00 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 |
| 250.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 |
| 275.00 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 |
| 300.00 | 9-1 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 325.00 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 |
| 350.00 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-6 | 13-7 |
| 375.00 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-6 | 15-7 |
| 400.00 | 16-3 | 16-5 | 16-7 | 16-10 | 17-0 | 17-2 | 17-4 | 17-6 | 17-8 | 17-9 |
| 425.00 | 18-4 | 18-7 | 18-9 | 19-0 | 19-2 | 19-5 | 19-7 | 19-10 | 19-11 | 20-1 |
| 450.00 | 20-7 | 20-10 | 21-0 | 21-3 | 21-6 | 21-9 | 22-0 | 22-2 | 22-4 | 22-6 |
| 475.00 | 22-11 | 23-2 | 23-5 | 23-9 | 24-0 | 24-3 | 24-6 | 24-9 | 24-11 | 25-1 |
| 500.00 | 25-5 | 25-8 | 26-0 | 26-4 | 26-7 | 26-11 | 27-2 | 27-5 | 27-7 | 27-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 |
| 275.00 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 |
| 300.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 |
| 325.00 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 |
| 350.00 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 |
| 375.00 | 14-6 | 14-7 | 14-8 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-4 | 15-5 |
| 400.00 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 |
| 425.00 | 18-7 | 18-9 | 18-11 | 19-0 | 19-2 | 19-3 | 19-5 | 19-7 | 19-8 | 19-10 |
| 450.00 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 |
| 475.00 | 23-3 | 23-5 | 23-7 | 23-9 | 23-11 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 |
| 500.00 | 25-9 | 26-0 | 26-2 | 26-4 | 26-6 | 26-9 | 26-11 | 27-1 | 27-3 | 27-5 |
| 525.00 | 28-5 | 28-8 | 28-10 | 29-1 | 29-3 | 29-6 | 29-8 | 29-10 | 30-1 | 30-3 |
| 550.00 | 31-3 | 31-5 | 31-8 | 31-11 | 32-2 | 32-4 | 32-7 | 32-10 | 33-0 | 33-3 |
| 575.00 | 34-2 | 34-5 | 34-8 | 34-11 | 35-2 | 35-5 | 35-7 | 35-10 | 36-1 | 36-4 |
| 600.00 | 37-2 | 37-6 | 37-9 | 38-0 | 38-3 | 38-6 | 38-10 | 39-1 | 39-4 | 39-7 |
| 625.00 | 40-4 | 40-8 | 41-0 | 41-3 | 41-7 | 41-10 | 42-1 | 42-5 | 42-8 | 43-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-10 |
| 275.00 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 |
| 300.00 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 |
| 325.00 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-7 |
| 350.00 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-5 |
| 375.00 | 14-7 | 14-8 | 14-9 | 14-11 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 | 15-5 |
| 400.00 | 16-7 | 16-9 | 16-10 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 | 17-7 |
| 425.00 | 18-9 | 18-10 | 19-0 | 19-2 | 19-3 | 19-5 | 19-7 | 19-8 | 19-9 | 19-10 |
| 450.00 | 21-0 | 21-2 | 21-4 | 21-6 | 21-7 | 21-9 | 21-11 | 22-1 | 22-2 | 22-3 |
| 475.00 | 23-5 | 23-7 | 23-9 | 23-11 | 24-1 | 24-3 | 24-5 | 24-7 | 24-8 | 24-10 |
| 500.00 | 25-11 | 26-2 | 26-4 | 26-6 | 26-9 | 26-11 | 27-1 | 27-3 | 27-5 | 27-6 |
| 525.00 | 28-7 | 28-10 | 29-1 | 29-3 | 29-6 | 29-8 | 29-11 | 30-1 | 30-2 | 30-4 |
| 550.00 | 31-5 | 31-8 | 31-11 | 32-1 | 32-4 | 32-7 | 32-10 | 33-0 | 33-2 | 33-4 |
| 575.00 | 34-4 | 34-7 | 34-10 | 35-1 | 35-5 | 35-8 | 35-10 | 36-1 | 36-3 | 36-5 |
| 600.00 | 37-5 | 37-9 | 38-0 | 38-3 | 38-6 | 38-10 | 39-1 | 39-4 | 39-6 | 39-8 |
| 625.00 | 40-8 | 40-11 | 41-3 | 41-6 | 41-10 | 42-2 | 42-5 | 42-8 | 42-11 | 43-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 0.88 | 3000 | 0.88 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 0.21 | 3024 | 0.21 | 3024 |
| 30 | 0 | 0 | 0 | 0.52 | 0.34 | 1887 | 0.31 | 2100 |
| 40 | 0 | 0 | 0 | 0.52 | 0.42 | 1530 | 0.36 | 1796 |
| 50 | 0 | 0 | 0 | 0.52 | 0.53 | 1218 | 0.43 | 1503 |
| 60 | 0 | 0 | 0 | 0.52 | 0.67 | 969 | 0.53 | 1236 |
| 70 | 0 | 0 | 0 | 0.52 | 0.82 | 788 | 0.64 | 1008 |
| 80 | 0 | 0 | 0 | 0.52 | 0.98 | 663 | 0.78 | 830 |
| 90 | 0 | 0 | 0 | 0.52 | 1.07 | 606 | 0.93 | 700 |
| 100 | 0 | 0 | 0 | 0.52 | 1.15 | 566 | 1.07 | 605 |
| 110 | 0 | 0 | 0 | 0.52 | 1.22 | 531 | 1.21 | 536 |
| 120 | 0 | 0 | 0 | 0.52 | 1.3 | 499 | 1.3 | 499 |
| 130 | 0 | 0 | 0 | 0.52 | 1.38 | 472 | 1.38 | 472 |
| 167 | 0 | 0 | 0 | 0.52 | 1.64 | 396 | 1.64 | 396 |
| 212 | 0 | 0 | 0 | 0.52 | 1.94 | 335 | 1.94 | 335 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 3.54 | 3000 | 3.54 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 1.81 | 1434 | 1.65 | 1577 |
| 30 | 0 | 0 | 0 | 0.52 | 2.56 | 1018 | 2.31 | 1126 |
| 40 | 0 | 0 | 0 | 0.52 | 2.8 | 931 | 2.54 | 1025 |
| 50 | 0 | 0 | 0 | 0.52 | 3.03 | 860 | 2.76 | 941 |
| 60 | 0 | 0 | 0 | 0.52 | 3.25 | 801 | 2.98 | 872 |
| 70 | 0 | 0 | 0 | 0.52 | 3.46 | 752 | 3.2 | 815 |
| 80 | 0 | 0 | 0 | 0.52 | 3.66 | 710 | 3.4 | 765 |
| 90 | 0 | 0 | 0 | 0.52 | 3.84 | 678 | 3.6 | 723 |
| 100 | 0 | 0 | 0 | 0.52 | 3.96 | 658 | 3.79 | 687 |
| 110 | 0 | 0 | 0 | 0.52 | 4.07 | 640 | 3.97 | 655 |
| 120 | 0 | 0 | 0 | 0.52 | 4.18 | 624 | 4.15 | 627 |
| 130 | 0 | 0 | 0 | 0.52 | 4.29 | 607 | 4.29 | 607 |
| 167 | 0 | 0 | 0 | 0.52 | 4.68 | 557 | 4.68 | 557 |
| 212 | 0 | 0 | 0 | 0.52 | 5.12 | 509 | 5.12 | 509 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 7.97 | 3000 | 7.97 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 6.21 | 944 | 5.95 | 984 |
| 30 | 0 | 0 | 0 | 0.52 | 6.97 | 841 | 6.7 | 875 |
| 40 | 0 | 0 | 0 | 0.52 | 7.21 | 813 | 6.94 | 845 |
| 50 | 0 | 0 | 0 | 0.52 | 7.44 | 788 | 7.17 | 818 |
| 60 | 0 | 0 | 0 | 0.52 | 7.67 | 765 | 7.39 | 793 |
| 70 | 0 | 0 | 0 | 0.52 | 7.89 | 743 | 7.61 | 771 |
| 80 | 0 | 0 | 0 | 0.52 | 8.11 | 724 | 7.83 | 749 |
| 90 | 0 | 0 | 0 | 0.52 | 8.32 | 705 | 8.04 | 730 |
| 100 | 0 | 0 | 0 | 0.52 | 8.45 | 694 | 8.24 | 712 |
| 110 | 0 | 0 | 0 | 0.52 | 8.58 | 684 | 8.45 | 695 |
| 120 | 0 | 0 | 0 | 0.52 | 8.71 | 674 | 8.65 | 679 |
| 130 | 0 | 0 | 0 | 0.52 | 8.84 | 664 | 8.84 | 664 |
| 167 | 0 | 0 | 0 | 0.52 | 9.3 | 632 | 9.3 | 632 |
| 212 | 0 | 0 | 0 | 0.52 | 9.83 | 598 | 9.83 | 598 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.12 | 14.21 | 3000 | 14.21 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 12.47 | 837 | 12.22 | 854 |
| 30 | 0 | 0 | 0 | 0.52 | 13.2 | 791 | 12.94 | 807 |
| 40 | 0 | 0 | 0 | 0.52 | 13.44 | 777 | 13.17 | 793 |
| 50 | 0 | 0 | 0 | 0.52 | 13.67 | 764 | 13.39 | 780 |
| 60 | 0 | 0 | 0 | 0.52 | 13.9 | 752 | 13.62 | 767 |
| 70 | 0 | 0 | 0 | 0.52 | 14.12 | 740 | 13.84 | 755 |
| 80 | 0 | 0 | 0 | 0.52 | 14.34 | 729 | 14.06 | 744 |
| 90 | 0 | 0 | 0 | 0.52 | 14.56 | 718 | 14.27 | 732 |
| 100 | 0 | 0 | 0 | 0.52 | 14.72 | 711 | 14.48 | 722 |
| 110 | 0 | 0 | 0 | 0.52 | 14.85 | 704 | 14.69 | 712 |
| 120 | 0 | 0 | 0 | 0.52 | 14.99 | 698 | 14.9 | 702 |
| 130 | 0 | 0 | 0 | 0.52 | 15.12 | 692 | 15.11 | 692 |
| 167 | 0 | 0 | 0 | 0.52 | 15.62 | 670 | 15.62 | 670 |
| 212 | 0 | 0 | 0 | 0.52 | 16.21 | 646 | 16.21 | 646 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 20 | 0 | 31.5 | 0 | 2.12 | 22.26 | 3000 | 22.26 | 3000* |
| 0 | 0 | 0 | 0 | 0.52 | 20.55 | 796 | 20.3 | 806 |
| 30 | 0 | 0 | 0 | 0.52 | 21.26 | 770 | 20.99 | 780 |
| 40 | 0 | 0 | 0 | 0.52 | 21.49 | 762 | 21.22 | 771 |
| 50 | 0 | 0 | 0 | 0.52 | 21.72 | 754 | 21.45 | 763 |
| 60 | 0 | 0 | 0 | 0.52 | 21.95 | 746 | 21.67 | 756 |
| 70 | 0 | 0 | 0 | 0.52 | 22.18 | 739 | 21.89 | 748 |
| 80 | 0 | 0 | 0 | 0.52 | 22.4 | 731 | 22.11 | 741 |
| 90 | 0 | 0 | 0 | 0.52 | 22.62 | 724 | 22.33 | 734 |
| 100 | 0 | 0 | 0 | 0.52 | 22.78 | 719 | 22.54 | 727 |
| 110 | 0 | 0 | 0 | 0.52 | 22.93 | 715 | 22.76 | 720 |
| 120 | 0 | 0 | 0 | 0.52 | 23.07 | 710 | 22.97 | 713 |
| 130 | 0 | 0 | 0 | 0.52 | 23.21 | 706 | 23.18 | 707 |
| 167 | 0 | 0 | 0 | 0.52 | 23.73 | 691 | 23.73 | 691 |
| 212 | 0 | 0 | 0 | 0.52 | 24.34 | 674 | 24.34 | 674 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-5 | 1-8 | 1-11 |
| 150.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-5 | 2-10 | 3-3 | 3-9 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-9 | 2-1 | 2-7 | 3-2 | 3-9 | 4-4 | 4-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-1 | 1-3 | 1-6 | 1-8 | 1-10 | 1-11 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-3 | 2-5 | 2-7 | 2-9 |
| 175.00 | 0-11 | 1-1 | 1-4 | 1-8 | 2-1 | 2-6 | 3-0 | 3-3 | 3-6 | 3-9 |
| 200.00 | 1-2 | 1-5 | 1-8 | 2-2 | 2-8 | 3-4 | 3-11 | 4-4 | 4-7 | 4-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 |
| 175.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 200.00 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 |
| 225.00 | 2-8 | 2-11 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 |
| 250.00 | 3-3 | 3-7 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-7 | 5-11 | 6-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-0 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 150.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-3 |
| 175.00 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 |
| 200.00 | 2-4 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 |
| 225.00 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 |
| 250.00 | 3-7 | 4-0 | 4-4 | 4-9 | 5-1 | 5-5 | 5-9 | 6-0 | 6-2 | 6-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 |
| 200.00 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 225.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 |
| 250.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 |
| 275.00 | 5-5 | 5-8 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 |
| 300.00 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 |
| 325.00 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 |
| 350.00 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 |
| 375.00 | 10-1 | 10-6 | 10-10 | 11-2 | 11-7 | 11-11 | 12-3 | 12-7 | 12-11 | 13-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 |
| 175.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 |
| 200.00 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 225.00 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 |
| 250.00 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 |
| 275.00 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 |
| 300.00 | 6-9 | 7-0 | 7-3 | 7-5 | 7-8 | 7-11 | 8-1 | 8-4 | 8-5 | 8-7 |
| 325.00 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 9-11 | 10-1 |
| 350.00 | 9-2 | 9-6 | 9-10 | 10-2 | 10-5 | 10-9 | 11-0 | 11-4 | 11-6 | 11-8 |
| 375.00 | 10-6 | 10-11 | 11-3 | 11-8 | 12-0 | 12-4 | 12-8 | 13-0 | 13-3 | 13-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 |
| 225.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 250.00 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 |
| 275.00 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 |
| 300.00 | 7-2 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 |
| 325.00 | 8-5 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-8 |
| 350.00 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 |
| 375.00 | 11-2 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 | 12-4 | 12-6 | 12-9 | 12-11 |
| 400.00 | 12-8 | 12-11 | 13-2 | 13-5 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 | 14-8 |
| 425.00 | 14-4 | 14-7 | 14-10 | 15-1 | 15-5 | 15-8 | 15-10 | 16-1 | 16-4 | 16-7 |
| 450.00 | 16-1 | 16-5 | 16-8 | 16-11 | 17-3 | 17-6 | 17-10 | 18-1 | 18-4 | 18-7 |
| 475.00 | 17-11 | 18-3 | 18-7 | 18-11 | 19-3 | 19-6 | 19-10 | 20-2 | 20-5 | 20-9 |
| 500.00 | 19-10 | 20-3 | 20-7 | 20-11 | 21-4 | 21-8 | 22-0 | 22-4 | 22-8 | 23-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-8 |
| 225.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 |
| 250.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 275.00 | 6-1 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 | 6-11 | 6-11 | 7-0 |
| 300.00 | 7-3 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 |
| 325.00 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-7 | 9-8 | 9-10 |
| 350.00 | 9-11 | 10-1 | 10-3 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-3 | 11-4 |
| 375.00 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-10 | 12-11 | 13-1 |
| 400.00 | 13-0 | 13-2 | 13-5 | 13-8 | 13-11 | 14-1 | 14-4 | 14-7 | 14-9 | 14-10 |
| 425.00 | 14-8 | 14-11 | 15-2 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-7 | 16-9 |
| 450.00 | 16-5 | 16-9 | 17-0 | 17-4 | 17-7 | 17-11 | 18-2 | 18-5 | 18-8 | 18-10 |
| 475.00 | 18-4 | 18-8 | 19-0 | 19-3 | 19-7 | 19-11 | 20-3 | 20-7 | 20-9 | 21-0 |
| 500.00 | 20-3 | 20-8 | 21-0 | 21-5 | 21-9 | 22-1 | 22-5 | 22-9 | 23-0 | 23-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS



OH811.359

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 |
| 275.00 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 |
| 300.00 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 |
| 325.00 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 |
| 350.00 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 | 10-9 | 10-10 | 10-11 | 11-0 | 11-2 |
| 375.00 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 | 12-7 | 12-8 | 12-9 |
| 400.00 | 13-3 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-2 | 14-3 | 14-5 | 14-7 |
| 425.00 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-1 | 16-3 | 16-5 |
| 450.00 | 16-10 | 17-0 | 17-2 | 17-4 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 |
| 475.00 | 18-9 | 18-11 | 19-2 | 19-4 | 19-7 | 19-9 | 19-11 | 20-2 | 20-4 | 20-6 |
| 500.00 | 20-9 | 21-0 | 21-3 | 21-5 | 21-8 | 21-11 | 22-1 | 22-4 | 22-7 | 22-9 |
| 525.00 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-5 | 24-7 | 24-10 | 25-1 |
| 550.00 | 25-2 | 25-5 | 25-8 | 26-0 | 26-3 | 26-6 | 26-9 | 27-0 | 27-4 | 27-7 |
| 575.00 | 27-6 | 27-9 | 28-1 | 28-5 | 28-8 | 29-0 | 29-3 | 29-7 | 29-10 | 30-1 |
| 600.00 | 29-11 | 30-3 | 30-7 | 30-11 | 31-3 | 31-7 | 31-10 | 32-2 | 32-6 | 32-10 |
| 625.00 | 32-6 | 32-10 | 33-2 | 33-7 | 33-11 | 34-3 | 34-7 | 34-11 | 35-3 | 35-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 |
| 275.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 |
| 300.00 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 |
| 325.00 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-7 | 9-7 | 9-8 |
| 350.00 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-3 |
| 375.00 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-6 | 12-7 | 12-9 | 12-10 | 12-11 |
| 400.00 | 13-5 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 | 14-4 | 14-6 | 14-7 | 14-8 |
| 425.00 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 | 16-5 | 16-7 |
| 450.00 | 17-0 | 17-3 | 17-5 | 17-7 | 17-9 | 17-11 | 18-2 | 18-4 | 18-5 | 18-7 |
| 475.00 | 19-0 | 19-2 | 19-5 | 19-7 | 19-10 | 20-0 | 20-3 | 20-5 | 20-7 | 20-8 |
| 500.00 | 21-0 | 21-3 | 21-6 | 21-9 | 21-11 | 22-2 | 22-5 | 22-7 | 22-9 | 22-11 |
| 525.00 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-5 | 24-8 | 24-11 | 25-2 | 25-3 |
| 550.00 | 25-5 | 25-9 | 26-0 | 26-4 | 26-7 | 26-10 | 27-1 | 27-5 | 27-7 | 27-9 |
| 575.00 | 27-10 | 28-2 | 28-5 | 28-9 | 29-1 | 29-4 | 29-8 | 29-11 | 30-2 | 30-4 |
| 600.00 | 30-4 | 30-8 | 31-0 | 31-4 | 31-8 | 32-0 | 32-4 | 32-7 | 32-10 | 33-1 |
| 625.00 | 32-11 | 33-3 | 33-8 | 34-0 | 34-4 | 34-8 | 35-1 | 35-5 | 35-8 | 35-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 636 - 24/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION
1000 LB TENSION ---------- 812.3
1500 LB TENSION ---------- 812.11
2000 LB TENSION ---------- 812.19
2500 LB TENSION ---------- 812.27
3000 LB TENSION ---------- 812.35

G.O. 95 HEAVY LOADING CONDITION
1000 LB TENSION ---------- 812.43
1500 LB TENSION ---------- 812.51
2000 LB TENSION ---------- 812.59
2500 LB TENSION ---------- 812.67
3000 LB TENSION ---------- 812.75

SDG&E EXTRA HEAVY LOADING CONDITION
1000 LB TENSION ---------- 812.83
1500 LB TENSION ---------- 812.89
2000 LB TENSION ---------- 812.97
2500 LB TENSION ---------- 812.105
3000 LB TENSION ---------- 812.113

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 812.121
1500 LB TENSION ---------- 812.129
2000 LB TENSION ---------- 812.137
2500 LB TENSION ---------- 812.145
3000 LB TENSION ---------- 812.153

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 812.161
1500 LB TENSION ---------- 812.169
2000 LB TENSION ---------- 812.177
2500 LB TENSION ---------- 812.185
3000 LB TENSION ---------- 812.193

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 812.201
1500 LB TENSION ---------- 812.209
2000 LB TENSION ---------- 812.217
2500 LB TENSION ---------- 812.225
3000 LB TENSION ---------- 812.233


TABLE OF CONTENTS CONTINUED ON NEXT PAGE

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

636 - 24/7 ACSR/AW TABLE OF CONTENTS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 636 - 24/7 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 812.241
1500 LB TENSION ---------- 812.249
2000 LB TENSION ---------- 812.257
2500 LB TENSION ---------- 812.265
3000 LB TENSION ---------- 812.273

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 812.281
1500 LB TENSION ---------- 812.289
2000 LB TENSION ---------- 812.297
2500 LB TENSION ---------- 812.305
3000 LB TENSION ---------- 812.313

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 812.321
1500 LB TENSION ---------- 812.329
2000 LB TENSION ---------- 812.337
2500 LB TENSION ---------- 812.345
3000 LB TENSION ---------- 812.353


TABLE OF CONTENTS

**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 1.28 | 995 | 1.28 | 1000* |
| 25 | 0 | 0 | 0 | 0.785 | 1.23 | 796 | 1.22 | 804 |
| 30 | 0 | 0 | 0 | 0.785 | 1.3 | 753 | 1.29 | 760 |
| 40 | 0 | 0 | 0 | 0.785 | 1.44 | 682 | 1.42 | 689 |
| 50 | 0 | 0 | 0 | 0.785 | 1.57 | 627 | 1.55 | 634 |
| 60 | 0 | 0 | 0 | 0.785 | 1.68 | 583 | 1.67 | 589 |
| 70 | 0 | 0 | 0 | 0.785 | 1.8 | 547 | 1.78 | 552 |
| 80 | 0 | 0 | 0 | 0.785 | 1.9 | 516 | 1.89 | 521 |
| 90 | 0 | 0 | 0 | 0.785 | 2.01 | 490 | 1.99 | 494 |
| 100 | 0 | 0 | 0 | 0.785 | 2.07 | 474 | 2.07 | 474 |
| 110 | 0 | 0 | 0 | 0.785 | 2.13 | 461 | 2.13 | 461 |
| 120 | 0 | 0 | 0 | 0.785 | 2.19 | 449 | 2.19 | 449 |
| 130 | 0 | 0 | 0 | 0.785 | 2.24 | 438 | 2.24 | 438 |
| 167 | 0 | 0 | 0 | 0.785 | 2.44 | 403 | 2.44 | 403 |
| 212 | 0 | 0 | 0 | 0.785 | 2.67 | 369 | 2.67 | 369 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 5.15 | 993 | 5.11 | 1000* |
| 25 | 0 | 0 | 0 | 0.785 | 5.1 | 772 | 5.05 | 779 |
| 30 | 0 | 0 | 0 | 0.785 | 5.17 | 761 | 5.13 | 767 |
| 40 | 0 | 0 | 0 | 0.785 | 5.33 | 739 | 5.28 | 745 |
| 50 | 0 | 0 | 0 | 0.785 | 5.48 | 719 | 5.43 | 725 |
| 60 | 0 | 0 | 0 | 0.785 | 5.62 | 700 | 5.58 | 706 |
| 70 | 0 | 0 | 0 | 0.785 | 5.76 | 683 | 5.72 | 689 |
| 80 | 0 | 0 | 0 | 0.785 | 5.9 | 667 | 5.86 | 673 |
| 90 | 0 | 0 | 0 | 0.785 | 6.04 | 652 | 5.99 | 657 |
| 100 | 0 | 0 | 0 | 0.785 | 6.17 | 638 | 6.12 | 643 |
| 110 | 0 | 0 | 0 | 0.785 | 6.26 | 630 | 6.26 | 630 |
| 120 | 0 | 0 | 0 | 0.785 | 6.34 | 622 | 6.34 | 622 |
| 130 | 0 | 0 | 0 | 0.785 | 6.42 | 614 | 6.42 | 614 |
| 167 | 0 | 0 | 0 | 0.785 | 6.71 | 588 | 6.71 | 588 |
| 212 | 0 | 0 | 0 | 0.785 | 7.05 | 560 | 7.05 | 560 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 11.59 | 996 | 11.54 | 1000* |
| 25 | 0 | 0 | 0 | 0.785 | 11.53 | 770 | 11.48 | 774 |
| 30 | 0 | 0 | 0 | 0.785 | 11.61 | 765 | 11.56 | 768 |
| 40 | 0 | 0 | 0 | 0.785 | 11.77 | 755 | 11.72 | 758 |
| 50 | 0 | 0 | 0 | 0.785 | 11.93 | 745 | 11.87 | 748 |
| 60 | 0 | 0 | 0 | 0.785 | 12.08 | 736 | 12.03 | 739 |
| 70 | 0 | 0 | 0 | 0.785 | 12.23 | 727 | 12.18 | 730 |
| 80 | 0 | 0 | 0 | 0.785 | 12.38 | 718 | 12.33 | 721 |
| 90 | 0 | 0 | 0 | 0.785 | 12.53 | 710 | 12.47 | 713 |
| 100 | 0 | 0 | 0 | 0.785 | 12.68 | 701 | 12.62 | 705 |
| 110 | 0 | 0 | 0 | 0.785 | 12.8 | 695 | 12.76 | 697 |
| 120 | 0 | 0 | 0 | 0.785 | 12.89 | 690 | 12.89 | 690 |
| 130 | 0 | 0 | 0 | 0.785 | 12.98 | 685 | 12.98 | 685 |
| 167 | 0 | 0 | 0 | 0.785 | 13.32 | 668 | 13.32 | 668 |
| 212 | 0 | 0 | 0 | 0.785 | 13.71 | 650 | 13.71 | 650 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 20.67 | 998 | 20.62 | 1000* |
| 25 | 0 | 0 | 0 | 0.785 | 20.61 | 770 | 20.56 | 772 |
| 30 | 0 | 0 | 0 | 0.785 | 20.69 | 767 | 20.64 | 769 |
| 40 | 0 | 0 | 0 | 0.785 | 20.85 | 761 | 20.79 | 763 |
| 50 | 0 | 0 | 0 | 0.785 | 21.01 | 756 | 20.95 | 758 |
| 60 | 0 | 0 | 0 | 0.785 | 21.17 | 750 | 21.11 | 752 |
| 70 | 0 | 0 | 0 | 0.785 | 21.32 | 745 | 21.26 | 747 |
| 80 | 0 | 0 | 0 | 0.785 | 21.48 | 739 | 21.42 | 741 |
| 90 | 0 | 0 | 0 | 0.785 | 21.63 | 734 | 21.57 | 736 |
| 100 | 0 | 0 | 0 | 0.785 | 21.79 | 729 | 21.72 | 731 |
| 110 | 0 | 0 | 0 | 0.785 | 21.92 | 725 | 21.87 | 726 |
| 120 | 0 | 0 | 0 | 0.785 | 22.02 | 722 | 22.02 | 722 |
| 130 | 0 | 0 | 0 | 0.785 | 22.12 | 719 | 22.12 | 719 |
| 167 | 0 | 0 | 0 | 0.785 | 22.47 | 707 | 22.47 | 707 |
| 212 | 0 | 0 | 0 | 0.785 | 22.9 | 695 | 22.9 | 695 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 32.46 | 998 | 32.41 | 1000* |
| 25 | 0 | 0 | 0 | 0.785 | 32.41 | 770 | 32.35 | 771 |
| 30 | 0 | 0 | 0 | 0.785 | 32.49 | 768 | 32.43 | 769 |
| 40 | 0 | 0 | 0 | 0.785 | 32.65 | 764 | 32.59 | 766 |
| 50 | 0 | 0 | 0 | 0.785 | 32.81 | 761 | 32.75 | 762 |
| 60 | 0 | 0 | 0 | 0.785 | 32.97 | 757 | 32.91 | 758 |
| 70 | 0 | 0 | 0 | 0.785 | 33.13 | 754 | 33.06 | 755 |
| 80 | 0 | 0 | 0 | 0.785 | 33.28 | 750 | 33.22 | 752 |
| 90 | 0 | 0 | 0 | 0.785 | 33.44 | 747 | 33.37 | 748 |
| 100 | 0 | 0 | 0 | 0.785 | 33.6 | 743 | 33.53 | 745 |
| 110 | 0 | 0 | 0 | 0.785 | 33.74 | 740 | 33.68 | 742 |
| 120 | 0 | 0 | 0 | 0.785 | 33.84 | 738 | 33.84 | 738 |
| 130 | 0 | 0 | 0 | 0.785 | 33.94 | 736 | 33.94 | 736 |
| 167 | 0 | 0 | 0 | 0.785 | 34.31 | 728 | 34.31 | 728 |
| 212 | 0 | 0 | 0 | 0.785 | 34.75 | 720 | 34.75 | 720 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-6 |
| 125.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 |
| 150.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 |
| 175.00 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-7 | 7-10 |
| 200.00 | 6-7 | 7-1 | 7-7 | 8-0 | 8-5 | 8-9 | 9-2 | 9-6 | 9-11 | 10-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-6 |
| 125.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 |
| 150.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 |
| 175.00 | 5-1 | 5-5 | 5-10 | 6-2 | 6-5 | 6-9 | 7-1 | 7-4 | 7-7 | 7-10 |
| 200.00 | 6-8 | 7-1 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-7 | 9-11 | 10-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 |
| 125.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 |
| 175.00 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 200.00 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 |
| 225.00 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 |
| 250.00 | 10-10 | 11-0 | 11-2 | 11-4 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 |
| 125.00 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 |
| 175.00 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 200.00 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 8-0 |
| 225.00 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 |
| 250.00 | 10-10 | 11-0 | 11-2 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 |
| 175.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 |
| 200.00 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 |
| 225.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-5 |
| 250.00 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 |
| 275.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 |
| 300.00 | 15-9 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 |
| 325.00 | 18-6 | 18-8 | 18-9 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 | 19-8 | 19-9 |
| 350.00 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 22-11 |
| 375.00 | 24-8 | 24-10 | 25-1 | 25-3 | 25-5 | 25-7 | 25-10 | 26-0 | 26-2 | 26-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 |
| 175.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 |
| 200.00 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 |
| 225.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 250.00 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 |
| 275.00 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 |
| 300.00 | 15-9 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 |
| 325.00 | 18-6 | 18-8 | 18-10 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 | 19-8 | 19-10 |
| 350.00 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 23-0 |
| 375.00 | 24-8 | 24-10 | 25-1 | 25-3 | 25-5 | 25-8 | 25-10 | 26-0 | 26-2 | 26-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.8

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-1 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 |
| 225.00 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 |
| 250.00 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 |
| 275.00 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 |
| 300.00 | 15-11 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 |
| 325.00 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 |
| 350.00 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-3 | 22-4 | 22-5 | 22-6 |
| 375.00 | 24-10 | 25-0 | 25-1 | 25-2 | 25-4 | 25-5 | 25-6 | 25-8 | 25-9 | 25-10 |
| 400.00 | 28-4 | 28-5 | 28-7 | 28-8 | 28-10 | 28-11 | 29-1 | 29-2 | 29-4 | 29-5 |
| 425.00 | 32-0 | 32-2 | 32-3 | 32-5 | 32-7 | 32-8 | 32-10 | 33-0 | 33-1 | 33-3 |
| 450.00 | 35-11 | 36-1 | 36-3 | 36-5 | 36-6 | 36-8 | 36-10 | 37-0 | 37-2 | 37-4 |
| 475.00 | 40-0 | 40-3 | 40-5 | 40-7 | 40-9 | 40-11 | 41-1 | 41-3 | 41-5 | 41-7 |
| 500.00 | 44-5 | 44-7 | 44-10 | 45-0 | 45-2 | 45-5 | 45-7 | 45-9 | 46-0 | 46-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-1 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 |
| 225.00 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 |
| 250.00 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 |
| 275.00 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 |
| 300.00 | 15-11 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 |
| 325.00 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 |
| 350.00 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 |
| 375.00 | 24-10 | 25-0 | 25-1 | 25-2 | 25-4 | 25-5 | 25-6 | 25-8 | 25-9 | 25-10 |
| 400.00 | 28-4 | 28-5 | 28-7 | 28-8 | 28-10 | 28-11 | 29-1 | 29-2 | 29-4 | 29-5 |
| 425.00 | 32-0 | 32-2 | 32-3 | 32-5 | 32-7 | 32-9 | 32-10 | 33-0 | 33-2 | 33-3 |
| 450.00 | 35-11 | 36-1 | 36-3 | 36-5 | 36-7 | 36-8 | 36-10 | 37-0 | 37-2 | 37-4 |
| 475.00 | 40-1 | 40-3 | 40-5 | 40-7 | 40-9 | 40-11 | 41-1 | 41-3 | 41-6 | 41-8 |
| 500.00 | 44-5 | 44-7 | 44-10 | 45-0 | 45-3 | 45-5 | 45-7 | 45-10 | 46-0 | 46-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



OH812.9

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 |
| 275.00 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 |
| 300.00 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 |
| 325.00 | 18-10 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 |
| 350.00 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 |
| 375.00 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 |
| 400.00 | 28-7 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 |
| 425.00 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 |
| 450.00 | 36-3 | 36-4 | 36-5 | 36-6 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-2 |
| 475.00 | 40-5 | 40-6 | 40-8 | 40-9 | 40-10 | 41-0 | 41-1 | 41-2 | 41-4 | 41-5 |
| 500.00 | 44-10 | 44-11 | 45-1 | 45-2 | 45-4 | 45-5 | 45-7 | 45-8 | 45-10 | 45-11 |
| 525.00 | 49-6 | 49-7 | 49-9 | 49-11 | 50-0 | 50-2 | 50-4 | 50-5 | 50-7 | 50-9 |
| 550.00 | 54-4 | 54-6 | 54-8 | 54-10 | 55-0 | 55-1 | 55-3 | 55-5 | 55-7 | 55-9 |
| 575.00 | 59-6 | 59-8 | 59-10 | 60-0 | 60-2 | 60-4 | 60-6 | 60-8 | 60-10 | 61-0 |
| 600.00 | 64-10 | 65-0 | 65-3 | 65-5 | 65-7 | 65-9 | 65-11 | 66-1 | 66-4 | 66-6 |
| 625.00 | 70-6 | 70-8 | 70-10 | 71-1 | 71-3 | 71-5 | 71-8 | 71-10 | 72-0 | 72-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 |
| 275.00 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 |
| 300.00 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 |
| 325.00 | 18-10 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-2 | 19-2 | 19-3 | 19-4 |
| 350.00 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 |
| 375.00 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 |
| 400.00 | 28-7 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 |
| 425.00 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 |
| 450.00 | 36-3 | 36-4 | 36-5 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-1 | 37-2 |
| 475.00 | 40-5 | 40-6 | 40-8 | 40-9 | 40-10 | 41-0 | 41-1 | 41-3 | 41-4 | 41-5 |
| 500.00 | 44-10 | 45-0 | 45-1 | 45-3 | 45-4 | 45-6 | 45-7 | 45-9 | 45-10 | 45-11 |
| 525.00 | 49-6 | 49-7 | 49-9 | 49-11 | 50-0 | 50-2 | 50-4 | 50-5 | 50-7 | 50-9 |
| 550.00 | 54-4 | 54-6 | 54-8 | 54-10 | 55-0 | 55-2 | 55-3 | 55-5 | 55-7 | 55-9 |
| 575.00 | 59-6 | 59-8 | 59-10 | 60-0 | 60-2 | 60-4 | 60-6 | 60-8 | 60-10 | 61-0 |
| 600.00 | 64-10 | 65-1 | 65-3 | 65-5 | 65-7 | 65-9 | 65-11 | 66-2 | 66-4 | 66-6 |
| 625.00 | 70-6 | 70-8 | 70-10 | 71-1 | 71-3 | 71-6 | 71-8 | 71-10 | 72-1 | 72-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 0.88 | 1446 | 0.85 | 1500* |
| 25 | 0 | 0 | 0 | 0.785 | 0.8 | 1227 | 0.76 | 1291 |
| 30 | 0 | 0 | 0 | 0.785 | 0.88 | 1114 | 0.84 | 1173 |
| 40 | 0 | 0 | 0 | 0.785 | 1.04 | 943 | 0.99 | 990 |
| 50 | 0 | 0 | 0 | 0.785 | 1.19 | 823 | 1.14 | 860 |
| 60 | 0 | 0 | 0 | 0.785 | 1.33 | 736 | 1.28 | 765 |
| 70 | 0 | 0 | 0 | 0.785 | 1.47 | 669 | 1.42 | 692 |
| 80 | 0 | 0 | 0 | 0.785 | 1.59 | 617 | 1.54 | 636 |
| 90 | 0 | 0 | 0 | 0.785 | 1.71 | 575 | 1.66 | 591 |
| 100 | 0 | 0 | 0 | 0.785 | 1.79 | 550 | 1.78 | 553 |
| 110 | 0 | 0 | 0 | 0.785 | 1.85 | 531 | 1.85 | 531 |
| 120 | 0 | 0 | 0 | 0.785 | 1.91 | 514 | 1.91 | 514 |
| 130 | 0 | 0 | 0 | 0.785 | 1.97 | 498 | 1.97 | 498 |
| 167 | 0 | 0 | 0 | 0.785 | 2.19 | 449 | 2.19 | 449 |
| 212 | 0 | 0 | 0 | 0.785 | 2.43 | 404 | 2.43 | 404 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 3.52 | 1451 | 3.4 | 1500* |
| 25 | 0 | 0 | 0 | 0.785 | 3.41 | 1152 | 3.28 | 1199 |
| 30 | 0 | 0 | 0 | 0.785 | 3.52 | 1117 | 3.39 | 1161 |
| 40 | 0 | 0 | 0 | 0.785 | 3.73 | 1055 | 3.59 | 1094 |
| 50 | 0 | 0 | 0 | 0.785 | 3.93 | 1001 | 3.79 | 1036 |
| 60 | 0 | 0 | 0 | 0.785 | 4.12 | 955 | 3.99 | 986 |
| 70 | 0 | 0 | 0 | 0.785 | 4.3 | 914 | 4.17 | 942 |
| 80 | 0 | 0 | 0 | 0.785 | 4.48 | 878 | 4.35 | 903 |
| 90 | 0 | 0 | 0 | 0.785 | 4.65 | 845 | 4.53 | 869 |
| 100 | 0 | 0 | 0 | 0.785 | 4.82 | 816 | 4.7 | 837 |
| 110 | 0 | 0 | 0 | 0.785 | 4.95 | 795 | 4.86 | 809 |
| 120 | 0 | 0 | 0 | 0.785 | 5.04 | 780 | 5.02 | 784 |
| 130 | 0 | 0 | 0 | 0.785 | 5.14 | 765 | 5.14 | 765 |
| 167 | 0 | 0 | 0 | 0.785 | 5.48 | 718 | 5.48 | 718 |
| 212 | 0 | 0 | 0 | 0.785 | 5.88 | 670 | 5.88 | 670 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 7.83 | 1470 | 7.67 | 1500* |
| 25 | 0 | 0 | 0 | 0.785 | 7.71 | 1148 | 7.54 | 1175 |
| 30 | 0 | 0 | 0 | 0.785 | 7.83 | 1132 | 7.65 | 1157 |
| 40 | 0 | 0 | 0 | 0.785 | 8.05 | 1100 | 7.87 | 1125 |
| 50 | 0 | 0 | 0 | 0.785 | 8.27 | 1071 | 8.09 | 1094 |
| 60 | 0 | 0 | 0 | 0.785 | 8.48 | 1044 | 8.31 | 1066 |
| 70 | 0 | 0 | 0 | 0.785 | 8.69 | 1019 | 8.52 | 1040 |
| 80 | 0 | 0 | 0 | 0.785 | 8.9 | 996 | 8.72 | 1016 |
| 90 | 0 | 0 | 0 | 0.785 | 9.1 | 974 | 8.93 | 993 |
| 100 | 0 | 0 | 0 | 0.785 | 9.29 | 954 | 9.12 | 971 |
| 110 | 0 | 0 | 0 | 0.785 | 9.49 | 934 | 9.32 | 951 |
| 120 | 0 | 0 | 0 | 0.785 | 9.62 | 922 | 9.51 | 932 |
| 130 | 0 | 0 | 0 | 0.785 | 9.74 | 911 | 9.7 | 915 |
| 167 | 0 | 0 | 0 | 0.785 | 10.16 | 873 | 10.16 | 873 |
| 212 | 0 | 0 | 0 | 0.785 | 10.66 | 833 | 10.66 | 833 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 13.84 | 1481 | 13.66 | 1500* |
| 25 | 0 | 0 | 0 | 0.785 | 13.72 | 1150 | 13.53 | 1166 |
| 30 | 0 | 0 | 0 | 0.785 | 13.84 | 1140 | 13.64 | 1156 |
| 40 | 0 | 0 | 0 | 0.785 | 14.07 | 1121 | 13.87 | 1137 |
| 50 | 0 | 0 | 0 | 0.785 | 14.3 | 1104 | 14.1 | 1119 |
| 60 | 0 | 0 | 0 | 0.785 | 14.52 | 1087 | 14.33 | 1101 |
| 70 | 0 | 0 | 0 | 0.785 | 14.75 | 1071 | 14.55 | 1085 |
| 80 | 0 | 0 | 0 | 0.785 | 14.96 | 1055 | 14.77 | 1069 |
| 90 | 0 | 0 | 0 | 0.785 | 15.18 | 1040 | 14.98 | 1054 |
| 100 | 0 | 0 | 0 | 0.785 | 15.39 | 1026 | 15.2 | 1039 |
| 110 | 0 | 0 | 0 | 0.785 | 15.6 | 1012 | 15.41 | 1025 |
| 120 | 0 | 0 | 0 | 0.785 | 15.79 | 1001 | 15.61 | 1012 |
| 130 | 0 | 0 | 0 | 0.785 | 15.92 | 993 | 15.82 | 999 |
| 167 | 0 | 0 | 0 | 0.785 | 16.4 | 964 | 16.4 | 964 |
| 212 | 0 | 0 | 0 | 0.785 | 16.95 | 933 | 16.95 | 933 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 21.6 | 1487 | 21.41 | 1500* |
| 25 | 0 | 0 | 0 | 0.785 | 21.47 | 1151 | 21.27 | 1162 |
| 30 | 0 | 0 | 0 | 0.785 | 21.59 | 1145 | 21.39 | 1155 |
| 40 | 0 | 0 | 0 | 0.785 | 21.83 | 1132 | 21.62 | 1143 |
| 50 | 0 | 0 | 0 | 0.785 | 22.06 | 1121 | 21.85 | 1131 |
| 60 | 0 | 0 | 0 | 0.785 | 22.29 | 1109 | 22.08 | 1120 |
| 70 | 0 | 0 | 0 | 0.785 | 22.52 | 1098 | 22.31 | 1108 |
| 80 | 0 | 0 | 0 | 0.785 | 22.75 | 1087 | 22.54 | 1097 |
| 90 | 0 | 0 | 0 | 0.785 | 22.97 | 1077 | 22.76 | 1087 |
| 100 | 0 | 0 | 0 | 0.785 | 23.19 | 1067 | 22.98 | 1076 |
| 110 | 0 | 0 | 0 | 0.785 | 23.42 | 1057 | 23.2 | 1066 |
| 120 | 0 | 0 | 0 | 0.785 | 23.63 | 1047 | 23.42 | 1057 |
| 130 | 0 | 0 | 0 | 0.785 | 23.77 | 1041 | 23.64 | 1047 |
| 167 | 0 | 0 | 0 | 0.785 | 24.28 | 1020 | 24.28 | 1020 |
| 212 | 0 | 0 | 0 | 0.785 | 24.88 | 996 | 24.88 | 996 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 |
| 125.00 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 150.00 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 |
| 175.00 | 3-2 | 3-7 | 4-1 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 |
| 200.00 | 4-1 | 4-9 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 100.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 125.00 | 1-7 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 |
| 150.00 | 2-4 | 2-8 | 3-0 | 3-4 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 |
| 175.00 | 3-2 | 3-8 | 4-1 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-4 | 6-7 |
| 200.00 | 4-2 | 4-9 | 5-5 | 5-11 | 6-6 | 6-11 | 7-5 | 7-10 | 8-3 | 8-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.14

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 |
| 125.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 |
| 150.00 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 175.00 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 |
| 200.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 5-11 |
| 225.00 | 5-8 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 |
| 250.00 | 7-0 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 125.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 150.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 175.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 |
| 200.00 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 |
| 225.00 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 |
| 250.00 | 7-2 | 7-5 | 7-8 | 7-11 | 8-3 | 8-6 | 8-8 | 8-11 | 9-2 | 9-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 |
| 175.00 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 |
| 200.00 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 |
| 225.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 250.00 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 |
| 275.00 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 |
| 300.00 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 |
| 325.00 | 12-2 | 12-4 | 12-7 | 12-9 | 13-0 | 13-2 | 13-5 | 13-7 | 13-9 | 14-0 |
| 350.00 | 14-1 | 14-4 | 14-7 | 14-10 | 15-1 | 15-4 | 15-6 | 15-9 | 16-0 | 16-2 |
| 375.00 | 16-2 | 16-5 | 16-9 | 17-0 | 17-3 | 17-7 | 17-10 | 18-1 | 18-4 | 18-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 |
| 175.00 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 |
| 200.00 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 225.00 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 |
| 250.00 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 |
| 275.00 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 |
| 300.00 | 10-5 | 10-7 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 |
| 325.00 | 12-3 | 12-5 | 12-8 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 |
| 350.00 | 14-2 | 14-5 | 14-8 | 14-11 | 15-2 | 15-5 | 15-8 | 15-11 | 16-1 | 16-4 |
| 375.00 | 16-4 | 16-7 | 16-11 | 17-2 | 17-5 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 |
| 225.00 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 |
| 250.00 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-10 |
| 275.00 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 300.00 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 | 10-11 | 11-1 | 11-2 | 11-3 | 11-4 |
| 325.00 | 12-3 | 12-4 | 12-6 | 12-7 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-4 |
| 350.00 | 14-2 | 14-4 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-2 | 15-4 | 15-5 |
| 375.00 | 16-4 | 16-6 | 16-8 | 16-10 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 | 17-9 |
| 400.00 | 18-7 | 18-9 | 18-11 | 19-1 | 19-4 | 19-6 | 19-8 | 19-10 | 20-0 | 20-2 |
| 425.00 | 21-0 | 21-2 | 21-5 | 21-7 | 21-10 | 22-0 | 22-2 | 22-5 | 22-7 | 22-10 |
| 450.00 | 23-6 | 23-9 | 24-0 | 24-3 | 24-5 | 24-8 | 24-11 | 25-2 | 25-4 | 25-7 |
| 475.00 | 26-3 | 26-6 | 26-9 | 27-0 | 27-3 | 27-6 | 27-9 | 28-0 | 28-3 | 28-6 |
| 500.00 | 29-1 | 29-4 | 29-8 | 29-11 | 30-3 | 30-6 | 30-9 | 31-1 | 31-4 | 31-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 |
| 225.00 | 5-11 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 |
| 250.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 |
| 275.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 |
| 300.00 | 10-6 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 |
| 325.00 | 12-4 | 12-5 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 | 13-2 | 13-3 | 13-5 |
| 350.00 | 14-3 | 14-5 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-3 | 15-5 | 15-6 |
| 375.00 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 | 17-4 | 17-6 | 17-8 | 17-10 |
| 400.00 | 18-8 | 18-10 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-4 |
| 425.00 | 21-1 | 21-4 | 21-6 | 21-9 | 21-11 | 22-1 | 22-4 | 22-6 | 22-9 | 22-11 |
| 450.00 | 23-8 | 23-11 | 24-1 | 24-4 | 24-7 | 24-10 | 25-0 | 25-3 | 25-6 | 25-9 |
| 475.00 | 26-4 | 26-7 | 26-11 | 27-2 | 27-5 | 27-8 | 27-11 | 28-2 | 28-5 | 28-8 |
| 500.00 | 29-3 | 29-6 | 29-10 | 30-1 | 30-5 | 30-8 | 30-11 | 31-3 | 31-6 | 31-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 |
| 275.00 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 |
| 300.00 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 |
| 325.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 13-0 |
| 350.00 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 |
| 375.00 | 16-5 | 16-6 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 |
| 400.00 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 | 19-3 | 19-5 | 19-6 | 19-7 | 19-9 |
| 425.00 | 21-1 | 21-3 | 21-4 | 21-6 | 21-8 | 21-9 | 21-11 | 22-0 | 22-2 | 22-3 |
| 450.00 | 23-8 | 23-10 | 24-0 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-10 | 25-0 |
| 475.00 | 26-5 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-8 | 27-10 |
| 500.00 | 29-3 | 29-5 | 29-7 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-9 | 30-11 |
| 525.00 | 32-3 | 32-6 | 32-8 | 32-11 | 33-1 | 33-3 | 33-6 | 33-8 | 33-11 | 34-1 |
| 550.00 | 35-5 | 35-8 | 35-11 | 36-1 | 36-4 | 36-7 | 36-9 | 37-0 | 37-2 | 37-5 |
| 575.00 | 38-9 | 39-0 | 39-3 | 39-6 | 39-9 | 40-0 | 40-2 | 40-5 | 40-8 | 40-11 |
| 600.00 | 42-2 | 42-6 | 42-9 | 43-0 | 43-3 | 43-6 | 43-10 | 44-1 | 44-4 | 44-7 |
| 625.00 | 45-10 | 46-1 | 46-5 | 46-8 | 47-0 | 47-3 | 47-7 | 47-10 | 48-1 | 48-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 |
| 275.00 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 |
| 300.00 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 325.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 |
| 350.00 | 14-4 | 14-5 | 14-6 | 14-7 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 |
| 375.00 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-4 | 17-5 |
| 400.00 | 18-9 | 18-11 | 19-0 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 | 19-8 | 19-10 |
| 425.00 | 21-2 | 21-4 | 21-5 | 21-7 | 21-9 | 21-10 | 22-0 | 22-1 | 22-3 | 22-4 |
| 450.00 | 23-9 | 23-11 | 24-1 | 24-3 | 24-4 | 24-6 | 24-8 | 24-10 | 24-11 | 25-1 |
| 475.00 | 26-6 | 26-8 | 26-10 | 27-0 | 27-2 | 27-4 | 27-6 | 27-8 | 27-10 | 28-0 |
| 500.00 | 29-4 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 | 30-6 | 30-8 | 30-10 | 31-0 |
| 525.00 | 32-5 | 32-7 | 32-10 | 33-0 | 33-2 | 33-5 | 33-7 | 33-10 | 34-0 | 34-2 |
| 550.00 | 35-7 | 35-9 | 36-0 | 36-3 | 36-6 | 36-8 | 36-11 | 37-1 | 37-4 | 37-7 |
| 575.00 | 38-11 | 39-2 | 39-5 | 39-8 | 39-10 | 40-1 | 40-4 | 40-7 | 40-10 | 41-1 |
| 600.00 | 42-4 | 42-8 | 42-11 | 43-2 | 43-5 | 43-8 | 44-0 | 44-3 | 44-6 | 44-9 |
| 625.00 | 46-0 | 46-3 | 46-7 | 46-10 | 47-2 | 47-5 | 47-9 | 48-0 | 48-4 | 48-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 0.68 | 1873 | 0.64 | 2000* |
| 25 | 0 | 0 | 0 | 0.785 | 0.58 | 1679 | 0.54 | 1831 |
| 30 | 0 | 0 | 0 | 0.785 | 0.66 | 1493 | 0.6 | 1641 |
| 40 | 0 | 0 | 0 | 0.785 | 0.82 | 1204 | 0.74 | 1327 |
| 50 | 0 | 0 | 0 | 0.785 | 0.98 | 1005 | 0.89 | 1098 |
| 60 | 0 | 0 | 0 | 0.785 | 1.13 | 867 | 1.05 | 937 |
| 70 | 0 | 0 | 0 | 0.785 | 1.28 | 768 | 1.2 | 821 |
| 80 | 0 | 0 | 0 | 0.785 | 1.41 | 694 | 1.34 | 735 |
| 90 | 0 | 0 | 0 | 0.785 | 1.54 | 637 | 1.47 | 670 |
| 100 | 0 | 0 | 0 | 0.785 | 1.62 | 606 | 1.59 | 618 |
| 110 | 0 | 0 | 0 | 0.785 | 1.69 | 581 | 1.69 | 581 |
| 120 | 0 | 0 | 0 | 0.785 | 1.76 | 559 | 1.76 | 559 |
| 130 | 0 | 0 | 0 | 0.785 | 1.82 | 540 | 1.82 | 540 |
| 167 | 0 | 0 | 0 | 0.785 | 2.05 | 480 | 2.05 | 480 |
| 212 | 0 | 0 | 0 | 0.785 | 2.3 | 427 | 2.3 | 427 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 2.74 | 1866 | 2.55 | 2000* |
| 25 | 0 | 0 | 0 | 0.785 | 2.57 | 1525 | 2.36 | 1665 |
| 30 | 0 | 0 | 0 | 0.785 | 2.7 | 1456 | 2.48 | 1583 |
| 40 | 0 | 0 | 0 | 0.785 | 2.94 | 1336 | 2.72 | 1444 |
| 50 | 0 | 0 | 0 | 0.785 | 3.17 | 1239 | 2.95 | 1330 |
| 60 | 0 | 0 | 0 | 0.785 | 3.39 | 1158 | 3.18 | 1237 |
| 70 | 0 | 0 | 0 | 0.785 | 3.6 | 1090 | 3.39 | 1158 |
| 80 | 0 | 0 | 0 | 0.785 | 3.81 | 1032 | 3.6 | 1091 |
| 90 | 0 | 0 | 0 | 0.785 | 4 | 982 | 3.8 | 1034 |
| 100 | 0 | 0 | 0 | 0.785 | 4.19 | 938 | 4 | 984 |
| 110 | 0 | 0 | 0 | 0.785 | 4.34 | 906 | 4.18 | 940 |
| 120 | 0 | 0 | 0 | 0.785 | 4.44 | 885 | 4.36 | 901 |
| 130 | 0 | 0 | 0 | 0.785 | 4.55 | 865 | 4.54 | 867 |
| 167 | 0 | 0 | 0 | 0.785 | 4.92 | 799 | 4.92 | 799 |
| 212 | 0 | 0 | 0 | 0.785 | 5.35 | 736 | 5.35 | 736 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 6.03 | 1907 | 5.75 | 2000* |
| 25 | 0 | 0 | 0 | 0.785 | 5.84 | 1515 | 5.52 | 1601 |
| 30 | 0 | 0 | 0 | 0.785 | 5.98 | 1479 | 5.66 | 1562 |
| 40 | 0 | 0 | 0 | 0.785 | 6.25 | 1414 | 5.94 | 1489 |
| 50 | 0 | 0 | 0 | 0.785 | 6.52 | 1357 | 6.21 | 1424 |
| 60 | 0 | 0 | 0 | 0.785 | 6.78 | 1305 | 6.47 | 1367 |
| 70 | 0 | 0 | 0 | 0.785 | 7.03 | 1259 | 6.73 | 1315 |
| 80 | 0 | 0 | 0 | 0.785 | 7.28 | 1217 | 6.98 | 1269 |
| 90 | 0 | 0 | 0 | 0.785 | 7.51 | 1178 | 7.22 | 1226 |
| 100 | 0 | 0 | 0 | 0.785 | 7.75 | 1143 | 7.45 | 1188 |
| 110 | 0 | 0 | 0 | 0.785 | 7.97 | 1111 | 7.68 | 1152 |
| 120 | 0 | 0 | 0 | 0.785 | 8.15 | 1087 | 7.91 | 1120 |
| 130 | 0 | 0 | 0 | 0.785 | 8.28 | 1070 | 8.13 | 1090 |
| 167 | 0 | 0 | 0 | 0.785 | 8.76 | 1011 | 8.76 | 1011 |
| 212 | 0 | 0 | 0 | 0.785 | 9.31 | 952 | 9.31 | 952 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 10.56 | 1937 | 10.23 | 2000* |
| 25 | 0 | 0 | 0 | 0.785 | 10.36 | 1519 | 9.99 | 1575 |
| 30 | 0 | 0 | 0 | 0.785 | 10.51 | 1498 | 10.14 | 1552 |
| 40 | 0 | 0 | 0 | 0.785 | 10.8 | 1457 | 10.43 | 1509 |
| 50 | 0 | 0 | 0 | 0.785 | 11.09 | 1420 | 10.72 | 1468 |
| 60 | 0 | 0 | 0 | 0.785 | 11.37 | 1385 | 11 | 1431 |
| 70 | 0 | 0 | 0 | 0.785 | 11.64 | 1353 | 11.28 | 1396 |
| 80 | 0 | 0 | 0 | 0.785 | 11.91 | 1322 | 11.55 | 1364 |
| 90 | 0 | 0 | 0 | 0.785 | 12.18 | 1294 | 11.82 | 1333 |
| 100 | 0 | 0 | 0 | 0.785 | 12.44 | 1267 | 12.08 | 1304 |
| 110 | 0 | 0 | 0 | 0.785 | 12.69 | 1242 | 12.34 | 1277 |
| 120 | 0 | 0 | 0 | 0.785 | 12.94 | 1218 | 12.59 | 1252 |
| 130 | 0 | 0 | 0 | 0.785 | 13.11 | 1202 | 12.84 | 1228 |
| 167 | 0 | 0 | 0 | 0.785 | 13.67 | 1154 | 13.67 | 1154 |
| 212 | 0 | 0 | 0 | 0.785 | 14.31 | 1103 | 14.31 | 1103 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 16.37 | 1955 | 16 | 2000* |
| 25 | 0 | 0 | 0 | 0.785 | 16.17 | 1524 | 15.76 | 1563 |
| 30 | 0 | 0 | 0 | 0.785 | 16.32 | 1510 | 15.91 | 1548 |
| 40 | 0 | 0 | 0 | 0.785 | 16.62 | 1482 | 16.22 | 1519 |
| 50 | 0 | 0 | 0 | 0.785 | 16.92 | 1457 | 16.51 | 1492 |
| 60 | 0 | 0 | 0 | 0.785 | 17.21 | 1432 | 16.81 | 1466 |
| 70 | 0 | 0 | 0 | 0.785 | 17.5 | 1409 | 17.1 | 1441 |
| 80 | 0 | 0 | 0 | 0.785 | 17.79 | 1386 | 17.38 | 1418 |
| 90 | 0 | 0 | 0 | 0.785 | 18.07 | 1365 | 17.67 | 1396 |
| 100 | 0 | 0 | 0 | 0.785 | 18.34 | 1345 | 17.94 | 1374 |
| 110 | 0 | 0 | 0 | 0.785 | 18.62 | 1325 | 18.22 | 1354 |
| 120 | 0 | 0 | 0 | 0.785 | 18.89 | 1306 | 18.49 | 1334 |
| 130 | 0 | 0 | 0 | 0.785 | 19.13 | 1290 | 18.76 | 1315 |
| 167 | 0 | 0 | 0 | 0.785 | 19.73 | 1251 | 19.72 | 1252 |
| 212 | 0 | 0 | 0 | 0.785 | 20.45 | 1208 | 20.45 | 1208 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 5 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 0 | 1- 1 |
| 100.00 | 0- 9 | 0-10 | 1- 0 | 1- 2 | 1- 4 | 1- 6 | 1- 7 | 1- 9 | 1-10 | 1-11 |
| 125.00 | 1- 2 | 1- 4 | 1- 7 | 1-10 | 2- 1 | 2- 3 | 2- 6 | 2- 8 | 2-10 | 3- 0 |
| 150.00 | 1- 7 | 2- 0 | 2- 4 | 2- 8 | 3- 0 | 3- 3 | 3- 7 | 3-10 | 4- 1 | 4- 4 |
| 175.00 | 2- 3 | 2- 8 | 3- 2 | 3- 7 | 4- 1 | 4- 6 | 4-11 | 5- 3 | 5- 7 | 5-11 |
| 200.00 | 2-11 | 3- 6 | 4- 1 | 4- 9 | 5- 4 | 5-10 | 6- 4 | 6-10 | 7- 4 | 7- 9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 125.00 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 |
| 150.00 | 1-8 | 2-0 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 |
| 175.00 | 2-3 | 2-9 | 3-3 | 3-9 | 4-3 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 |
| 200.00 | 2-11 | 3-7 | 4-3 | 4-11 | 5-6 | 6-1 | 6-7 | 7-1 | 7-6 | 8-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 |
| 175.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 |
| 200.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 225.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 | 6-1 | 6-4 |
| 250.00 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-3 | 7-7 | 7-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 |
| 175.00 | 2-7 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 |
| 200.00 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 |
| 225.00 | 4-4 | 4-7 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-4 | 6-6 |
| 250.00 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-3 | 7-6 | 7-10 | 8-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 |
| 175.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 |
| 200.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 225.00 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 |
| 250.00 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 |
| 275.00 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-11 | 8-1 |
| 300.00 | 7-7 | 7-10 | 8-1 | 8-4 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 |
| 325.00 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 |
| 350.00 | 10-4 | 10-8 | 11-0 | 11-4 | 11-7 | 11-11 | 12-3 | 12-6 | 12-9 | 13-1 |
| 375.00 | 11-11 | 12-3 | 12-8 | 13-0 | 13-4 | 13-8 | 14-0 | 14-4 | 14-8 | 15-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 175.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 |
| 200.00 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 225.00 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 |
| 250.00 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-10 |
| 275.00 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 |
| 300.00 | 7-10 | 8-1 | 8-4 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-10 |
| 325.00 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 |
| 350.00 | 10-8 | 11-0 | 11-4 | 11-8 | 11-11 | 12-3 | 12-6 | 12-10 | 13-1 | 13-4 |
| 375.00 | 12-3 | 12-8 | 13-0 | 13-4 | 13-8 | 14-0 | 14-4 | 14-8 | 15-0 | 15-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 |
| 225.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 |
| 250.00 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 |
| 275.00 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 |
| 300.00 | 7-9 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-11 |
| 325.00 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-5 |
| 350.00 | 10-6 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 |
| 375.00 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 | 13-9 | 13-11 |
| 400.00 | 13-9 | 14-0 | 14-3 | 14-6 | 14-8 | 14-11 | 15-2 | 15-5 | 15-7 | 15-10 |
| 425.00 | 15-6 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-10 |
| 450.00 | 17-5 | 17-9 | 18-0 | 18-4 | 18-7 | 18-11 | 19-2 | 19-6 | 19-9 | 20-0 |
| 475.00 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-0 | 22-4 |
| 500.00 | 21-6 | 21-11 | 22-3 | 22-8 | 23-0 | 23-4 | 23-9 | 24-1 | 24-5 | 24-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 |
| 225.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 |
| 250.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 |
| 275.00 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 |
| 300.00 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 | 9-0 |
| 325.00 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-7 |
| 350.00 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 |
| 375.00 | 12-4 | 12-6 | 12-9 | 12-11 | 13-2 | 13-4 | 13-7 | 13-9 | 13-11 | 14-2 |
| 400.00 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 | 15-2 | 15-5 | 15-8 | 15-10 | 16-1 |
| 425.00 | 15-10 | 16-1 | 16-4 | 16-8 | 16-11 | 17-2 | 17-5 | 17-8 | 17-11 | 18-2 |
| 450.00 | 17-9 | 18-1 | 18-4 | 18-8 | 18-11 | 19-3 | 19-6 | 19-10 | 20-1 | 20-4 |
| 475.00 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-1 | 22-5 | 22-8 |
| 500.00 | 21-11 | 22-4 | 22-8 | 23-0 | 23-5 | 23-9 | 24-1 | 24-6 | 24-10 | 25-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



OH812.25

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 |
| 275.00 | 6-7 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 |
| 300.00 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 325.00 | 9-2 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-1 |
| 350.00 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-8 |
| 375.00 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 |
| 400.00 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-9 | 14-11 | 15-1 | 15-3 |
| 425.00 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 | 16-6 | 16-8 | 16-10 | 17-0 | 17-2 |
| 450.00 | 17-7 | 17-9 | 17-11 | 18-2 | 18-4 | 18-6 | 18-9 | 18-11 | 19-1 | 19-3 |
| 475.00 | 19-7 | 19-9 | 20-0 | 20-3 | 20-5 | 20-8 | 20-10 | 21-1 | 21-3 | 21-6 |
| 500.00 | 21-8 | 21-11 | 22-2 | 22-5 | 22-8 | 22-11 | 23-1 | 23-4 | 23-7 | 23-10 |
| 525.00 | 23-11 | 24-2 | 24-5 | 24-9 | 25-0 | 25-3 | 25-6 | 25-9 | 26-0 | 26-3 |
| 550.00 | 26-3 | 26-7 | 26-10 | 27-2 | 27-5 | 27-9 | 28-0 | 28-3 | 28-7 | 28-10 |
| 575.00 | 28-8 | 29-0 | 29-4 | 29-8 | 30-0 | 30-4 | 30-7 | 30-11 | 31-3 | 31-6 |
| 600.00 | 31-3 | 31-7 | 32-0 | 32-4 | 32-8 | 33-0 | 33-4 | 33-8 | 34-0 | 34-4 |
| 625.00 | 33-11 | 34-4 | 34-8 | 35-1 | 35-5 | 35-10 | 36-2 | 36-7 | 36-11 | 37-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 |
| 275.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 |
| 300.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 325.00 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 |
| 350.00 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 |
| 375.00 | 12-4 | 12-6 | 12-7 | 12-9 | 12-11 | 13-0 | 13-2 | 13-3 | 13-5 | 13-6 |
| 400.00 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-1 | 15-3 | 15-5 |
| 425.00 | 15-10 | 16-0 | 16-2 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 | 17-5 |
| 450.00 | 17-9 | 18-0 | 18-2 | 18-4 | 18-7 | 18-9 | 18-11 | 19-2 | 19-4 | 19-6 |
| 475.00 | 19-10 | 20-0 | 20-3 | 20-6 | 20-8 | 20-11 | 21-1 | 21-4 | 21-6 | 21-9 |
| 500.00 | 22-0 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-10 | 24-1 |
| 525.00 | 24-3 | 24-6 | 24-9 | 25-0 | 25-3 | 25-7 | 25-10 | 26-1 | 26-4 | 26-7 |
| 550.00 | 26-7 | 26-11 | 27-2 | 27-6 | 27-9 | 28-1 | 28-4 | 28-7 | 28-11 | 29-2 |
| 575.00 | 29-1 | 29-5 | 29-9 | 30-0 | 30-4 | 30-8 | 31-0 | 31-3 | 31-7 | 31-11 |
| 600.00 | 31-8 | 32-0 | 32-4 | 32-9 | 33-1 | 33-5 | 33-9 | 34-1 | 34-5 | 34-9 |
| 625.00 | 34-4 | 34-9 | 35-2 | 35-6 | 35-11 | 36-3 | 36-8 | 37-0 | 37-4 | 37-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 25 | 0 | 8 | 0 | 1.02 | 0.56 | 2287 | 0.51 | 2500* |
| 25 | 0 | 0 | 0 | 0.785 | 0.46 | 2129 | 0.41 | 2375 |
| 30 | 0 | 0 | 0 | 0.785 | 0.52 | 1891 | 0.46 | 2144 |
| 40 | 0 | 0 | 0 | 0.785 | 0.66 | 1492 | 0.57 | 1727 |
| 50 | 0 | 0 | 0 | 0.785 | 0.82 | 1203 | 0.71 | 1391 |
| 60 | 0 | 0 | 0 | 0.785 | 0.98 | 1004 | 0.86 | 1144 |
| 70 | 0 | 0 | 0 | 0.785 | 1.13 | 867 | 1.01 | 969 |
| 80 | 0 | 0 | 0 | 0.785 | 1.28 | 768 | 1.16 | 844 |
| 90 | 0 | 0 | 0 | 0.785 | 1.42 | 694 | 1.3 | 753 |
| 100 | 0 | 0 | 0 | 0.785 | 1.49 | 659 | 1.44 | 683 |
| 110 | 0 | 0 | 0 | 0.785 | 1.56 | 629 | 1.56 | 629 |
| 120 | 0 | 0 | 0 | 0.785 | 1.63 | 602 | 1.63 | 602 |
| 130 | 0 | 0 | 0 | 0.785 | 1.7 | 578 | 1.7 | 578 |
| 167 | 0 | 0 | 0 | 0.785 | 1.94 | 508 | 1.94 | 508 |
| 212 | 0 | 0 | 0 | 0.785 | 2.2 | 447 | 2.2 | 447 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 25 | 0 | 8 | 0 | 1.02 | 2.27 | 2250 | 2.04 | 2500* |
| 25 | 0 | 0 | 0 | 0.785 | 2.07 | 1901 | 1.8 | 2179 |
| 30 | 0 | 0 | 0 | 0.785 | 2.19 | 1789 | 1.92 | 2046 |
| 40 | 0 | 0 | 0 | 0.785 | 2.45 | 1603 | 2.16 | 1818 |
| 50 | 0 | 0 | 0 | 0.785 | 2.7 | 1455 | 2.4 | 1633 |
| 60 | 0 | 0 | 0 | 0.785 | 2.94 | 1336 | 2.65 | 1484 |
| 70 | 0 | 0 | 0 | 0.785 | 3.17 | 1239 | 2.88 | 1363 |
| 80 | 0 | 0 | 0 | 0.785 | 3.39 | 1158 | 3.11 | 1263 |
| 90 | 0 | 0 | 0 | 0.785 | 3.61 | 1090 | 3.33 | 1180 |
| 100 | 0 | 0 | 0 | 0.785 | 3.81 | 1032 | 3.54 | 1110 |
| 110 | 0 | 0 | 0 | 0.785 | 3.96 | 992 | 3.74 | 1050 |
| 120 | 0 | 0 | 0 | 0.785 | 4.07 | 965 | 3.94 | 998 |
| 130 | 0 | 0 | 0 | 0.785 | 4.18 | 941 | 4.13 | 952 |
| 167 | 0 | 0 | 0 | 0.785 | 4.58 | 859 | 4.58 | 859 |
| 212 | 0 | 0 | 0 | 0.785 | 5.02 | 784 | 5.02 | 784 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 4.98 | 2308 | 4.59 | 2500* |
| 25 | 0 | 0 | 0 | 0.785 | 4.72 | 1871 | 4.28 | 2065 |
| 30 | 0 | 0 | 0 | 0.785 | 4.88 | 1811 | 4.44 | 1992 |
| 40 | 0 | 0 | 0 | 0.785 | 5.19 | 1703 | 4.75 | 1863 |
| 50 | 0 | 0 | 0 | 0.785 | 5.49 | 1610 | 5.05 | 1751 |
| 60 | 0 | 0 | 0 | 0.785 | 5.78 | 1530 | 5.34 | 1655 |
| 70 | 0 | 0 | 0 | 0.785 | 6.06 | 1459 | 5.63 | 1570 |
| 80 | 0 | 0 | 0 | 0.785 | 6.34 | 1396 | 5.91 | 1496 |
| 90 | 0 | 0 | 0 | 0.785 | 6.6 | 1341 | 6.18 | 1431 |
| 100 | 0 | 0 | 0 | 0.785 | 6.86 | 1291 | 6.45 | 1373 |
| 110 | 0 | 0 | 0 | 0.785 | 7.11 | 1246 | 6.7 | 1320 |
| 120 | 0 | 0 | 0 | 0.785 | 7.31 | 1211 | 6.95 | 1273 |
| 130 | 0 | 0 | 0 | 0.785 | 7.45 | 1189 | 7.19 | 1230 |
| 167 | 0 | 0 | 0 | 0.785 | 7.96 | 1112 | 7.96 | 1112 |
| 212 | 0 | 0 | 0 | 0.785 | 8.55 | 1037 | 8.55 | 1037 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 8.67 | 2359 | 8.17 | 2500* |
| 25 | 0 | 0 | 0 | 0.785 | 8.38 | 1877 | 7.82 | 2010 |
| 30 | 0 | 0 | 0 | 0.785 | 8.55 | 1839 | 8 | 1966 |
| 40 | 0 | 0 | 0 | 0.785 | 8.89 | 1769 | 8.34 | 1885 |
| 50 | 0 | 0 | 0 | 0.785 | 9.23 | 1705 | 8.68 | 1813 |
| 60 | 0 | 0 | 0 | 0.785 | 9.55 | 1648 | 9.01 | 1747 |
| 70 | 0 | 0 | 0 | 0.785 | 9.86 | 1596 | 9.33 | 1687 |
| 80 | 0 | 0 | 0 | 0.785 | 10.17 | 1548 | 9.64 | 1633 |
| 90 | 0 | 0 | 0 | 0.785 | 10.47 | 1503 | 9.94 | 1583 |
| 100 | 0 | 0 | 0 | 0.785 | 10.76 | 1463 | 10.24 | 1537 |
| 110 | 0 | 0 | 0 | 0.785 | 11.05 | 1425 | 10.54 | 1494 |
| 120 | 0 | 0 | 0 | 0.785 | 11.33 | 1390 | 10.82 | 1455 |
| 130 | 0 | 0 | 0 | 0.785 | 11.55 | 1363 | 11.11 | 1418 |
| 167 | 0 | 0 | 0 | 0.785 | 12.14 | 1298 | 12.1 | 1302 |
| 212 | 0 | 0 | 0 | 0.785 | 12.85 | 1226 | 12.85 | 1226 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 13.35 | 2395 | 12.78 | 2500* |
| 25 | 0 | 0 | 0 | 0.785 | 13.04 | 1886 | 12.42 | 1981 |
| 30 | 0 | 0 | 0 | 0.785 | 13.23 | 1860 | 12.6 | 1952 |
| 40 | 0 | 0 | 0 | 0.785 | 13.59 | 1811 | 12.96 | 1898 |
| 50 | 0 | 0 | 0 | 0.785 | 13.94 | 1766 | 13.32 | 1848 |
| 60 | 0 | 0 | 0 | 0.785 | 14.28 | 1723 | 13.66 | 1801 |
| 70 | 0 | 0 | 0 | 0.785 | 14.62 | 1684 | 14.01 | 1757 |
| 80 | 0 | 0 | 0 | 0.785 | 14.95 | 1647 | 14.34 | 1716 |
| 90 | 0 | 0 | 0 | 0.785 | 15.28 | 1612 | 14.67 | 1678 |
| 100 | 0 | 0 | 0 | 0.785 | 15.6 | 1579 | 15 | 1642 |
| 110 | 0 | 0 | 0 | 0.785 | 15.91 | 1548 | 15.31 | 1608 |
| 120 | 0 | 0 | 0 | 0.785 | 16.22 | 1519 | 15.63 | 1576 |
| 130 | 0 | 0 | 0 | 0.785 | 16.52 | 1491 | 15.94 | 1546 |
| 167 | 0 | 0 | 0 | 0.785 | 17.21 | 1432 | 17.04 | 1446 |
| 212 | 0 | 0 | 0 | 0.785 | 18.01 | 1369 | 18.01 | 1369 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 |
| 125.00 | 0-10 | 1-1 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 | 2-10 |
| 150.00 | 1-3 | 1-6 | 1-10 | 2-3 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 |
| 175.00 | 1-8 | 2-1 | 2-6 | 3-0 | 3-6 | 3-11 | 4-4 | 4-9 | 5-2 | 5-6 |
| 200.00 | 2-3 | 2-9 | 3-4 | 3-11 | 4-7 | 5-2 | 5-8 | 6-3 | 6-9 | 7-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 100.00 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-10 |
| 125.00 | 0-11 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 |
| 150.00 | 1-4 | 1-8 | 2-0 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 3-11 | 4-3 |
| 175.00 | 1-9 | 2-3 | 2-9 | 3-3 | 3-9 | 4-2 | 4-7 | 5-0 | 5-5 | 5-9 |
| 200.00 | 2-4 | 2-11 | 3-7 | 4-3 | 4-11 | 5-6 | 6-0 | 6-7 | 7-0 | 7-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 150.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 |
| 175.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 |
| 200.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 |
| 225.00 | 3-2 | 3-6 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 |
| 250.00 | 3-11 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 150.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 |
| 175.00 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 |
| 200.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 |
| 225.00 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 |
| 250.00 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 |
| 175.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200.00 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 |
| 225.00 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 |
| 250.00 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 |
| 275.00 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 |
| 300.00 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-4 | 7-6 | 7-9 | 8-0 | 8-3 |
| 325.00 | 7-0 | 7-4 | 7-8 | 8-0 | 8-3 | 8-7 | 8-10 | 9-2 | 9-5 | 9-8 |
| 350.00 | 8-1 | 8-6 | 8-10 | 9-3 | 9-7 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 |
| 375.00 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 | 11-5 | 11-9 | 12-2 | 12-6 | 12-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 200.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 |
| 225.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-10 |
| 250.00 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 |
| 275.00 | 5-4 | 5-7 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 |
| 300.00 | 6-4 | 6-7 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 |
| 325.00 | 7-5 | 7-9 | 8-1 | 8-5 | 8-8 | 9-0 | 9-3 | 9-7 | 9-10 | 10-1 |
| 350.00 | 8-8 | 9-0 | 9-5 | 9-9 | 10-1 | 10-5 | 10-9 | 11-1 | 11-5 | 11-8 |
| 375.00 | 9-11 | 10-4 | 10-9 | 11-2 | 11-7 | 12-0 | 12-4 | 12-9 | 13-1 | 13-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 |
| 250.00 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 |
| 275.00 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 |
| 300.00 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-6 |
| 325.00 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 |
| 350.00 | 8-4 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-9 | 10-0 | 10-2 |
| 375.00 | 9-6 | 9-9 | 10-1 | 10-4 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-8 |
| 400.00 | 10-10 | 11-2 | 11-5 | 11-9 | 12-0 | 12-3 | 12-6 | 12-10 | 13-1 | 13-4 |
| 425.00 | 12-3 | 12-7 | 12-11 | 13-3 | 13-6 | 13-10 | 14-2 | 14-5 | 14-9 | 15-0 |
| 450.00 | 13-9 | 14-1 | 14-6 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-6 | 16-10 |
| 475.00 | 15-4 | 15-9 | 16-1 | 16-6 | 16-11 | 17-4 | 17-8 | 18-1 | 18-5 | 18-9 |
| 500.00 | 16-11 | 17-5 | 17-10 | 18-4 | 18-9 | 19-2 | 19-7 | 20-0 | 20-5 | 20-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 |
| 225.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 250.00 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 |
| 275.00 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-6 |
| 300.00 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-7 | 7-9 |
| 325.00 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 |
| 350.00 | 8-8 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 |
| 375.00 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 | 11-5 | 11-7 | 11-10 | 12-1 |
| 400.00 | 11-3 | 11-7 | 11-10 | 12-2 | 12-5 | 12-8 | 13-0 | 13-3 | 13-6 | 13-9 |
| 425.00 | 12-9 | 13-1 | 13-5 | 13-9 | 14-0 | 14-4 | 14-8 | 14-11 | 15-3 | 15-6 |
| 450.00 | 14-4 | 14-8 | 15-0 | 15-5 | 15-9 | 16-1 | 16-5 | 16-9 | 17-1 | 17-5 |
| 475.00 | 15-11 | 16-4 | 16-9 | 17-2 | 17-6 | 17-11 | 18-3 | 18-8 | 19-0 | 19-5 |
| 500.00 | 17-8 | 18-1 | 18-7 | 19-0 | 19-5 | 19-10 | 20-3 | 20-8 | 21-1 | 21-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS



OH812.33

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 5-11 |
| 300.00 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-1 |
| 325.00 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 |
| 350.00 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 | 9-6 | 9-8 |
| 375.00 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 | 11-1 |
| 400.00 | 11-0 | 11-2 | 11-4 | 11-6 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 |
| 425.00 | 12-5 | 12-7 | 12-10 | 13-0 | 13-3 | 13-5 | 13-8 | 13-10 | 14-1 | 14-3 |
| 450.00 | 13-11 | 14-2 | 14-4 | 14-7 | 14-10 | 15-1 | 15-4 | 15-6 | 15-9 | 16-0 |
| 475.00 | 15-6 | 15-9 | 16-0 | 16-3 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-10 |
| 500.00 | 17-2 | 17-5 | 17-9 | 18-1 | 18-4 | 18-7 | 18-11 | 19-2 | 19-5 | 19-9 |
| 525.00 | 18-11 | 19-3 | 19-7 | 19-11 | 20-3 | 20-6 | 20-10 | 21-2 | 21-5 | 21-9 |
| 550.00 | 20-9 | 21-2 | 21-6 | 21-10 | 22-2 | 22-6 | 22-11 | 23-3 | 23-7 | 23-10 |
| 575.00 | 22-8 | 23-1 | 23-6 | 23-11 | 24-3 | 24-8 | 25-0 | 25-5 | 25-9 | 26-1 |
| 600.00 | 24-9 | 25-2 | 25-7 | 26-0 | 26-5 | 26-10 | 27-3 | 27-8 | 28-0 | 28-5 |
| 625.00 | 26-10 | 27-4 | 27-9 | 28-3 | 28-8 | 29-1 | 29-7 | 30-0 | 30-5 | 30-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 275.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 300.00 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-3 |
| 325.00 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 |
| 350.00 | 8-8 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 |
| 375.00 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 |
| 400.00 | 11-3 | 11-6 | 11-8 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 |
| 425.00 | 12-9 | 12-11 | 13-2 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 | 14-5 | 14-7 |
| 450.00 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-8 | 15-11 | 16-2 | 16-4 |
| 475.00 | 15-11 | 16-2 | 16-5 | 16-9 | 17-0 | 17-3 | 17-6 | 17-9 | 18-0 | 18-3 |
| 500.00 | 17-8 | 17-11 | 18-3 | 18-6 | 18-10 | 19-1 | 19-5 | 19-8 | 19-11 | 20-2 |
| 525.00 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-4 | 21-8 | 22-0 | 22-3 |
| 550.00 | 21-4 | 21-9 | 22-1 | 22-5 | 22-9 | 23-1 | 23-6 | 23-10 | 24-2 | 24-5 |
| 575.00 | 23-4 | 23-9 | 24-2 | 24-6 | 24-11 | 25-3 | 25-8 | 26-0 | 26-5 | 26-9 |
| 600.00 | 25-5 | 25-10 | 26-3 | 26-8 | 27-1 | 27-6 | 27-11 | 28-4 | 28-9 | 29-1 |
| 625.00 | 27-7 | 28-1 | 28-6 | 29-0 | 29-5 | 29-11 | 30-4 | 30-9 | 31-2 | 31-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 0.47 | 2688 | 0.43 | 3000* |
| 25 | 0 | 0 | 0 | 0.785 | 0.38 | 2563 | 0.34 | 2908 |
| 30 | 0 | 0 | 0 | 0.785 | 0.43 | 2292 | 0.37 | 2659 |
| 40 | 0 | 0 | 0 | 0.785 | 0.54 | 1810 | 0.45 | 2183 |
| 50 | 0 | 0 | 0 | 0.785 | 0.69 | 1431 | 0.56 | 1759 |
| 60 | 0 | 0 | 0 | 0.785 | 0.85 | 1161 | 0.69 | 1415 |
| 70 | 0 | 0 | 0 | 0.785 | 1.01 | 975 | 0.85 | 1160 |
| 80 | 0 | 0 | 0 | 0.785 | 1.16 | 846 | 1 | 980 |
| 90 | 0 | 0 | 0 | 0.785 | 1.3 | 754 | 1.15 | 852 |
| 100 | 0 | 0 | 0 | 0.785 | 1.37 | 715 | 1.29 | 759 |
| 110 | 0 | 0 | 0 | 0.785 | 1.44 | 680 | 1.43 | 688 |
| 120 | 0 | 0 | 0 | 0.785 | 1.52 | 646 | 1.52 | 646 |
| 130 | 0 | 0 | 0 | 0.785 | 1.59 | 618 | 1.59 | 618 |
| 167 | 0 | 0 | 0 | 0.785 | 1.83 | 536 | 1.83 | 536 |
| 212 | 0 | 0 | 0 | 0.785 | 2.11 | 467 | 2.11 | 467 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 1.95 | 2618 | 1.7 | 3000* |
| 25 | 0 | 0 | 0 | 0.785 | 1.72 | 2284 | 1.44 | 2721 |
| 30 | 0 | 0 | 0 | 0.785 | 1.84 | 2130 | 1.54 | 2544 |
| 40 | 0 | 0 | 0 | 0.785 | 2.1 | 1871 | 1.76 | 2228 |
| 50 | 0 | 0 | 0 | 0.785 | 2.36 | 1667 | 2 | 1966 |
| 60 | 0 | 0 | 0 | 0.785 | 2.61 | 1506 | 2.24 | 1752 |
| 70 | 0 | 0 | 0 | 0.785 | 2.85 | 1377 | 2.49 | 1580 |
| 80 | 0 | 0 | 0 | 0.785 | 3.09 | 1273 | 2.73 | 1441 |
| 90 | 0 | 0 | 0 | 0.785 | 3.31 | 1186 | 2.96 | 1327 |
| 100 | 0 | 0 | 0 | 0.785 | 3.53 | 1114 | 3.19 | 1233 |
| 110 | 0 | 0 | 0 | 0.785 | 3.68 | 1067 | 3.4 | 1155 |
| 120 | 0 | 0 | 0 | 0.785 | 3.8 | 1036 | 3.61 | 1088 |
| 130 | 0 | 0 | 0 | 0.785 | 3.91 | 1007 | 3.81 | 1031 |
| 167 | 0 | 0 | 0 | 0.785 | 4.32 | 911 | 4.32 | 911 |
| 212 | 0 | 0 | 0 | 0.785 | 4.78 | 824 | 4.78 | 824 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 4.29 | 2680 | 3.83 | 3000* |
| 25 | 0 | 0 | 0 | 0.785 | 3.97 | 2224 | 3.44 | 2568 |
| 30 | 0 | 0 | 0 | 0.785 | 4.14 | 2134 | 3.6 | 2456 |
| 40 | 0 | 0 | 0 | 0.785 | 4.47 | 1977 | 3.91 | 2258 |
| 50 | 0 | 0 | 0 | 0.785 | 4.79 | 1845 | 4.23 | 2089 |
| 60 | 0 | 0 | 0 | 0.785 | 5.1 | 1732 | 4.55 | 1945 |
| 70 | 0 | 0 | 0 | 0.785 | 5.41 | 1635 | 4.85 | 1822 |
| 80 | 0 | 0 | 0 | 0.785 | 5.7 | 1551 | 5.15 | 1715 |
| 90 | 0 | 0 | 0 | 0.785 | 5.98 | 1478 | 5.45 | 1623 |
| 100 | 0 | 0 | 0 | 0.785 | 6.26 | 1413 | 5.73 | 1543 |
| 110 | 0 | 0 | 0 | 0.785 | 6.53 | 1356 | 6.01 | 1472 |
| 120 | 0 | 0 | 0 | 0.785 | 6.75 | 1312 | 6.28 | 1409 |
| 130 | 0 | 0 | 0 | 0.785 | 6.89 | 1285 | 6.54 | 1353 |
| 167 | 0 | 0 | 0 | 0.785 | 7.42 | 1192 | 7.42 | 1192 |
| 212 | 0 | 0 | 0 | 0.785 | 8.03 | 1103 | 8.03 | 1103 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 7.43 | 2748 | 6.81 | 3000* |
| 25 | 0 | 0 | 0 | 0.785 | 7.07 | 2224 | 6.35 | 2476 |
| 30 | 0 | 0 | 0 | 0.785 | 7.26 | 2165 | 6.54 | 2405 |
| 40 | 0 | 0 | 0 | 0.785 | 7.63 | 2060 | 6.91 | 2275 |
| 50 | 0 | 0 | 0 | 0.785 | 8 | 1966 | 7.28 | 2161 |
| 60 | 0 | 0 | 0 | 0.785 | 8.35 | 1883 | 7.64 | 2059 |
| 70 | 0 | 0 | 0 | 0.785 | 8.7 | 1808 | 7.99 | 1968 |
| 80 | 0 | 0 | 0 | 0.785 | 9.03 | 1741 | 8.33 | 1887 |
| 90 | 0 | 0 | 0 | 0.785 | 9.36 | 1681 | 8.67 | 1814 |
| 100 | 0 | 0 | 0 | 0.785 | 9.68 | 1625 | 9 | 1748 |
| 110 | 0 | 0 | 0 | 0.785 | 9.99 | 1575 | 9.32 | 1688 |
| 120 | 0 | 0 | 0 | 0.785 | 10.3 | 1529 | 9.63 | 1633 |
| 130 | 0 | 0 | 0 | 0.785 | 10.55 | 1492 | 9.94 | 1583 |
| 167 | 0 | 0 | 0 | 0.785 | 11.17 | 1410 | 11.02 | 1429 |
| 212 | 0 | 0 | 0 | 0.785 | 11.92 | 1322 | 11.92 | 1322 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.02 | 11.4 | 2803 | 10.64 | 3000* |
| 25 | 0 | 0 | 0 | 0.785 | 11 | 2235 | 10.14 | 2423 |
| 30 | 0 | 0 | 0 | 0.785 | 11.2 | 2194 | 10.35 | 2375 |
| 40 | 0 | 0 | 0 | 0.785 | 11.6 | 2119 | 10.75 | 2285 |
| 50 | 0 | 0 | 0 | 0.785 | 12 | 2049 | 11.15 | 2204 |
| 60 | 0 | 0 | 0 | 0.785 | 12.38 | 1986 | 11.54 | 2130 |
| 70 | 0 | 0 | 0 | 0.785 | 12.76 | 1928 | 11.93 | 2062 |
| 80 | 0 | 0 | 0 | 0.785 | 13.13 | 1874 | 12.3 | 1999 |
| 90 | 0 | 0 | 0 | 0.785 | 13.49 | 1824 | 12.67 | 1941 |
| 100 | 0 | 0 | 0 | 0.785 | 13.84 | 1778 | 13.03 | 1887 |
| 110 | 0 | 0 | 0 | 0.785 | 14.19 | 1735 | 13.39 | 1838 |
| 120 | 0 | 0 | 0 | 0.785 | 14.53 | 1694 | 13.74 | 1791 |
| 130 | 0 | 0 | 0 | 0.785 | 14.86 | 1657 | 14.08 | 1748 |
| 167 | 0 | 0 | 0 | 0.785 | 15.63 | 1576 | 15.29 | 1610 |
| 212 | 0 | 0 | 0 | 0.785 | 16.47 | 1496 | 16.47 | 1496 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 100.00 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 |
| 125.00 | 0-8 | 0-10 | 1-1 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 |
| 150.00 | 1-0 | 1-3 | 1-6 | 1-10 | 2-2 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 |
| 175.00 | 1-5 | 1-8 | 2-1 | 2-6 | 3-0 | 3-6 | 3-11 | 4-4 | 4-9 | 5-2 |
| 200.00 | 1-10 | 2-2 | 2-9 | 3-4 | 3-11 | 4-7 | 5-2 | 5-8 | 6-3 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 125.00 | 0-9 | 0-11 | 1-2 | 1-6 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 |
| 150.00 | 1-1 | 1-4 | 1-9 | 2-1 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-0 |
| 175.00 | 1-5 | 1-10 | 2-4 | 2-10 | 3-4 | 3-10 | 4-4 | 4-9 | 5-1 | 5-6 |
| 200.00 | 1-11 | 2-5 | 3-1 | 3-9 | 4-5 | 5-0 | 5-7 | 6-2 | 6-8 | 7-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 |
| 175.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 |
| 225.00 | 2-7 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 |
| 250.00 | 3-2 | 3-6 | 3-11 | 4-4 | 4-8 | 5-0 | 5-5 | 5-9 | 6-0 | 6-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 |
| 150.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 175.00 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 |
| 200.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 225.00 | 2-11 | 3-3 | 3-7 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 |
| 250.00 | 3-7 | 4-0 | 4-5 | 4-10 | 5-2 | 5-6 | 5-11 | 6-2 | 6-6 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.39

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 |
| 175.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 200.00 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 |
| 225.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-2 |
| 250.00 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 |
| 275.00 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-2 |
| 300.00 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 325.00 | 5-8 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-9 | 8-0 | 8-4 | 8-8 |
| 350.00 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-7 | 9-0 | 9-4 | 9-8 | 10-0 |
| 375.00 | 7-7 | 8-1 | 8-6 | 9-0 | 9-5 | 9-10 | 10-4 | 10-8 | 11-1 | 11-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 175.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-6 |
| 225.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 |
| 250.00 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 |
| 275.00 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 |
| 300.00 | 5-4 | 5-8 | 6-0 | 6-3 | 6-6 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 |
| 325.00 | 6-3 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-7 | 8-11 | 9-2 |
| 350.00 | 7-3 | 7-8 | 8-1 | 8-6 | 8-11 | 9-3 | 9-8 | 10-0 | 10-4 | 10-8 |
| 375.00 | 8-4 | 8-10 | 9-4 | 9-9 | 10-3 | 10-8 | 11-1 | 11-5 | 11-10 | 12-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 225.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 250.00 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 |
| 275.00 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 | 5-6 |
| 300.00 | 5-0 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 |
| 325.00 | 5-10 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 |
| 350.00 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-6 | 8-9 | 8-11 |
| 375.00 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 |
| 400.00 | 8-11 | 9-3 | 9-7 | 9-10 | 10-2 | 10-6 | 10-10 | 11-1 | 11-5 | 11-8 |
| 425.00 | 10-0 | 10-5 | 10-9 | 11-2 | 11-6 | 11-10 | 12-2 | 12-6 | 12-10 | 13-2 |
| 450.00 | 11-3 | 11-8 | 12-1 | 12-6 | 12-11 | 13-3 | 13-8 | 14-1 | 14-5 | 14-9 |
| 475.00 | 12-6 | 13-0 | 13-6 | 13-11 | 14-4 | 14-10 | 15-3 | 15-8 | 16-1 | 16-6 |
| 500.00 | 13-11 | 14-5 | 14-11 | 15-5 | 15-11 | 16-5 | 16-11 | 17-4 | 17-10 | 18-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 225.00 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 |
| 250.00 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 |
| 275.00 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 |
| 300.00 | 5-4 | 5-6 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 |
| 325.00 | 6-3 | 6-6 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-9 | 7-11 | 8-1 |
| 350.00 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 | 9-5 |
| 375.00 | 8-4 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 |
| 400.00 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 | 11-1 | 11-5 | 11-8 | 12-0 | 12-3 |
| 425.00 | 10-9 | 11-1 | 11-6 | 11-10 | 12-2 | 12-7 | 12-11 | 13-2 | 13-6 | 13-10 |
| 450.00 | 12-1 | 12-6 | 12-11 | 13-3 | 13-8 | 14-1 | 14-5 | 14-10 | 15-2 | 15-6 |
| 475.00 | 13-5 | 13-11 | 14-4 | 14-10 | 15-3 | 15-8 | 16-1 | 16-6 | 16-11 | 17-4 |
| 500.00 | 14-11 | 15-5 | 15-11 | 16-5 | 16-11 | 17-4 | 17-10 | 18-3 | 18-9 | 19-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS



OH812.41

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 275.00 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 |
| 300.00 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 |
| 325.00 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 |
| 350.00 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-2 | 8-4 |
| 375.00 | 7-11 | 8-2 | 8-4 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 |
| 400.00 | 9-0 | 9-3 | 9-6 | 9-8 | 9-11 | 10-1 | 10-4 | 10-6 | 10-9 | 10-11 |
| 425.00 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 | 11-5 | 11-8 | 11-11 | 12-1 | 12-4 |
| 450.00 | 11-5 | 11-9 | 12-0 | 12-3 | 12-6 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 |
| 475.00 | 12-9 | 13-1 | 13-4 | 13-8 | 14-0 | 14-3 | 14-7 | 14-10 | 15-1 | 15-5 |
| 500.00 | 14-1 | 14-6 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-5 | 16-9 | 17-1 |
| 525.00 | 15-7 | 15-11 | 16-4 | 16-8 | 17-1 | 17-5 | 17-9 | 18-2 | 18-6 | 18-10 |
| 550.00 | 17-1 | 17-6 | 17-11 | 18-4 | 18-9 | 19-2 | 19-6 | 19-11 | 20-3 | 20-8 |
| 575.00 | 18-8 | 19-2 | 19-7 | 20-1 | 20-6 | 20-11 | 21-4 | 21-9 | 22-2 | 22-7 |
| 600.00 | 20-4 | 20-10 | 21-4 | 21-10 | 22-4 | 22-9 | 23-3 | 23-8 | 24-2 | 24-7 |
| 625.00 | 22-1 | 22-7 | 23-2 | 23-8 | 24-3 | 24-9 | 25-3 | 25-9 | 26-3 | 26-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 275.00 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 300.00 | 5-4 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-5 |
| 325.00 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 |
| 350.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 |
| 375.00 | 8-4 | 8-6 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 |
| 400.00 | 9-6 | 9-9 | 9-11 | 10-2 | 10-4 | 10-7 | 10-9 | 11-0 | 11-2 | 11-4 |
| 425.00 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-7 | 12-10 |
| 450.00 | 12-0 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-11 | 14-2 | 14-4 |
| 475.00 | 13-5 | 13-8 | 14-0 | 14-4 | 14-7 | 14-11 | 15-2 | 15-6 | 15-9 | 16-0 |
| 500.00 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-6 | 16-10 | 17-2 | 17-5 | 17-9 |
| 525.00 | 16-4 | 16-9 | 17-1 | 17-6 | 17-10 | 18-2 | 18-7 | 18-11 | 19-3 | 19-7 |
| 550.00 | 17-11 | 18-4 | 18-9 | 19-2 | 19-7 | 20-0 | 20-4 | 20-9 | 21-1 | 21-6 |
| 575.00 | 19-7 | 20-1 | 20-6 | 21-0 | 21-5 | 21-10 | 22-3 | 22-8 | 23-1 | 23-6 |
| 600.00 | 21-4 | 21-10 | 22-4 | 22-10 | 23-4 | 23-9 | 24-3 | 24-8 | 25-2 | 25-7 |
| 625.00 | 23-2 | 23-9 | 24-3 | 24-10 | 25-4 | 25-10 | 26-4 | 26-10 | 27-3 | 27-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 2.47 | 1000 | 2.47 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 2.36 | 417 | 2.34 | 420 |
| 30 | 0 | 0 | 0 | 0.785 | 2.63 | 373 | 2.62 | 375 |
| 40 | 0 | 0 | 0 | 0.785 | 2.71 | 363 | 2.7 | 364 |
| 50 | 0 | 0 | 0 | 0.785 | 2.79 | 353 | 2.78 | 354 |
| 60 | 0 | 0 | 0 | 0.785 | 2.86 | 344 | 2.85 | 345 |
| 70 | 0 | 0 | 0 | 0.785 | 2.93 | 336 | 2.92 | 337 |
| 80 | 0 | 0 | 0 | 0.785 | 2.99 | 329 | 2.99 | 329 |
| 90 | 0 | 0 | 0 | 0.785 | 3.04 | 324 | 3.04 | 324 |
| 100 | 0 | 0 | 0 | 0.785 | 3.08 | 320 | 3.08 | 320 |
| 110 | 0 | 0 | 0 | 0.785 | 3.12 | 316 | 3.12 | 316 |
| 120 | 0 | 0 | 0 | 0.785 | 3.16 | 311 | 3.16 | 311 |
| 130 | 0 | 0 | 0 | 0.785 | 3.2 | 307 | 3.2 | 307 |
| 167 | 0 | 0 | 0 | 0.785 | 3.35 | 294 | 3.35 | 294 |
| 212 | 0 | 0 | 0 | 0.785 | 3.53 | 280 | 3.53 | 280 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 9.94 | 1000 | 9.94 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 9.83 | 403 | 9.82 | 404 |
| 30 | 0 | 0 | 0 | 0.785 | 10.12 | 392 | 10.11 | 392 |
| 40 | 0 | 0 | 0 | 0.785 | 10.2 | 389 | 10.19 | 389 |
| 50 | 0 | 0 | 0 | 0.785 | 10.28 | 386 | 10.27 | 386 |
| 60 | 0 | 0 | 0 | 0.785 | 10.36 | 383 | 10.35 | 383 |
| 70 | 0 | 0 | 0 | 0.785 | 10.44 | 380 | 10.43 | 380 |
| 80 | 0 | 0 | 0 | 0.785 | 10.52 | 377 | 10.51 | 378 |
| 90 | 0 | 0 | 0 | 0.785 | 10.58 | 375 | 10.58 | 375 |
| 100 | 0 | 0 | 0 | 0.785 | 10.63 | 373 | 10.63 | 373 |
| 110 | 0 | 0 | 0 | 0.785 | 10.68 | 372 | 10.68 | 372 |
| 120 | 0 | 0 | 0 | 0.785 | 10.73 | 370 | 10.73 | 370 |
| 130 | 0 | 0 | 0 | 0.785 | 10.78 | 368 | 10.78 | 368 |
| 167 | 0 | 0 | 0 | 0.785 | 10.96 | 362 | 10.96 | 362 |
| 212 | 0 | 0 | 0 | 0.785 | 11.18 | 355 | 11.18 | 355 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 22.66 | 1000 | 22.66 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 22.55 | 400 | 22.54 | 401 |
| 30 | 0 | 0 | 0 | 0.785 | 22.84 | 396 | 22.83 | 396 |
| 40 | 0 | 0 | 0 | 0.785 | 22.92 | 394 | 22.91 | 394 |
| 50 | 0 | 0 | 0 | 0.785 | 23 | 393 | 22.99 | 393 |
| 60 | 0 | 0 | 0 | 0.785 | 23.09 | 392 | 23.08 | 392 |
| 70 | 0 | 0 | 0 | 0.785 | 23.17 | 390 | 23.16 | 390 |
| 80 | 0 | 0 | 0 | 0.785 | 23.25 | 389 | 23.24 | 389 |
| 90 | 0 | 0 | 0 | 0.785 | 23.31 | 388 | 23.31 | 388 |
| 100 | 0 | 0 | 0 | 0.785 | 23.37 | 387 | 23.37 | 387 |
| 110 | 0 | 0 | 0 | 0.785 | 23.42 | 386 | 23.42 | 386 |
| 120 | 0 | 0 | 0 | 0.785 | 23.47 | 385 | 23.47 | 385 |
| 130 | 0 | 0 | 0 | 0.785 | 23.52 | 385 | 23.52 | 385 |
| 167 | 0 | 0 | 0 | 0.785 | 23.72 | 382 | 23.72 | 382 |
| 212 | 0 | 0 | 0 | 0.785 | 23.95 | 378 | 23.95 | 378 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 41.05 | 1000 | 41.05 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 40.94 | 400 | 40.93 | 400 |
| 30 | 0 | 0 | 0 | 0.785 | 41.23 | 397 | 41.22 | 397 |
| 40 | 0 | 0 | 0 | 0.785 | 41.31 | 396 | 41.3 | 396 |
| 50 | 0 | 0 | 0 | 0.785 | 41.39 | 396 | 41.39 | 396 |
| 60 | 0 | 0 | 0 | 0.785 | 41.48 | 395 | 41.47 | 395 |
| 70 | 0 | 0 | 0 | 0.785 | 41.56 | 394 | 41.55 | 394 |
| 80 | 0 | 0 | 0 | 0.785 | 41.64 | 393 | 41.63 | 394 |
| 90 | 0 | 0 | 0 | 0.785 | 41.71 | 393 | 41.71 | 393 |
| 100 | 0 | 0 | 0 | 0.785 | 41.76 | 392 | 41.76 | 392 |
| 110 | 0 | 0 | 0 | 0.785 | 41.82 | 392 | 41.82 | 392 |
| 120 | 0 | 0 | 0 | 0.785 | 41.87 | 391 | 41.87 | 391 |
| 130 | 0 | 0 | 0 | 0.785 | 41.92 | 391 | 41.92 | 391 |
| 167 | 0 | 0 | 0 | 0.785 | 42.12 | 389 | 42.12 | 389 |
| 212 | 0 | 0 | 0 | 0.785 | 42.36 | 387 | 42.36 | 387 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 65.84 | 1000 | 65.84 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 65.72 | 399 | 65.71 | 399 |
| 30 | 0 | 0 | 0 | 0.785 | 66.01 | 398 | 66 | 398 |
| 40 | 0 | 0 | 0 | 0.785 | 66.09 | 397 | 66.08 | 397 |
| 50 | 0 | 0 | 0 | 0.785 | 66.18 | 397 | 66.17 | 397 |
| 60 | 0 | 0 | 0 | 0.785 | 66.26 | 396 | 66.25 | 396 |
| 70 | 0 | 0 | 0 | 0.785 | 66.34 | 396 | 66.33 | 396 |
| 80 | 0 | 0 | 0 | 0.785 | 66.43 | 396 | 66.41 | 396 |
| 90 | 0 | 0 | 0 | 0.785 | 66.49 | 395 | 66.49 | 395 |
| 100 | 0 | 0 | 0 | 0.785 | 66.55 | 395 | 66.55 | 395 |
| 110 | 0 | 0 | 0 | 0.785 | 66.6 | 395 | 66.6 | 395 |
| 120 | 0 | 0 | 0 | 0.785 | 66.65 | 394 | 66.65 | 394 |
| 130 | 0 | 0 | 0 | 0.785 | 66.71 | 394 | 66.71 | 394 |
| 167 | 0 | 0 | 0 | 0.785 | 66.91 | 393 | 66.91 | 393 |
| 212 | 0 | 0 | 0 | 0.785 | 67.15 | 392 | 67.15 | 392 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 |
| 100.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 125.00 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 150.00 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 |
| 175.00 | 7-9 | 8-1 | 8-4 | 8-6 | 8-9 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 |
| 200.00 | 10-2 | 10-6 | 10-10 | 11-2 | 11-5 | 11-9 | 12-0 | 12-2 | 12-4 | 12-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 |
| 100.00 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 125.00 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 150.00 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 |
| 175.00 | 7-10 | 8-1 | 8-4 | 8-7 | 8-9 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 |
| 200.00 | 10-3 | 10-7 | 10-11 | 11-2 | 11-6 | 11-9 | 12-0 | 12-2 | 12-4 | 12-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.46

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 |
| 125.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 |
| 150.00 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 |
| 175.00 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 |
| 200.00 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-8 |
| 225.00 | 12-8 | 12-10 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-6 | 13-6 |
| 250.00 | 15-8 | 15-10 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 |
| 125.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 |
| 150.00 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 |
| 175.00 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 |
| 200.00 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-8 |
| 225.00 | 12-8 | 12-10 | 12-11 | 13-0 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-6 |
| 250.00 | 15-8 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 | 16-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 |
| 175.00 | 7-8 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 |
| 200.00 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 |
| 225.00 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 |
| 250.00 | 15-9 | 15-10 | 15-10 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 |
| 275.00 | 19-1 | 19-2 | 19-3 | 19-4 | 19-4 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 |
| 300.00 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 |
| 325.00 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-3 | 27-4 | 27-5 | 27-6 | 27-6 |
| 350.00 | 31-0 | 31-2 | 31-3 | 31-5 | 31-6 | 31-7 | 31-9 | 31-10 | 31-11 | 32-0 |
| 375.00 | 35-8 | 35-10 | 35-11 | 36-1 | 36-3 | 36-4 | 36-6 | 36-7 | 36-8 | 36-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 |
| 175.00 | 7-8 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 |
| 200.00 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 |
| 225.00 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 |
| 250.00 | 15-9 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 |
| 275.00 | 19-1 | 19-2 | 19-3 | 19-4 | 19-4 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 |
| 300.00 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 |
| 325.00 | 26-9 | 26-10 | 26-11 | 27-0 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-6 |
| 350.00 | 31-1 | 31-2 | 31-3 | 31-5 | 31-6 | 31-7 | 31-9 | 31-10 | 31-11 | 32-0 |
| 375.00 | 35-8 | 35-10 | 36-0 | 36-1 | 36-3 | 36-4 | 36-6 | 36-7 | 36-8 | 36-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 |
| 225.00 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-1 |
| 250.00 | 15-11 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-2 | 16-2 | 16-2 |
| 275.00 | 19-4 | 19-4 | 19-5 | 19-5 | 19-5 | 19-6 | 19-6 | 19-7 | 19-7 | 19-7 |
| 300.00 | 23-0 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-5 |
| 325.00 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-6 |
| 350.00 | 31-5 | 31-5 | 31-6 | 31-7 | 31-8 | 31-8 | 31-9 | 31-10 | 31-10 | 31-11 |
| 375.00 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 | 36-5 | 36-6 | 36-7 | 36-8 | 36-8 |
| 400.00 | 41-1 | 41-3 | 41-4 | 41-5 | 41-6 | 41-7 | 41-8 | 41-9 | 41-9 | 41-10 |
| 425.00 | 46-6 | 46-7 | 46-9 | 46-10 | 46-11 | 47-0 | 47-1 | 47-2 | 47-3 | 47-4 |
| 450.00 | 52-3 | 52-4 | 52-6 | 52-7 | 52-8 | 52-9 | 52-11 | 53-0 | 53-1 | 53-1 |
| 475.00 | 58-4 | 58-5 | 58-7 | 58-8 | 58-10 | 58-11 | 59-1 | 59-2 | 59-3 | 59-4 |
| 500.00 | 64-9 | 64-11 | 65-0 | 65-2 | 65-4 | 65-5 | 65-7 | 65-8 | 65-9 | 65-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 |
| 225.00 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-1 |
| 250.00 | 15-11 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-2 | 16-2 |
| 275.00 | 19-4 | 19-4 | 19-5 | 19-5 | 19-6 | 19-6 | 19-6 | 19-7 | 19-7 | 19-7 |
| 300.00 | 23-0 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-5 |
| 325.00 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-6 |
| 350.00 | 31-5 | 31-6 | 31-6 | 31-7 | 31-8 | 31-9 | 31-9 | 31-10 | 31-10 | 31-11 |
| 375.00 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-6 | 36-7 | 36-8 | 36-8 |
| 400.00 | 41-2 | 41-3 | 41-4 | 41-5 | 41-6 | 41-7 | 41-8 | 41-9 | 41-9 | 41-10 |
| 425.00 | 46-6 | 46-8 | 46-9 | 46-10 | 46-11 | 47-0 | 47-1 | 47-2 | 47-3 | 47-4 |
| 450.00 | 52-3 | 52-4 | 52-6 | 52-7 | 52-8 | 52-10 | 52-11 | 53-0 | 53-1 | 53-1 |
| 475.00 | 58-4 | 58-6 | 58-7 | 58-8 | 58-10 | 58-11 | 59-1 | 59-2 | 59-3 | 59-4 |
| 500.00 | 64-9 | 64-11 | 65-1 | 65-2 | 65-4 | 65-5 | 65-7 | 65-8 | 65-9 | 65-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-2 | 16-3 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 | 16-4 | 16-4 | 16-4 |
| 275.00 | 19-8 | 19-8 | 19-8 | 19-8 | 19-9 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 |
| 300.00 | 23-5 | 23-5 | 23-5 | 23-6 | 23-6 | 23-6 | 23-7 | 23-7 | 23-7 | 23-8 |
| 325.00 | 27-6 | 27-6 | 27-7 | 27-7 | 27-8 | 27-8 | 27-8 | 27-9 | 27-9 | 27-9 |
| 350.00 | 31-11 | 32-0 | 32-0 | 32-1 | 32-1 | 32-2 | 32-2 | 32-3 | 32-3 | 32-3 |
| 375.00 | 36-9 | 36-9 | 36-10 | 36-10 | 36-11 | 36-11 | 37-0 | 37-0 | 37-1 | 37-1 |
| 400.00 | 41-10 | 41-11 | 41-11 | 42-0 | 42-1 | 42-1 | 42-2 | 42-3 | 42-3 | 42-3 |
| 425.00 | 47-4 | 47-5 | 47-5 | 47-6 | 47-7 | 47-8 | 47-8 | 47-9 | 47-9 | 47-10 |
| 450.00 | 53-2 | 53-3 | 53-4 | 53-4 | 53-5 | 53-6 | 53-7 | 53-8 | 53-8 | 53-9 |
| 475.00 | 59-4 | 59-5 | 59-6 | 59-7 | 59-8 | 59-9 | 59-10 | 59-11 | 59-11 | 60-0 |
| 500.00 | 65-11 | 66-0 | 66-1 | 66-2 | 66-3 | 66-4 | 66-5 | 66-6 | 66-7 | 66-7 |
| 525.00 | 72-10 | 72-11 | 73-0 | 73-1 | 73-2 | 73-4 | 73-5 | 73-6 | 73-6 | 73-7 |
| 550.00 | 80-1 | 80-3 | 80-4 | 80-5 | 80-6 | 80-8 | 80-9 | 80-10 | 80-11 | 81-0 |
| 575.00 | 87-9 | 87-11 | 88-0 | 88-2 | 88-3 | 88-4 | 88-6 | 88-7 | 88-8 | 88-9 |
| 600.00 | 95-10 | 96-0 | 96-1 | 96-3 | 96-4 | 96-6 | 96-7 | 96-8 | 96-9 | 96-10 |
| 625.00 | 104-3 | 104-5 | 104-7 | 104-8 | 104-10 | 104-11 | 105-1 | 105-3 | 105-4 | 105-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-3 | 16-3 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 | 16-4 | 16-4 | 16-4 |
| 275.00 | 19-8 | 19-8 | 19-8 | 19-9 | 19-9 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 |
| 300.00 | 23-5 | 23-5 | 23-5 | 23-6 | 23-6 | 23-7 | 23-7 | 23-7 | 23-7 | 23-8 |
| 325.00 | 27-6 | 27-6 | 27-7 | 27-7 | 27-8 | 27-8 | 27-8 | 27-9 | 27-9 | 27-9 |
| 350.00 | 31-11 | 32-0 | 32-0 | 32-1 | 32-1 | 32-2 | 32-2 | 32-3 | 32-3 | 32-3 |
| 375.00 | 36-9 | 36-9 | 36-10 | 36-10 | 36-11 | 36-11 | 37-0 | 37-0 | 37-1 | 37-1 |
| 400.00 | 41-10 | 41-11 | 42-0 | 42-0 | 42-1 | 42-1 | 42-2 | 42-3 | 42-3 | 42-3 |
| 425.00 | 47-4 | 47-5 | 47-6 | 47-6 | 47-7 | 47-8 | 47-8 | 47-9 | 47-9 | 47-10 |
| 450.00 | 53-2 | 53-3 | 53-4 | 53-5 | 53-5 | 53-6 | 53-7 | 53-8 | 53-8 | 53-9 |
| 475.00 | 59-4 | 59-5 | 59-6 | 59-7 | 59-8 | 59-9 | 59-10 | 59-11 | 59-11 | 60-0 |
| 500.00 | 65-11 | 66-0 | 66-1 | 66-2 | 66-3 | 66-4 | 66-5 | 66-6 | 66-7 | 66-7 |
| 525.00 | 72-10 | 72-11 | 73-0 | 73-2 | 73-3 | 73-4 | 73-5 | 73-6 | 73-6 | 73-7 |
| 550.00 | 80-2 | 80-3 | 80-4 | 80-5 | 80-7 | 80-8 | 80-9 | 80-10 | 80-11 | 81-0 |
| 575.00 | 87-10 | 87-11 | 88-0 | 88-2 | 88-3 | 88-4 | 88-6 | 88-7 | 88-8 | 88-9 |
| 600.00 | 95-10 | 96-0 | 96-1 | 96-3 | 96-4 | 96-6 | 96-7 | 96-8 | 96-9 | 96-10 |
| 625.00 | 104-3 | 104-5 | 104-7 | 104-8 | 104-10 | 105-0 | 105-1 | 105-3 | 105-4 | 105-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 1.64 | 1500 | 1.64 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 1.45 | 679 | 1.42 | 691 |
| 30 | 0 | 0 | 0 | 0.785 | 1.83 | 538 | 1.81 | 544 |
| 40 | 0 | 0 | 0 | 0.785 | 1.93 | 509 | 1.91 | 514 |
| 50 | 0 | 0 | 0 | 0.785 | 2.03 | 483 | 2.01 | 488 |
| 60 | 0 | 0 | 0 | 0.785 | 2.13 | 462 | 2.11 | 466 |
| 70 | 0 | 0 | 0 | 0.785 | 2.22 | 442 | 2.2 | 447 |
| 80 | 0 | 0 | 0 | 0.785 | 2.31 | 425 | 2.29 | 429 |
| 90 | 0 | 0 | 0 | 0.785 | 2.38 | 414 | 2.38 | 414 |
| 100 | 0 | 0 | 0 | 0.785 | 2.43 | 405 | 2.43 | 405 |
| 110 | 0 | 0 | 0 | 0.785 | 2.48 | 397 | 2.48 | 397 |
| 120 | 0 | 0 | 0 | 0.785 | 2.53 | 389 | 2.53 | 389 |
| 130 | 0 | 0 | 0 | 0.785 | 2.58 | 381 | 2.58 | 381 |
| 167 | 0 | 0 | 0 | 0.785 | 2.76 | 357 | 2.76 | 357 |
| 212 | 0 | 0 | 0 | 0.785 | 2.96 | 332 | 2.96 | 332 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 6.59 | 1500 | 6.59 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 6.39 | 617 | 6.36 | 620 |
| 30 | 0 | 0 | 0 | 0.785 | 6.79 | 580 | 6.77 | 582 |
| 40 | 0 | 0 | 0 | 0.785 | 6.91 | 571 | 6.89 | 572 |
| 50 | 0 | 0 | 0 | 0.785 | 7.03 | 561 | 7.01 | 563 |
| 60 | 0 | 0 | 0 | 0.785 | 7.15 | 552 | 7.12 | 554 |
| 70 | 0 | 0 | 0 | 0.785 | 7.26 | 544 | 7.23 | 545 |
| 80 | 0 | 0 | 0 | 0.785 | 7.37 | 535 | 7.35 | 537 |
| 90 | 0 | 0 | 0 | 0.785 | 7.48 | 527 | 7.46 | 529 |
| 100 | 0 | 0 | 0 | 0.785 | 7.57 | 522 | 7.57 | 522 |
| 110 | 0 | 0 | 0 | 0.785 | 7.64 | 517 | 7.64 | 517 |
| 120 | 0 | 0 | 0 | 0.785 | 7.7 | 512 | 7.7 | 512 |
| 130 | 0 | 0 | 0 | 0.785 | 7.77 | 508 | 7.77 | 508 |
| 167 | 0 | 0 | 0 | 0.785 | 8.02 | 493 | 8.02 | 493 |
| 212 | 0 | 0 | 0 | 0.785 | 8.31 | 476 | 8.31 | 476 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 14.92 | 1500 | 14.92 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 14.71 | 606 | 14.68 | 607 |
| 30 | 0 | 0 | 0 | 0.785 | 15.12 | 590 | 15.1 | 591 |
| 40 | 0 | 0 | 0 | 0.785 | 15.24 | 585 | 15.22 | 586 |
| 50 | 0 | 0 | 0 | 0.785 | 15.36 | 581 | 15.34 | 582 |
| 60 | 0 | 0 | 0 | 0.785 | 15.49 | 576 | 15.46 | 577 |
| 70 | 0 | 0 | 0 | 0.785 | 15.61 | 572 | 15.58 | 573 |
| 80 | 0 | 0 | 0 | 0.785 | 15.73 | 568 | 15.7 | 569 |
| 90 | 0 | 0 | 0 | 0.785 | 15.84 | 564 | 15.82 | 565 |
| 100 | 0 | 0 | 0 | 0.785 | 15.95 | 560 | 15.93 | 561 |
| 110 | 0 | 0 | 0 | 0.785 | 16.02 | 557 | 16.02 | 557 |
| 120 | 0 | 0 | 0 | 0.785 | 16.1 | 555 | 16.1 | 555 |
| 130 | 0 | 0 | 0 | 0.785 | 16.17 | 552 | 16.17 | 552 |
| 167 | 0 | 0 | 0 | 0.785 | 16.45 | 543 | 16.45 | 543 |
| 212 | 0 | 0 | 0 | 0.785 | 16.78 | 533 | 16.78 | 533 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 26.73 | 1500 | 26.73 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 26.52 | 602 | 26.49 | 603 |
| 30 | 0 | 0 | 0 | 0.785 | 26.93 | 594 | 26.91 | 594 |
| 40 | 0 | 0 | 0 | 0.785 | 27.06 | 591 | 27.03 | 591 |
| 50 | 0 | 0 | 0 | 0.785 | 27.18 | 588 | 27.16 | 589 |
| 60 | 0 | 0 | 0 | 0.785 | 27.3 | 586 | 27.28 | 586 |
| 70 | 0 | 0 | 0 | 0.785 | 27.43 | 583 | 27.4 | 584 |
| 80 | 0 | 0 | 0 | 0.785 | 27.55 | 581 | 27.52 | 581 |
| 90 | 0 | 0 | 0 | 0.785 | 27.67 | 578 | 27.64 | 579 |
| 100 | 0 | 0 | 0 | 0.785 | 27.78 | 576 | 27.76 | 576 |
| 110 | 0 | 0 | 0 | 0.785 | 27.86 | 574 | 27.86 | 574 |
| 120 | 0 | 0 | 0 | 0.785 | 27.94 | 573 | 27.94 | 573 |
| 130 | 0 | 0 | 0 | 0.785 | 28.02 | 571 | 28.02 | 571 |
| 167 | 0 | 0 | 0 | 0.785 | 28.3 | 566 | 28.3 | 566 |
| 212 | 0 | 0 | 0 | 0.785 | 28.65 | 559 | 28.65 | 559 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 42.2 | 1500 | 42.2 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 42 | 601 | 41.97 | 601 |
| 30 | 0 | 0 | 0 | 0.785 | 42.41 | 595 | 42.38 | 595 |
| 40 | 0 | 0 | 0 | 0.785 | 42.53 | 594 | 42.51 | 594 |
| 50 | 0 | 0 | 0 | 0.785 | 42.66 | 592 | 42.63 | 592 |
| 60 | 0 | 0 | 0 | 0.785 | 42.78 | 590 | 42.75 | 591 |
| 70 | 0 | 0 | 0 | 0.785 | 42.9 | 589 | 42.88 | 589 |
| 80 | 0 | 0 | 0 | 0.785 | 43.03 | 587 | 43 | 587 |
| 90 | 0 | 0 | 0 | 0.785 | 43.15 | 585 | 43.12 | 586 |
| 100 | 0 | 0 | 0 | 0.785 | 43.27 | 584 | 43.24 | 584 |
| 110 | 0 | 0 | 0 | 0.785 | 43.35 | 583 | 43.35 | 583 |
| 120 | 0 | 0 | 0 | 0.785 | 43.43 | 582 | 43.43 | 582 |
| 130 | 0 | 0 | 0 | 0.785 | 43.51 | 581 | 43.51 | 581 |
| 167 | 0 | 0 | 0 | 0.785 | 43.8 | 577 | 43.8 | 577 |
| 212 | 0 | 0 | 0 | 0.785 | 44.15 | 573 | 44.15 | 573 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 |
| 100.00 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-5 | 2-6 |
| 125.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 | 3-10 | 3-11 |
| 150.00 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 | 5-7 |
| 175.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-0 | 7-3 | 7-5 | 7-7 |
| 200.00 | 6-9 | 7-3 | 7-8 | 8-1 | 8-5 | 8-10 | 9-2 | 9-6 | 9-9 | 9-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 |
| 100.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 |
| 125.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 |
| 150.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 |
| 175.00 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 |
| 200.00 | 6-10 | 7-4 | 7-9 | 8-2 | 8-6 | 8-11 | 9-3 | 9-6 | 9-9 | 9-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 |
| 125.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 |
| 150.00 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 175.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 200.00 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 |
| 225.00 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 |
| 250.00 | 10-5 | 10-7 | 10-9 | 10-11 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 11-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 |
| 125.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 |
| 150.00 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 175.00 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 |
| 200.00 | 6-8 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 |
| 225.00 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-7 | 9-8 |
| 250.00 | 10-5 | 10-7 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 11-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 |
| 175.00 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 |
| 200.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 |
| 225.00 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 |
| 250.00 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 |
| 275.00 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-5 | 13-5 |
| 300.00 | 15-0 | 15-1 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 |
| 325.00 | 17-7 | 17-9 | 17-10 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-9 | 18-10 |
| 350.00 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 21-10 |
| 375.00 | 23-5 | 23-8 | 23-10 | 24-0 | 24-2 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 |
| 175.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 |
| 200.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 |
| 225.00 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 |
| 250.00 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 |
| 275.00 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-4 | 13-5 | 13-5 |
| 300.00 | 15-0 | 15-1 | 15-3 | 15-4 | 15-6 | 15-7 | 15-9 | 15-10 | 15-11 | 16-0 |
| 325.00 | 17-7 | 17-9 | 17-11 | 18-1 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-10 |
| 350.00 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 21-10 |
| 375.00 | 23-6 | 23-8 | 23-10 | 24-1 | 24-3 | 24-5 | 24-7 | 24-10 | 25-0 | 25-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 |
| 225.00 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 |
| 250.00 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 |
| 275.00 | 12-7 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 |
| 300.00 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 |
| 325.00 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 |
| 350.00 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 |
| 375.00 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-5 | 24-6 |
| 400.00 | 26-9 | 26-11 | 27-0 | 27-2 | 27-3 | 27-5 | 27-6 | 27-8 | 27-9 | 27-10 |
| 425.00 | 30-3 | 30-5 | 30-7 | 30-8 | 30-10 | 30-11 | 31-1 | 31-3 | 31-4 | 31-6 |
| 450.00 | 33-11 | 34-1 | 34-3 | 34-5 | 34-7 | 34-9 | 34-11 | 35-1 | 35-2 | 35-4 |
| 475.00 | 37-10 | 38-0 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-1 | 39-3 | 39-5 |
| 500.00 | 42-0 | 42-2 | 42-5 | 42-7 | 42-9 | 43-0 | 43-2 | 43-4 | 43-6 | 43-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 |
| 225.00 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 |
| 250.00 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 |
| 275.00 | 12-8 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 |
| 300.00 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 | 15-7 | 15-8 |
| 325.00 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-4 | 18-4 |
| 350.00 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 |
| 375.00 | 23-7 | 23-8 | 23-9 | 23-10 | 24-0 | 24-1 | 24-2 | 24-4 | 24-5 | 24-6 |
| 400.00 | 26-10 | 26-11 | 27-1 | 27-2 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 | 27-10 |
| 425.00 | 30-3 | 30-5 | 30-7 | 30-8 | 30-10 | 31-0 | 31-1 | 31-3 | 31-5 | 31-6 |
| 450.00 | 34-0 | 34-2 | 34-4 | 34-5 | 34-7 | 34-9 | 34-11 | 35-1 | 35-3 | 35-4 |
| 475.00 | 37-11 | 38-1 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-1 | 39-3 | 39-5 |
| 500.00 | 42-0 | 42-3 | 42-5 | 42-7 | 42-10 | 43-0 | 43-2 | 43-5 | 43-7 | 43-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 |
| 275.00 | 12-8 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 |
| 300.00 | 15-1 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 |
| 325.00 | 17-9 | 17-10 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 |
| 350.00 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 |
| 375.00 | 23-8 | 23-9 | 23-10 | 23-11 | 23-11 | 24-0 | 24-1 | 24-2 | 24-3 | 24-3 |
| 400.00 | 26-11 | 27-0 | 27-1 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 |
| 425.00 | 30-5 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 |
| 450.00 | 34-2 | 34-3 | 34-4 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 | 35-0 | 35-1 |
| 475.00 | 38-1 | 38-3 | 38-4 | 38-5 | 38-7 | 38-8 | 38-9 | 38-11 | 39-0 | 39-1 |
| 500.00 | 42-3 | 42-5 | 42-6 | 42-8 | 42-9 | 42-11 | 43-0 | 43-1 | 43-3 | 43-4 |
| 525.00 | 46-8 | 46-9 | 46-11 | 47-1 | 47-2 | 47-4 | 47-5 | 47-7 | 47-9 | 47-10 |
| 550.00 | 51-3 | 51-5 | 51-6 | 51-8 | 51-10 | 52-0 | 52-2 | 52-3 | 52-5 | 52-7 |
| 575.00 | 56-1 | 56-3 | 56-5 | 56-7 | 56-9 | 56-11 | 57-1 | 57-2 | 57-4 | 57-6 |
| 600.00 | 61-1 | 61-3 | 61-6 | 61-8 | 61-10 | 62-0 | 62-2 | 62-4 | 62-6 | 62-8 |
| 625.00 | 66-4 | 66-7 | 66-9 | 67-0 | 67-2 | 67-4 | 67-7 | 67-9 | 67-11 | 68-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 |
| 275.00 | 12-8 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 |
| 300.00 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 |
| 325.00 | 17-9 | 17-10 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 |
| 350.00 | 20-7 | 20-8 | 20-9 | 20-10 | 20-10 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 |
| 375.00 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 | 24-0 | 24-1 | 24-2 | 24-3 | 24-3 |
| 400.00 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 |
| 425.00 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 |
| 450.00 | 34-2 | 34-3 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 | 34-11 | 35-0 | 35-1 |
| 475.00 | 38-1 | 38-3 | 38-4 | 38-6 | 38-7 | 38-8 | 38-10 | 38-11 | 39-0 | 39-1 |
| 500.00 | 42-3 | 42-5 | 42-6 | 42-8 | 42-9 | 42-11 | 43-0 | 43-2 | 43-3 | 43-4 |
| 525.00 | 46-8 | 46-10 | 46-11 | 47-1 | 47-3 | 47-4 | 47-6 | 47-7 | 47-9 | 47-10 |
| 550.00 | 51-3 | 51-5 | 51-7 | 51-9 | 51-10 | 52-0 | 52-2 | 52-4 | 52-6 | 52-7 |
| 575.00 | 56-1 | 56-3 | 56-5 | 56-7 | 56-9 | 56-11 | 57-1 | 57-3 | 57-5 | 57-6 |
| 600.00 | 61-2 | 61-4 | 61-6 | 61-8 | 61-10 | 62-1 | 62-3 | 62-5 | 62-7 | 62-8 |
| 625.00 | 66-5 | 66-7 | 66-10 | 67-0 | 67-2 | 67-5 | 67-7 | 67-9 | 68-0 | 68-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 1.23 | 2000 | 1.23 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 0.95 | 1030 | 0.92 | 1062 |
| 30 | 0 | 0 | 0 | 0.785 | 1.39 | 704 | 1.36 | 722 |
| 40 | 0 | 0 | 0 | 0.785 | 1.52 | 644 | 1.49 | 660 |
| 50 | 0 | 0 | 0 | 0.785 | 1.65 | 597 | 1.61 | 610 |
| 60 | 0 | 0 | 0 | 0.785 | 1.76 | 558 | 1.73 | 569 |
| 70 | 0 | 0 | 0 | 0.785 | 1.87 | 526 | 1.83 | 536 |
| 80 | 0 | 0 | 0 | 0.785 | 1.97 | 498 | 1.94 | 507 |
| 90 | 0 | 0 | 0 | 0.785 | 2.06 | 478 | 2.04 | 482 |
| 100 | 0 | 0 | 0 | 0.785 | 2.12 | 464 | 2.12 | 464 |
| 110 | 0 | 0 | 0 | 0.785 | 2.17 | 452 | 2.17 | 452 |
| 120 | 0 | 0 | 0 | 0.785 | 2.23 | 441 | 2.23 | 441 |
| 130 | 0 | 0 | 0 | 0.785 | 2.29 | 430 | 2.29 | 430 |
| 167 | 0 | 0 | 0 | 0.785 | 2.48 | 396 | 2.48 | 396 |
| 212 | 0 | 0 | 0 | 0.785 | 2.7 | 364 | 2.7 | 364 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 4.94 | 1998 | 4.94 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 4.63 | 850 | 4.57 | 860 |
| 30 | 0 | 0 | 0 | 0.785 | 5.13 | 768 | 5.08 | 774 |
| 40 | 0 | 0 | 0 | 0.785 | 5.28 | 745 | 5.24 | 752 |
| 50 | 0 | 0 | 0 | 0.785 | 5.43 | 725 | 5.39 | 731 |
| 60 | 0 | 0 | 0 | 0.785 | 5.58 | 706 | 5.53 | 712 |
| 70 | 0 | 0 | 0 | 0.785 | 5.72 | 688 | 5.67 | 694 |
| 80 | 0 | 0 | 0 | 0.785 | 5.86 | 672 | 5.81 | 677 |
| 90 | 0 | 0 | 0 | 0.785 | 6 | 657 | 5.95 | 662 |
| 100 | 0 | 0 | 0 | 0.785 | 6.13 | 643 | 6.08 | 648 |
| 110 | 0 | 0 | 0 | 0.785 | 6.22 | 634 | 6.21 | 634 |
| 120 | 0 | 0 | 0 | 0.785 | 6.3 | 625 | 6.3 | 625 |
| 130 | 0 | 0 | 0 | 0.785 | 6.38 | 618 | 6.38 | 618 |
| 167 | 0 | 0 | 0 | 0.785 | 6.67 | 591 | 6.67 | 591 |
| 212 | 0 | 0 | 0 | 0.785 | 7.01 | 562 | 7.01 | 562 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 11.16 | 1997 | 11.14 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 10.85 | 819 | 10.77 | 824 |
| 30 | 0 | 0 | 0 | 0.785 | 11.35 | 783 | 11.29 | 787 |
| 40 | 0 | 0 | 0 | 0.785 | 11.51 | 772 | 11.45 | 776 |
| 50 | 0 | 0 | 0 | 0.785 | 11.67 | 761 | 11.61 | 765 |
| 60 | 0 | 0 | 0 | 0.785 | 11.83 | 751 | 11.76 | 755 |
| 70 | 0 | 0 | 0 | 0.785 | 11.98 | 742 | 11.92 | 746 |
| 80 | 0 | 0 | 0 | 0.785 | 12.13 | 733 | 12.07 | 736 |
| 90 | 0 | 0 | 0 | 0.785 | 12.29 | 724 | 12.22 | 727 |
| 100 | 0 | 0 | 0 | 0.785 | 12.44 | 715 | 12.37 | 719 |
| 110 | 0 | 0 | 0 | 0.785 | 12.56 | 708 | 12.52 | 710 |
| 120 | 0 | 0 | 0 | 0.785 | 12.65 | 703 | 12.65 | 703 |
| 130 | 0 | 0 | 0 | 0.785 | 12.75 | 698 | 12.75 | 698 |
| 167 | 0 | 0 | 0 | 0.785 | 13.08 | 680 | 13.08 | 680 |
| 212 | 0 | 0 | 0 | 0.785 | 13.48 | 660 | 13.48 | 660 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 19.91 | 1998 | 19.89 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 19.6 | 809 | 19.52 | 812 |
| 30 | 0 | 0 | 0 | 0.785 | 20.11 | 789 | 20.04 | 791 |
| 40 | 0 | 0 | 0 | 0.785 | 20.27 | 783 | 20.2 | 785 |
| 50 | 0 | 0 | 0 | 0.785 | 20.43 | 776 | 20.37 | 779 |
| 60 | 0 | 0 | 0 | 0.785 | 20.59 | 770 | 20.53 | 773 |
| 70 | 0 | 0 | 0 | 0.785 | 20.75 | 765 | 20.69 | 767 |
| 80 | 0 | 0 | 0 | 0.785 | 20.91 | 759 | 20.84 | 761 |
| 90 | 0 | 0 | 0 | 0.785 | 21.07 | 753 | 21 | 756 |
| 100 | 0 | 0 | 0 | 0.785 | 21.23 | 748 | 21.16 | 750 |
| 110 | 0 | 0 | 0 | 0.785 | 21.37 | 743 | 21.31 | 745 |
| 120 | 0 | 0 | 0 | 0.785 | 21.47 | 740 | 21.47 | 740 |
| 130 | 0 | 0 | 0 | 0.785 | 21.57 | 736 | 21.57 | 736 |
| 167 | 0 | 0 | 0 | 0.785 | 21.93 | 724 | 21.93 | 724 |
| 212 | 0 | 0 | 0 | 0.785 | 22.37 | 711 | 22.37 | 711 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 31.28 | 1999 | 31.25 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 30.97 | 804 | 30.88 | 807 |
| 30 | 0 | 0 | 0 | 0.785 | 31.47 | 792 | 31.41 | 793 |
| 40 | 0 | 0 | 0 | 0.785 | 31.64 | 788 | 31.57 | 789 |
| 50 | 0 | 0 | 0 | 0.785 | 31.8 | 784 | 31.73 | 785 |
| 60 | 0 | 0 | 0 | 0.785 | 31.97 | 780 | 31.9 | 782 |
| 70 | 0 | 0 | 0 | 0.785 | 32.13 | 776 | 32.06 | 778 |
| 80 | 0 | 0 | 0 | 0.785 | 32.29 | 772 | 32.22 | 774 |
| 90 | 0 | 0 | 0 | 0.785 | 32.45 | 769 | 32.38 | 770 |
| 100 | 0 | 0 | 0 | 0.785 | 32.61 | 765 | 32.54 | 767 |
| 110 | 0 | 0 | 0 | 0.785 | 32.77 | 761 | 32.7 | 763 |
| 120 | 0 | 0 | 0 | 0.785 | 32.87 | 759 | 32.86 | 760 |
| 130 | 0 | 0 | 0 | 0.785 | 32.98 | 757 | 32.98 | 757 |
| 167 | 0 | 0 | 0 | 0.785 | 33.35 | 749 | 33.35 | 749 |
| 212 | 0 | 0 | 0 | 0.785 | 33.8 | 739 | 33.8 | 739 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 125.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 |
| 150.00 | 2-9 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 |
| 175.00 | 3-9 | 4-2 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-8 |
| 200.00 | 4-11 | 5-5 | 6-0 | 6-5 | 6-11 | 7-4 | 7-9 | 8-2 | 8-6 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-1 | 2-2 |
| 125.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-5 |
| 150.00 | 2-10 | 3-2 | 3-5 | 3-8 | 4-0 | 4-2 | 4-5 | 4-8 | 4-9 | 4-11 |
| 175.00 | 3-10 | 4-3 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-6 | 6-8 |
| 200.00 | 5-0 | 5-7 | 6-1 | 6-7 | 7-1 | 7-6 | 7-11 | 8-3 | 8-6 | 8-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 125.00 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 |
| 150.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 175.00 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 |
| 200.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 |
| 225.00 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 |
| 250.00 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 |
| 125.00 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 |
| 150.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 |
| 175.00 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 200.00 | 5-0 | 5-2 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-3 |
| 225.00 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 |
| 250.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 | 9-5 | 9-7 | 9-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 |
| 175.00 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 |
| 200.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 225.00 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 |
| 250.00 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-8 |
| 275.00 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 |
| 300.00 | 11-2 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-4 | 12-6 |
| 325.00 | 13-1 | 13-3 | 13-5 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 |
| 350.00 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 | 16-3 | 16-5 | 16-8 | 16-10 | 17-1 |
| 375.00 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-1 | 19-4 | 19-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 |
| 175.00 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 |
| 200.00 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 |
| 225.00 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 250.00 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 |
| 275.00 | 9-5 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 |
| 300.00 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 | 12-5 | 12-7 |
| 325.00 | 13-2 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 |
| 350.00 | 15-3 | 15-5 | 15-8 | 15-11 | 16-1 | 16-4 | 16-6 | 16-9 | 16-11 | 17-1 |
| 375.00 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 19-0 | 19-3 | 19-5 | 19-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 |
| 225.00 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 |
| 250.00 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-4 |
| 275.00 | 9-5 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 |
| 300.00 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 |
| 325.00 | 13-1 | 13-3 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 |
| 350.00 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 | 15-10 | 15-11 | 16-1 | 16-2 | 16-4 |
| 375.00 | 17-6 | 17-7 | 17-9 | 17-11 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-9 |
| 400.00 | 19-11 | 20-1 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 |
| 425.00 | 22-5 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 | 23-7 | 23-9 | 23-11 | 24-1 |
| 450.00 | 25-2 | 25-5 | 25-7 | 25-10 | 26-0 | 26-2 | 26-5 | 26-7 | 26-10 | 27-0 |
| 475.00 | 28-1 | 28-4 | 28-6 | 28-9 | 29-0 | 29-3 | 29-5 | 29-8 | 29-11 | 30-1 |
| 500.00 | 31-1 | 31-4 | 31-8 | 31-11 | 32-2 | 32-5 | 32-8 | 32-11 | 33-2 | 33-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 225.00 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 |
| 250.00 | 7-9 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 |
| 275.00 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 |
| 300.00 | 11-2 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 |
| 325.00 | 13-2 | 13-3 | 13-4 | 13-6 | 13-7 | 13-8 | 13-9 | 13-11 | 14-0 | 14-1 |
| 350.00 | 15-3 | 15-5 | 15-6 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-3 | 16-4 |
| 375.00 | 17-6 | 17-8 | 17-10 | 17-11 | 18-1 | 18-3 | 18-4 | 18-6 | 18-8 | 18-9 |
| 400.00 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-4 |
| 425.00 | 22-6 | 22-8 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-10 | 24-0 | 24-2 |
| 450.00 | 25-3 | 25-6 | 25-8 | 25-11 | 26-1 | 26-4 | 26-6 | 26-8 | 26-11 | 27-1 |
| 475.00 | 28-2 | 28-5 | 28-7 | 28-10 | 29-1 | 29-4 | 29-6 | 29-9 | 30-0 | 30-2 |
| 500.00 | 31-3 | 31-6 | 31-9 | 32-0 | 32-3 | 32-6 | 32-9 | 33-0 | 33-3 | 33-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 |
| 275.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 |
| 300.00 | 11-3 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-9 |
| 325.00 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 |
| 350.00 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 |
| 375.00 | 17-6 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-4 |
| 400.00 | 19-11 | 20-1 | 20-2 | 20-3 | 20-4 | 20-6 | 20-7 | 20-8 | 20-9 | 20-11 |
| 425.00 | 22-6 | 22-8 | 22-9 | 22-11 | 23-0 | 23-2 | 23-3 | 23-4 | 23-6 | 23-7 |
| 450.00 | 25-3 | 25-5 | 25-7 | 25-8 | 25-10 | 25-11 | 26-1 | 26-2 | 26-4 | 26-5 |
| 475.00 | 28-2 | 28-4 | 28-6 | 28-8 | 28-9 | 28-11 | 29-1 | 29-2 | 29-4 | 29-6 |
| 500.00 | 31-3 | 31-5 | 31-7 | 31-9 | 31-11 | 32-1 | 32-3 | 32-5 | 32-6 | 32-8 |
| 525.00 | 34-6 | 34-8 | 34-10 | 35-0 | 35-2 | 35-4 | 35-7 | 35-9 | 35-11 | 36-1 |
| 550.00 | 37-10 | 38-1 | 38-3 | 38-5 | 38-8 | 38-10 | 39-0 | 39-3 | 39-5 | 39-7 |
| 575.00 | 41-5 | 41-7 | 41-10 | 42-0 | 42-3 | 42-6 | 42-8 | 42-11 | 43-1 | 43-4 |
| 600.00 | 45-1 | 45-4 | 45-7 | 45-10 | 46-0 | 46-3 | 46-6 | 46-9 | 47-0 | 47-2 |
| 625.00 | 48-11 | 49-3 | 49-6 | 49-9 | 50-0 | 50-3 | 50-6 | 50-9 | 51-0 | 51-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 |
| 275.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 |
| 300.00 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 |
| 325.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 |
| 350.00 | 15-4 | 15-5 | 15-6 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 |
| 375.00 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-3 | 18-4 | 18-5 |
| 400.00 | 20-0 | 20-1 | 20-3 | 20-4 | 20-5 | 20-6 | 20-8 | 20-9 | 20-10 | 20-11 |
| 425.00 | 22-7 | 22-8 | 22-10 | 22-11 | 23-1 | 23-2 | 23-4 | 23-5 | 23-6 | 23-8 |
| 450.00 | 25-4 | 25-6 | 25-7 | 25-9 | 25-10 | 26-0 | 26-2 | 26-3 | 26-5 | 26-6 |
| 475.00 | 28-3 | 28-5 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-3 | 29-5 | 29-7 |
| 500.00 | 31-4 | 31-6 | 31-8 | 31-10 | 32-0 | 32-2 | 32-4 | 32-5 | 32-7 | 32-9 |
| 525.00 | 34-6 | 34-9 | 34-11 | 35-1 | 35-3 | 35-5 | 35-7 | 35-10 | 36-0 | 36-2 |
| 550.00 | 37-11 | 38-1 | 38-4 | 38-6 | 38-9 | 38-11 | 39-1 | 39-4 | 39-6 | 39-8 |
| 575.00 | 41-6 | 41-8 | 41-11 | 42-2 | 42-4 | 42-7 | 42-9 | 43-0 | 43-3 | 43-5 |
| 600.00 | 45-2 | 45-5 | 45-8 | 45-11 | 46-2 | 46-5 | 46-7 | 46-10 | 47-1 | 47-4 |
| 625.00 | 49-1 | 49-4 | 49-7 | 49-10 | 50-1 | 50-4 | 50-7 | 50-10 | 51-1 | 51-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 0.99 | 2500 | 0.99 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 0.62 | 1574 | 0.6 | 1643 |
| 30 | 0 | 0 | 0 | 0.785 | 1.1 | 895 | 1.04 | 940 |
| 40 | 0 | 0 | 0 | 0.785 | 1.25 | 788 | 1.19 | 824 |
| 50 | 0 | 0 | 0 | 0.785 | 1.38 | 709 | 1.33 | 737 |
| 60 | 0 | 0 | 0 | 0.785 | 1.51 | 649 | 1.46 | 672 |
| 70 | 0 | 0 | 0 | 0.785 | 1.64 | 600 | 1.59 | 619 |
| 80 | 0 | 0 | 0 | 0.785 | 1.75 | 561 | 1.7 | 577 |
| 90 | 0 | 0 | 0 | 0.785 | 1.85 | 530 | 1.81 | 542 |
| 100 | 0 | 0 | 0 | 0.785 | 1.92 | 513 | 1.92 | 513 |
| 110 | 0 | 0 | 0 | 0.785 | 1.98 | 497 | 1.98 | 497 |
| 120 | 0 | 0 | 0 | 0.785 | 2.04 | 482 | 2.04 | 482 |
| 130 | 0 | 0 | 0 | 0.785 | 2.1 | 469 | 2.1 | 469 |
| 167 | 0 | 0 | 0 | 0.785 | 2.3 | 427 | 2.3 | 427 |
| 212 | 0 | 0 | 0 | 0.785 | 2.54 | 387 | 2.54 | 387 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 3.97 | 2485 | 3.94 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 3.51 | 1120 | 3.42 | 1148 |
| 30 | 0 | 0 | 0 | 0.785 | 4.11 | 957 | 4.02 | 978 |
| 40 | 0 | 0 | 0 | 0.785 | 4.29 | 916 | 4.2 | 935 |
| 50 | 0 | 0 | 0 | 0.785 | 4.47 | 879 | 4.38 | 897 |
| 60 | 0 | 0 | 0 | 0.785 | 4.65 | 847 | 4.56 | 863 |
| 70 | 0 | 0 | 0 | 0.785 | 4.81 | 817 | 4.72 | 833 |
| 80 | 0 | 0 | 0 | 0.785 | 4.98 | 791 | 4.89 | 805 |
| 90 | 0 | 0 | 0 | 0.785 | 5.13 | 766 | 5.05 | 780 |
| 100 | 0 | 0 | 0 | 0.785 | 5.29 | 744 | 5.2 | 757 |
| 110 | 0 | 0 | 0 | 0.785 | 5.4 | 729 | 5.35 | 736 |
| 120 | 0 | 0 | 0 | 0.785 | 5.49 | 717 | 5.49 | 717 |
| 130 | 0 | 0 | 0 | 0.785 | 5.58 | 705 | 5.58 | 705 |
| 167 | 0 | 0 | 0 | 0.785 | 5.91 | 667 | 5.91 | 667 |
| 212 | 0 | 0 | 0 | 0.785 | 6.28 | 627 | 6.28 | 627 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 8.94 | 2487 | 8.89 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 8.47 | 1046 | 8.36 | 1060 |
| 30 | 0 | 0 | 0 | 0.785 | 9.09 | 975 | 8.97 | 988 |
| 40 | 0 | 0 | 0 | 0.785 | 9.29 | 955 | 9.17 | 967 |
| 50 | 0 | 0 | 0 | 0.785 | 9.48 | 935 | 9.36 | 947 |
| 60 | 0 | 0 | 0 | 0.785 | 9.67 | 917 | 9.55 | 928 |
| 70 | 0 | 0 | 0 | 0.785 | 9.86 | 900 | 9.74 | 911 |
| 80 | 0 | 0 | 0 | 0.785 | 10.04 | 884 | 9.92 | 894 |
| 90 | 0 | 0 | 0 | 0.785 | 10.22 | 868 | 10.1 | 878 |
| 100 | 0 | 0 | 0 | 0.785 | 10.4 | 853 | 10.28 | 863 |
| 110 | 0 | 0 | 0 | 0.785 | 10.57 | 840 | 10.45 | 849 |
| 120 | 0 | 0 | 0 | 0.785 | 10.68 | 831 | 10.62 | 835 |
| 130 | 0 | 0 | 0 | 0.785 | 10.79 | 823 | 10.79 | 823 |
| 167 | 0 | 0 | 0 | 0.785 | 11.18 | 794 | 11.18 | 794 |
| 212 | 0 | 0 | 0 | 0.785 | 11.63 | 764 | 11.63 | 764 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 15.91 | 2491 | 15.85 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 15.44 | 1023 | 15.32 | 1031 |
| 30 | 0 | 0 | 0 | 0.785 | 16.06 | 984 | 15.93 | 992 |
| 40 | 0 | 0 | 0 | 0.785 | 16.27 | 972 | 16.13 | 979 |
| 50 | 0 | 0 | 0 | 0.785 | 16.47 | 960 | 16.33 | 968 |
| 60 | 0 | 0 | 0 | 0.785 | 16.66 | 949 | 16.53 | 956 |
| 70 | 0 | 0 | 0 | 0.785 | 16.86 | 938 | 16.73 | 945 |
| 80 | 0 | 0 | 0 | 0.785 | 17.05 | 927 | 16.92 | 935 |
| 90 | 0 | 0 | 0 | 0.785 | 17.24 | 917 | 17.11 | 924 |
| 100 | 0 | 0 | 0 | 0.785 | 17.43 | 907 | 17.3 | 914 |
| 110 | 0 | 0 | 0 | 0.785 | 17.62 | 898 | 17.48 | 905 |
| 120 | 0 | 0 | 0 | 0.785 | 17.76 | 891 | 17.67 | 895 |
| 130 | 0 | 0 | 0 | 0.785 | 17.88 | 885 | 17.85 | 886 |
| 167 | 0 | 0 | 0 | 0.785 | 18.31 | 865 | 18.31 | 865 |
| 212 | 0 | 0 | 0 | 0.785 | 18.82 | 842 | 18.82 | 842 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 24.93 | 2493 | 24.86 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 24.45 | 1013 | 24.32 | 1018 |
| 30 | 0 | 0 | 0 | 0.785 | 25.08 | 988 | 24.94 | 993 |
| 40 | 0 | 0 | 0 | 0.785 | 25.28 | 980 | 25.14 | 985 |
| 50 | 0 | 0 | 0 | 0.785 | 25.49 | 973 | 25.35 | 978 |
| 60 | 0 | 0 | 0 | 0.785 | 25.69 | 965 | 25.55 | 970 |
| 70 | 0 | 0 | 0 | 0.785 | 25.89 | 958 | 25.75 | 963 |
| 80 | 0 | 0 | 0 | 0.785 | 26.09 | 951 | 25.94 | 956 |
| 90 | 0 | 0 | 0 | 0.785 | 26.29 | 944 | 26.14 | 949 |
| 100 | 0 | 0 | 0 | 0.785 | 26.48 | 937 | 26.34 | 942 |
| 110 | 0 | 0 | 0 | 0.785 | 26.68 | 930 | 26.53 | 935 |
| 120 | 0 | 0 | 0 | 0.785 | 26.84 | 925 | 26.72 | 929 |
| 130 | 0 | 0 | 0 | 0.785 | 26.96 | 920 | 26.91 | 922 |
| 167 | 0 | 0 | 0 | 0.785 | 27.42 | 905 | 27.42 | 905 |
| 212 | 0 | 0 | 0 | 0.785 | 27.96 | 888 | 27.96 | 888 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 100.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-5 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 |
| 150.00 | 2-0 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 | 4-4 | 4-5 |
| 175.00 | 2-9 | 3-2 | 3-8 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 | 5-10 | 6-1 |
| 200.00 | 3-7 | 4-2 | 4-9 | 5-4 | 5-10 | 6-4 | 6-10 | 7-3 | 7-8 | 7-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-1 |
| 100.00 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-0 | 3-1 |
| 150.00 | 2-1 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 | 4-5 |
| 175.00 | 2-11 | 3-4 | 3-10 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-10 | 6-1 |
| 200.00 | 3-9 | 4-5 | 5-0 | 5-7 | 6-1 | 6-7 | 7-0 | 7-5 | 7-8 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 |
| 150.00 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 175.00 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 |
| 200.00 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 |
| 225.00 | 4-10 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 |
| 250.00 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-0 |
| 175.00 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 |
| 200.00 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 |
| 225.00 | 5-0 | 5-2 | 5-5 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-10 |
| 250.00 | 6-1 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 175.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 225.00 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 |
| 250.00 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 |
| 275.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 |
| 300.00 | 8-9 | 9-0 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 |
| 325.00 | 10-4 | 10-6 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-10 | 12-1 | 12-3 |
| 350.00 | 11-11 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 |
| 375.00 | 13-9 | 14-0 | 14-4 | 14-8 | 14-11 | 15-3 | 15-6 | 15-10 | 16-1 | 16-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 |
| 175.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 |
| 225.00 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 |
| 250.00 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 |
| 275.00 | 7-6 | 7-8 | 7-10 | 8-0 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 |
| 300.00 | 8-11 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-0 | 10-3 | 10-5 | 10-7 |
| 325.00 | 10-5 | 10-8 | 10-11 | 11-2 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 | 12-5 |
| 350.00 | 12-1 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-11 | 14-2 | 14-5 |
| 375.00 | 13-11 | 14-3 | 14-6 | 14-10 | 15-1 | 15-5 | 15-8 | 16-0 | 16-3 | 16-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 |
| 225.00 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 |
| 250.00 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 275.00 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 300.00 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 |
| 325.00 | 10-5 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 |
| 350.00 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 | 13-3 | 13-5 |
| 375.00 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 |
| 400.00 | 15-9 | 15-11 | 16-2 | 16-4 | 16-6 | 16-9 | 16-11 | 17-1 | 17-4 | 17-6 |
| 425.00 | 17-9 | 18-0 | 18-3 | 18-5 | 18-8 | 18-11 | 19-1 | 19-4 | 19-6 | 19-9 |
| 450.00 | 19-11 | 20-2 | 20-5 | 20-8 | 20-11 | 21-2 | 21-5 | 21-8 | 21-11 | 22-2 |
| 475.00 | 22-2 | 22-6 | 22-9 | 23-1 | 23-4 | 23-7 | 23-11 | 24-2 | 24-5 | 24-8 |
| 500.00 | 24-7 | 24-11 | 25-3 | 25-7 | 25-10 | 26-2 | 26-6 | 26-9 | 27-1 | 27-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 |
| 225.00 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 |
| 250.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 |
| 275.00 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 |
| 300.00 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 |
| 325.00 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 |
| 350.00 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 |
| 375.00 | 13-11 | 14-1 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 |
| 400.00 | 15-10 | 16-1 | 16-3 | 16-6 | 16-8 | 16-10 | 17-1 | 17-3 | 17-5 | 17-7 |
| 425.00 | 17-11 | 18-2 | 18-4 | 18-7 | 18-10 | 19-0 | 19-3 | 19-6 | 19-8 | 19-11 |
| 450.00 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-4 | 21-7 | 21-10 | 22-1 | 22-4 |
| 475.00 | 22-5 | 22-8 | 22-11 | 23-3 | 23-6 | 23-10 | 24-1 | 24-4 | 24-7 | 24-11 |
| 500.00 | 24-10 | 25-2 | 25-5 | 25-9 | 26-1 | 26-5 | 26-8 | 27-0 | 27-3 | 27-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 |
| 275.00 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 |
| 300.00 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 |
| 325.00 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 350.00 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 |
| 375.00 | 13-11 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 | 14-9 | 14-11 |
| 400.00 | 15-10 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-7 | 16-8 | 16-10 | 16-11 |
| 425.00 | 17-10 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-9 | 18-10 | 19-0 | 19-2 |
| 450.00 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 |
| 475.00 | 22-4 | 22-6 | 22-8 | 22-10 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 | 23-11 |
| 500.00 | 24-9 | 24-11 | 25-2 | 25-4 | 25-7 | 25-9 | 25-11 | 26-2 | 26-4 | 26-6 |
| 525.00 | 27-3 | 27-6 | 27-9 | 27-11 | 28-2 | 28-5 | 28-7 | 28-10 | 29-1 | 29-3 |
| 550.00 | 29-11 | 30-2 | 30-5 | 30-8 | 30-11 | 31-2 | 31-5 | 31-8 | 31-11 | 32-2 |
| 575.00 | 32-9 | 33-0 | 33-3 | 33-7 | 33-10 | 34-1 | 34-4 | 34-7 | 34-10 | 35-2 |
| 600.00 | 35-8 | 36-0 | 36-3 | 36-7 | 36-10 | 37-2 | 37-5 | 37-8 | 38-0 | 38-3 |
| 625.00 | 38-9 | 39-1 | 39-4 | 39-8 | 40-0 | 40-4 | 40-7 | 40-11 | 41-3 | 41-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 |
| 275.00 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-1 |
| 300.00 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 | 9-7 |
| 325.00 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 |
| 350.00 | 12-2 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-1 |
| 375.00 | 14-0 | 14-1 | 14-2 | 14-4 | 14-5 | 14-6 | 14-8 | 14-9 | 14-10 | 15-0 |
| 400.00 | 15-11 | 16-0 | 16-2 | 16-3 | 16-5 | 16-7 | 16-8 | 16-10 | 16-11 | 17-1 |
| 425.00 | 17-11 | 18-1 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 19-0 | 19-1 | 19-3 |
| 450.00 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 |
| 475.00 | 22-5 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-9 | 23-11 | 24-1 |
| 500.00 | 24-10 | 25-1 | 25-3 | 25-6 | 25-8 | 25-11 | 26-1 | 26-3 | 26-6 | 26-8 |
| 525.00 | 27-5 | 27-8 | 27-11 | 28-1 | 28-4 | 28-7 | 28-9 | 29-0 | 29-2 | 29-5 |
| 550.00 | 30-1 | 30-4 | 30-7 | 30-10 | 31-1 | 31-4 | 31-7 | 31-10 | 32-1 | 32-4 |
| 575.00 | 32-11 | 33-2 | 33-6 | 33-9 | 34-0 | 34-3 | 34-6 | 34-10 | 35-1 | 35-4 |
| 600.00 | 35-10 | 36-2 | 36-6 | 36-9 | 37-1 | 37-4 | 37-8 | 37-11 | 38-2 | 38-6 |
| 625.00 | 38-11 | 39-3 | 39-7 | 39-11 | 40-3 | 40-6 | 40-10 | 41-2 | 41-6 | 41-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 0.82 | 3000 | 0.82 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 0.44 | 2235 | 0.42 | 2320 |
| 30 | 0 | 0 | 0 | 0.785 | 0.86 | 1137 | 0.8 | 1234 |
| 40 | 0 | 0 | 0 | 0.785 | 1.02 | 959 | 0.95 | 1033 |
| 50 | 0 | 0 | 0 | 0.785 | 1.18 | 834 | 1.1 | 891 |
| 60 | 0 | 0 | 0 | 0.785 | 1.32 | 744 | 1.25 | 787 |
| 70 | 0 | 0 | 0 | 0.785 | 1.45 | 676 | 1.38 | 710 |
| 80 | 0 | 0 | 0 | 0.785 | 1.58 | 622 | 1.51 | 650 |
| 90 | 0 | 0 | 0 | 0.785 | 1.7 | 580 | 1.63 | 602 |
| 100 | 0 | 0 | 0 | 0.785 | 1.76 | 558 | 1.75 | 563 |
| 110 | 0 | 0 | 0 | 0.785 | 1.83 | 538 | 1.82 | 538 |
| 120 | 0 | 0 | 0 | 0.785 | 1.89 | 520 | 1.89 | 520 |
| 130 | 0 | 0 | 0 | 0.785 | 1.95 | 504 | 1.95 | 504 |
| 167 | 0 | 0 | 0 | 0.785 | 2.17 | 453 | 2.17 | 453 |
| 212 | 0 | 0 | 0 | 0.785 | 2.41 | 407 | 2.41 | 408 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 3.33 | 2961 | 3.29 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 2.7 | 1454 | 2.56 | 1533 |
| 30 | 0 | 0 | 0 | 0.785 | 3.39 | 1158 | 3.25 | 1209 |
| 40 | 0 | 0 | 0 | 0.785 | 3.61 | 1090 | 3.46 | 1135 |
| 50 | 0 | 0 | 0 | 0.785 | 3.81 | 1032 | 3.67 | 1071 |
| 60 | 0 | 0 | 0 | 0.785 | 4.01 | 981 | 3.87 | 1017 |
| 70 | 0 | 0 | 0 | 0.785 | 4.2 | 937 | 4.06 | 969 |
| 80 | 0 | 0 | 0 | 0.785 | 4.38 | 898 | 4.24 | 927 |
| 90 | 0 | 0 | 0 | 0.785 | 4.55 | 864 | 4.42 | 890 |
| 100 | 0 | 0 | 0 | 0.785 | 4.72 | 833 | 4.59 | 857 |
| 110 | 0 | 0 | 0 | 0.785 | 4.85 | 811 | 4.76 | 827 |
| 120 | 0 | 0 | 0 | 0.785 | 4.95 | 795 | 4.92 | 799 |
| 130 | 0 | 0 | 0 | 0.785 | 5.05 | 779 | 5.05 | 779 |
| 167 | 0 | 0 | 0 | 0.785 | 5.4 | 729 | 5.4 | 729 |
| 212 | 0 | 0 | 0 | 0.785 | 5.8 | 679 | 5.8 | 679 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 7.49 | 2967 | 7.4 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 6.82 | 1297 | 6.63 | 1334 |
| 30 | 0 | 0 | 0 | 0.785 | 7.55 | 1172 | 7.36 | 1202 |
| 40 | 0 | 0 | 0 | 0.785 | 7.79 | 1137 | 7.6 | 1166 |
| 50 | 0 | 0 | 0 | 0.785 | 8.01 | 1106 | 7.82 | 1132 |
| 60 | 0 | 0 | 0 | 0.785 | 8.23 | 1076 | 8.04 | 1101 |
| 70 | 0 | 0 | 0 | 0.785 | 8.45 | 1049 | 8.26 | 1073 |
| 80 | 0 | 0 | 0 | 0.785 | 8.66 | 1024 | 8.47 | 1046 |
| 90 | 0 | 0 | 0 | 0.785 | 8.86 | 1000 | 8.68 | 1021 |
| 100 | 0 | 0 | 0 | 0.785 | 9.06 | 978 | 8.88 | 998 |
| 110 | 0 | 0 | 0 | 0.785 | 9.26 | 957 | 9.08 | 976 |
| 120 | 0 | 0 | 0 | 0.785 | 9.4 | 943 | 9.27 | 956 |
| 130 | 0 | 0 | 0 | 0.785 | 9.52 | 932 | 9.46 | 937 |
| 167 | 0 | 0 | 0 | 0.785 | 9.95 | 891 | 9.95 | 891 |
| 212 | 0 | 0 | 0 | 0.785 | 10.45 | 849 | 10.45 | 849 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 13.29 | 2977 | 13.19 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 12.62 | 1249 | 12.41 | 1270 |
| 30 | 0 | 0 | 0 | 0.785 | 13.36 | 1180 | 13.15 | 1199 |
| 40 | 0 | 0 | 0 | 0.785 | 13.6 | 1160 | 13.39 | 1178 |
| 50 | 0 | 0 | 0 | 0.785 | 13.83 | 1140 | 13.62 | 1158 |
| 60 | 0 | 0 | 0 | 0.785 | 14.07 | 1122 | 13.85 | 1139 |
| 70 | 0 | 0 | 0 | 0.785 | 14.29 | 1104 | 14.08 | 1121 |
| 80 | 0 | 0 | 0 | 0.785 | 14.52 | 1087 | 14.31 | 1103 |
| 90 | 0 | 0 | 0 | 0.785 | 14.74 | 1071 | 14.53 | 1086 |
| 100 | 0 | 0 | 0 | 0.785 | 14.96 | 1055 | 14.75 | 1070 |
| 110 | 0 | 0 | 0 | 0.785 | 15.18 | 1040 | 14.96 | 1055 |
| 120 | 0 | 0 | 0 | 0.785 | 15.37 | 1027 | 15.18 | 1040 |
| 130 | 0 | 0 | 0 | 0.785 | 15.5 | 1019 | 15.39 | 1026 |
| 167 | 0 | 0 | 0 | 0.785 | 15.99 | 988 | 15.99 | 988 |
| 212 | 0 | 0 | 0 | 0.785 | 16.56 | 955 | 16.56 | 955 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.969 | 20.77 | 2983 | 20.65 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 20.09 | 1229 | 19.87 | 1242 |
| 30 | 0 | 0 | 0 | 0.785 | 20.84 | 1185 | 20.61 | 1198 |
| 40 | 0 | 0 | 0 | 0.785 | 21.08 | 1172 | 20.86 | 1184 |
| 50 | 0 | 0 | 0 | 0.785 | 21.32 | 1159 | 21.1 | 1171 |
| 60 | 0 | 0 | 0 | 0.785 | 21.56 | 1146 | 21.33 | 1158 |
| 70 | 0 | 0 | 0 | 0.785 | 21.8 | 1134 | 21.57 | 1146 |
| 80 | 0 | 0 | 0 | 0.785 | 22.03 | 1122 | 21.8 | 1134 |
| 90 | 0 | 0 | 0 | 0.785 | 22.26 | 1111 | 22.03 | 1122 |
| 100 | 0 | 0 | 0 | 0.785 | 22.49 | 1099 | 22.26 | 1111 |
| 110 | 0 | 0 | 0 | 0.785 | 22.72 | 1089 | 22.49 | 1100 |
| 120 | 0 | 0 | 0 | 0.785 | 22.94 | 1078 | 22.71 | 1089 |
| 130 | 0 | 0 | 0 | 0.785 | 23.09 | 1071 | 22.93 | 1079 |
| 167 | 0 | 0 | 0 | 0.785 | 23.62 | 1048 | 23.62 | 1048 |
| 212 | 0 | 0 | 0 | 0.785 | 24.23 | 1022 | 24.23 | 1022 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-0 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-10 |
| 150.00 | 1-5 | 1-9 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-1 |
| 175.00 | 2-0 | 2-5 | 2-11 | 3-5 | 3-10 | 4-3 | 4-8 | 5-0 | 5-4 | 5-7 |
| 200.00 | 2-7 | 3-2 | 3-10 | 4-5 | 5-0 | 5-6 | 6-1 | 6-6 | 7-0 | 7-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-9 | 2-10 |
| 150.00 | 1-7 | 1-11 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-0 | 4-1 |
| 175.00 | 2-2 | 2-8 | 3-2 | 3-7 | 4-1 | 4-5 | 4-10 | 5-2 | 5-5 | 5-7 |
| 200.00 | 2-10 | 3-5 | 4-1 | 4-9 | 5-3 | 5-10 | 6-4 | 6-9 | 7-1 | 7-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 |
| 150.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 |
| 175.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 |
| 200.00 | 3-0 | 3-3 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 |
| 225.00 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-0 |
| 250.00 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-2 | 7-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 |
| 150.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 |
| 200.00 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-10 |
| 225.00 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-2 |
| 250.00 | 4-11 | 5-4 | 5-8 | 5-11 | 6-3 | 6-7 | 6-10 | 7-1 | 7-5 | 7-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 |
| 175.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 |
| 200.00 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 225.00 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 |
| 250.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 |
| 275.00 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 |
| 300.00 | 7-2 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 |
| 325.00 | 8-4 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 |
| 350.00 | 9-8 | 10-0 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 | 11-10 | 12-1 | 12-4 |
| 375.00 | 11-2 | 11-6 | 11-10 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-11 | 14-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 175.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 200.00 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 225.00 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 |
| 250.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 |
| 275.00 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 |
| 300.00 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 |
| 325.00 | 8-7 | 8-10 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-10 |
| 350.00 | 10-0 | 10-3 | 10-7 | 10-11 | 11-2 | 11-6 | 11-9 | 12-1 | 12-4 | 12-7 |
| 375.00 | 11-5 | 11-10 | 12-2 | 12-6 | 12-10 | 13-2 | 13-6 | 13-10 | 14-2 | 14-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 |
| 225.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 250.00 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 275.00 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 |
| 300.00 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 |
| 325.00 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 |
| 350.00 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 |
| 375.00 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 | 13-2 |
| 400.00 | 12-11 | 13-2 | 13-5 | 13-7 | 13-10 | 14-1 | 14-4 | 14-6 | 14-9 | 15-0 |
| 425.00 | 14-7 | 14-10 | 15-1 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 |
| 450.00 | 16-4 | 16-8 | 16-11 | 17-3 | 17-6 | 17-10 | 18-1 | 18-5 | 18-8 | 18-11 |
| 475.00 | 18-2 | 18-7 | 18-11 | 19-3 | 19-7 | 19-10 | 20-2 | 20-6 | 20-10 | 21-1 |
| 500.00 | 20-2 | 20-7 | 20-11 | 21-4 | 21-8 | 22-0 | 22-4 | 22-9 | 23-1 | 23-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 |
| 225.00 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 250.00 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 275.00 | 6-2 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 |
| 300.00 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 |
| 325.00 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 |
| 350.00 | 10-0 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 |
| 375.00 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 | 13-2 | 13-4 |
| 400.00 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-6 | 14-9 | 15-0 | 15-2 |
| 425.00 | 14-10 | 15-1 | 15-4 | 15-7 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 |
| 450.00 | 16-7 | 16-11 | 17-3 | 17-6 | 17-10 | 18-1 | 18-5 | 18-8 | 18-11 | 19-3 |
| 475.00 | 18-6 | 18-10 | 19-2 | 19-6 | 19-10 | 20-2 | 20-6 | 20-10 | 21-1 | 21-5 |
| 500.00 | 20-6 | 20-11 | 21-3 | 21-8 | 22-0 | 22-4 | 22-9 | 23-1 | 23-5 | 23-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 |
| 275.00 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 |
| 300.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 |
| 325.00 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 |
| 350.00 | 10-0 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-9 | 10-11 | 11-0 |
| 375.00 | 11-5 | 11-7 | 11-9 | 11-10 | 12-0 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 |
| 400.00 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 13-11 | 14-1 | 14-3 | 14-5 |
| 425.00 | 14-8 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 |
| 450.00 | 16-6 | 16-8 | 16-11 | 17-1 | 17-3 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 |
| 475.00 | 18-5 | 18-7 | 18-10 | 19-0 | 19-3 | 19-6 | 19-8 | 19-11 | 20-1 | 20-3 |
| 500.00 | 20-4 | 20-7 | 20-10 | 21-1 | 21-4 | 21-7 | 21-10 | 22-0 | 22-3 | 22-6 |
| 525.00 | 22-6 | 22-9 | 23-0 | 23-3 | 23-6 | 23-9 | 24-1 | 24-4 | 24-7 | 24-10 |
| 550.00 | 24-8 | 24-11 | 25-3 | 25-6 | 25-10 | 26-1 | 26-5 | 26-8 | 26-11 | 27-3 |
| 575.00 | 26-11 | 27-3 | 27-7 | 27-11 | 28-3 | 28-7 | 28-10 | 29-2 | 29-6 | 29-9 |
| 600.00 | 29-4 | 29-9 | 30-1 | 30-5 | 30-9 | 31-1 | 31-5 | 31-9 | 32-1 | 32-5 |
| 625.00 | 31-10 | 32-3 | 32-8 | 33-0 | 33-5 | 33-9 | 34-1 | 34-6 | 34-10 | 35-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 |
| 275.00 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 |
| 300.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 |
| 325.00 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 |
| 350.00 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-9 | 10-11 | 11-0 | 11-1 |
| 375.00 | 11-7 | 11-9 | 11-10 | 12-0 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 | 12-9 |
| 400.00 | 13-2 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-6 |
| 425.00 | 14-10 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 |
| 450.00 | 16-8 | 16-10 | 17-1 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-3 | 18-5 |
| 475.00 | 18-7 | 18-10 | 19-0 | 19-3 | 19-5 | 19-8 | 19-11 | 20-1 | 20-4 | 20-6 |
| 500.00 | 20-7 | 20-10 | 21-1 | 21-4 | 21-7 | 21-10 | 22-0 | 22-3 | 22-6 | 22-9 |
| 525.00 | 22-9 | 23-0 | 23-3 | 23-6 | 23-9 | 24-0 | 24-4 | 24-7 | 24-10 | 25-1 |
| 550.00 | 24-11 | 25-3 | 25-6 | 25-10 | 26-1 | 26-5 | 26-8 | 26-11 | 27-3 | 27-6 |
| 575.00 | 27-3 | 27-7 | 27-11 | 28-3 | 28-6 | 28-10 | 29-2 | 29-6 | 29-9 | 30-1 |
| 600.00 | 29-8 | 30-0 | 30-5 | 30-9 | 31-1 | 31-5 | 31-9 | 32-1 | 32-5 | 32-9 |
| 625.00 | 32-3 | 32-7 | 33-0 | 33-4 | 33-9 | 34-1 | 34-6 | 34-10 | 35-2 | 35-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 5.57 | 1000 | 5.57 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 5.5 | 180 | 5.5 | 181 |
| 30 | 0 | 0 | 0 | 0.785 | 5.63 | 176 | 5.63 | 177 |
| 40 | 0 | 0 | 0 | 0.785 | 5.67 | 175 | 5.67 | 175 |
| 50 | 0 | 0 | 0 | 0.785 | 5.71 | 174 | 5.71 | 174 |
| 60 | 0 | 0 | 0 | 0.785 | 5.75 | 173 | 5.74 | 173 |
| 70 | 0 | 0 | 0 | 0.785 | 5.77 | 172 | 5.77 | 172 |
| 80 | 0 | 0 | 0 | 0.785 | 5.8 | 172 | 5.8 | 172 |
| 90 | 0 | 0 | 0 | 0.785 | 5.82 | 171 | 5.82 | 171 |
| 100 | 0 | 0 | 0 | 0.785 | 5.84 | 170 | 5.84 | 170 |
| 110 | 0 | 0 | 0 | 0.785 | 5.87 | 170 | 5.87 | 170 |
| 120 | 0 | 0 | 0 | 0.785 | 5.89 | 169 | 5.89 | 169 |
| 130 | 0 | 0 | 0 | 0.785 | 5.91 | 168 | 5.91 | 168 |
| 167 | 0 | 0 | 0 | 0.785 | 6 | 166 | 6 | 166 |
| 212 | 0 | 0 | 0 | 0.785 | 6.1 | 163 | 6.1 | 163 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 23.2 | 1000 | 23.2 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 23.14 | 179 | 23.13 | 179 |
| 30 | 0 | 0 | 0 | 0.785 | 23.27 | 178 | 23.26 | 178 |
| 40 | 0 | 0 | 0 | 0.785 | 23.31 | 178 | 23.3 | 178 |
| 50 | 0 | 0 | 0 | 0.785 | 23.34 | 177 | 23.34 | 177 |
| 60 | 0 | 0 | 0 | 0.785 | 23.38 | 177 | 23.38 | 177 |
| 70 | 0 | 0 | 0 | 0.785 | 23.41 | 177 | 23.41 | 177 |
| 80 | 0 | 0 | 0 | 0.785 | 23.43 | 177 | 23.43 | 177 |
| 90 | 0 | 0 | 0 | 0.785 | 23.46 | 177 | 23.46 | 177 |
| 100 | 0 | 0 | 0 | 0.785 | 23.48 | 176 | 23.48 | 176 |
| 110 | 0 | 0 | 0 | 0.785 | 23.51 | 176 | 23.51 | 176 |
| 120 | 0 | 0 | 0 | 0.785 | 23.53 | 176 | 23.53 | 176 |
| 130 | 0 | 0 | 0 | 0.785 | 23.55 | 176 | 23.55 | 176 |
| 167 | 0 | 0 | 0 | 0.785 | 23.64 | 175 | 23.64 | 175 |
| 212 | 0 | 0 | 0 | 0.785 | 23.75 | 175 | 23.75 | 175 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 56.67 | 1000 | 56.67 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 56.6 | 178 | 56.6 | 178 |
| 30 | 0 | 0 | 0 | 0.785 | 56.73 | 178 | 56.73 | 178 |
| 40 | 0 | 0 | 0 | 0.785 | 56.77 | 178 | 56.77 | 178 |
| 50 | 0 | 0 | 0 | 0.785 | 56.81 | 178 | 56.81 | 178 |
| 60 | 0 | 0 | 0 | 0.785 | 56.85 | 178 | 56.84 | 178 |
| 70 | 0 | 0 | 0 | 0.785 | 56.88 | 178 | 56.88 | 178 |
| 80 | 0 | 0 | 0 | 0.785 | 56.9 | 178 | 56.9 | 178 |
| 90 | 0 | 0 | 0 | 0.785 | 56.92 | 178 | 56.92 | 178 |
| 100 | 0 | 0 | 0 | 0.785 | 56.95 | 178 | 56.95 | 178 |
| 110 | 0 | 0 | 0 | 0.785 | 56.97 | 178 | 56.97 | 178 |
| 120 | 0 | 0 | 0 | 0.785 | 57 | 178 | 57 | 178 |
| 130 | 0 | 0 | 0 | 0.785 | 57.02 | 177 | 57.02 | 177 |
| 167 | 0 | 0 | 0 | 0.785 | 57.11 | 177 | 57.11 | 177 |
| 212 | 0 | 0 | 0 | 0.785 | 57.22 | 177 | 57.22 | 177 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 120.85 | 1000 | 120.85 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 120.79 | 178 | 120.78 | 178 |
| 30 | 0 | 0 | 0 | 0.785 | 120.91 | 178 | 120.9 | 178 |
| 40 | 0 | 0 | 0 | 0.785 | 120.95 | 178 | 120.94 | 178 |
| 50 | 0 | 0 | 0 | 0.785 | 120.98 | 178 | 120.98 | 178 |
| 60 | 0 | 0 | 0 | 0.785 | 121.02 | 178 | 121.01 | 178 |
| 70 | 0 | 0 | 0 | 0.785 | 121.05 | 178 | 121.05 | 178 |
| 80 | 0 | 0 | 0 | 0.785 | 121.07 | 178 | 121.07 | 178 |
| 90 | 0 | 0 | 0 | 0.785 | 121.09 | 178 | 121.09 | 178 |
| 100 | 0 | 0 | 0 | 0.785 | 121.12 | 178 | 121.12 | 178 |
| 110 | 0 | 0 | 0 | 0.785 | 121.14 | 178 | 121.14 | 178 |
| 120 | 0 | 0 | 0 | 0.785 | 121.16 | 178 | 121.16 | 178 |
| 130 | 0 | 0 | 0 | 0.785 | 121.19 | 178 | 121.19 | 178 |
| 167 | 0 | 0 | 0 | 0.785 | 121.27 | 178 | 121.27 | 178 |
| 212 | 0 | 0 | 0 | 0.785 | 121.37 | 178 | 121.37 | 178 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3- 2 | 3- 2 | 3- 2 | 3- 2 | 3- 3 | 3- 3 | 3- 3 | 3- 3 | 3- 3 | 3- 4 |
| 100.00 | 5- 7 | 5- 8 | 5- 8 | 5- 8 | 5- 9 | 5- 9 | 5-10 | 5-10 | 5-10 | 5-10 |
| 125.00 | 8- 9 | 8-10 | 8-11 | 8-11 | 9- 0 | 9- 1 | 9- 1 | 9- 1 | 9- 2 | 9- 2 |
| 150.00 | 12- 8 | 12- 9 | 12-10 | 12-11 | 13- 0 | 13- 1 | 13- 1 | 13- 2 | 13- 3 | 13- 3 |
| 175.00 | 17- 3 | 17- 5 | 17- 6 | 17- 8 | 17- 9 | 17-10 | 17-11 | 18- 0 | 18- 1 | 18- 2 |
| 200.00 | 22- 7 | 22- 9 | 23- 0 | 23- 1 | 23- 3 | 23- 5 | 23- 6 | 23- 7 | 23- 8 | 23-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3- 2 | 3- 2 | 3- 2 | 3- 2 | 3- 3 | 3- 3 | 3- 3 | 3- 3 | 3- 3 | 3- 4 |
| 100.00 | 5- 7 | 5- 8 | 5- 8 | 5- 9 | 5- 9 | 5- 9 | 5-10 | 5-10 | 5-10 | 5-10 |
| 125.00 | 8- 9 | 8-10 | 8-11 | 8-11 | 9- 0 | 9- 1 | 9- 1 | 9- 1 | 9- 2 | 9- 2 |
| 150.00 | 12- 8 | 12- 9 | 12-10 | 12-11 | 13- 0 | 13- 1 | 13- 1 | 13- 2 | 13- 3 | 13- 3 |
| 175.00 | 17- 3 | 17- 5 | 17- 6 | 17- 8 | 17- 9 | 17-10 | 17-11 | 18- 0 | 18- 1 | 18- 2 |
| 200.00 | 22- 8 | 22-10 | 23- 0 | 23- 2 | 23- 3 | 23- 5 | 23- 6 | 23- 7 | 23- 8 | 23-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



OH812.85

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5-10 | 5-10 |
| 125.00 | 9- 0 | 9- 0 | 9- 0 | 9- 0 | 9- 0 | 9- 1 | 9- 1 | 9- 1 | 9- 1 | 9- 1 |
| 150.00 | 13- 0 | 13- 0 | 13- 0 | 13- 0 | 13- 1 | 13- 1 | 13- 1 | 13- 1 | 13- 1 | 13- 1 |
| 175.00 | 17- 8 | 17- 9 | 17- 9 | 17-10 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 |
| 200.00 | 23- 3 | 23- 3 | 23- 4 | 23- 4 | 23- 5 | 23- 5 | 23- 5 | 23- 5 | 23- 6 | 23- 6 |
| 225.00 | 29- 6 | 29- 7 | 29- 8 | 29- 8 | 29- 9 | 29- 9 | 29-10 | 29-10 | 29-10 | 29-11 |
| 250.00 | 36- 8 | 36- 8 | 36- 9 | 36-10 | 36-11 | 36-11 | 37- 0 | 37- 0 | 37- 1 | 37- 1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5- 9 | 5-10 | 5-10 |
| 125.00 | 9- 0 | 9- 0 | 9- 0 | 9- 0 | 9- 0 | 9- 1 | 9- 1 | 9- 1 | 9- 1 | 9- 1 |
| 150.00 | 13- 0 | 13- 0 | 13- 0 | 13- 0 | 13- 1 | 13- 1 | 13- 1 | 13- 1 | 13- 1 | 13- 1 |
| 175.00 | 17- 8 | 17- 9 | 17- 9 | 17-10 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 |
| 200.00 | 23- 3 | 23- 3 | 23- 4 | 23- 4 | 23- 5 | 23- 5 | 23- 5 | 23- 5 | 23- 6 | 23- 6 |
| 225.00 | 29- 6 | 29- 7 | 29- 8 | 29- 8 | 29- 9 | 29- 9 | 29-10 | 29-10 | 29-10 | 29-11 |
| 250.00 | 36- 8 | 36- 9 | 36- 9 | 36-10 | 36-11 | 36-11 | 37- 0 | 37- 0 | 37- 1 | 37- 1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 |
| 175.00 | 18- 9 | 18- 9 | 18- 9 | 18- 9 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 |
| 200.00 | 24- 7 | 24- 7 | 24- 8 | 24- 8 | 24- 8 | 24- 8 | 24- 8 | 24- 8 | 24- 8 | 24- 9 |
| 225.00 | 31- 3 | 31- 4 | 31- 4 | 31- 4 | 31- 4 | 31- 5 | 31- 5 | 31- 5 | 31- 5 | 31- 5 |
| 250.00 | 38-10 | 38-10 | 38-11 | 38-11 | 38-11 | 39- 0 | 39- 0 | 39- 0 | 39- 0 | 39- 0 |
| 275.00 | 47- 4 | 47- 4 | 47- 4 | 47- 5 | 47- 5 | 47- 6 | 47- 6 | 47- 6 | 47- 6 | 47- 6 |
| 300.00 | 56- 8 | 56- 9 | 56- 9 | 56-10 | 56-10 | 56-11 | 56-11 | 56-11 | 56-11 | 57- 0 |
| 325.00 | 67- 0 | 67- 1 | 67- 2 | 67- 2 | 67- 3 | 67- 3 | 67- 3 | 67- 4 | 67- 4 | 67- 4 |
| 350.00 | 78- 4 | 78- 5 | 78- 6 | 78- 6 | 78- 7 | 78- 8 | 78- 8 | 78- 8 | 78- 9 | 78- 9 |
| 375.00 | 90- 9 | 90-10 | 90-11 | 90-11 | 91- 0 | 91- 1 | 91- 1 | 91- 2 | 91- 2 | 91- 3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 | 13- 9 |
| 175.00 | 18- 9 | 18- 9 | 18- 9 | 18- 9 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 |
| 200.00 | 24- 7 | 24- 7 | 24- 8 | 24- 8 | 24- 8 | 24- 8 | 24- 8 | 24- 8 | 24- 8 | 24- 9 |
| 225.00 | 31- 3 | 31- 4 | 31- 4 | 31- 4 | 31- 4 | 31- 5 | 31- 5 | 31- 5 | 31- 5 | 31- 5 |
| 250.00 | 38-10 | 38-11 | 38-11 | 38-11 | 38-11 | 39- 0 | 39- 0 | 39- 0 | 39- 0 | 39- 0 |
| 275.00 | 47- 4 | 47- 4 | 47- 5 | 47- 5 | 47- 5 | 47- 6 | 47- 6 | 47- 6 | 47- 6 | 47- 6 |
| 300.00 | 56- 8 | 56- 9 | 56- 9 | 56-10 | 56-10 | 56-11 | 56-11 | 56-11 | 56-11 | 57- 0 |
| 325.00 | 67- 0 | 67- 1 | 67- 2 | 67- 2 | 67- 3 | 67- 3 | 67- 3 | 67- 4 | 67- 4 | 67- 4 |
| 350.00 | 78- 4 | 78- 5 | 78- 6 | 78- 7 | 78- 7 | 78- 8 | 78- 8 | 78- 8 | 78- 9 | 78- 9 |
| 375.00 | 90- 9 | 90-10 | 90-11 | 90-11 | 91- 0 | 91- 1 | 91- 1 | 91- 2 | 91- 2 | 91- 3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 |
| 225.00 | 35- 9 | 35- 9 | 35- 9 | 35- 9 | 35- 9 | 35-10 | 35-10 | 35-10 | 35-10 | 35-10 |
| 250.00 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 7 | 44- 7 |
| 275.00 | 54- 3 | 54- 3 | 54- 3 | 54- 3 | 54- 4 | 54- 4 | 54- 4 | 54- 4 | 54- 4 | 54- 4 |
| 300.00 | 65- 1 | 65- 2 | 65- 2 | 65- 2 | 65- 2 | 65- 3 | 65- 3 | 65- 3 | 65- 3 | 65- 3 |
| 325.00 | 77- 2 | 77- 2 | 77- 3 | 77- 3 | 77- 3 | 77- 3 | 77- 4 | 77- 4 | 77- 4 | 77- 4 |
| 350.00 | 90- 5 | 90- 6 | 90- 6 | 90- 6 | 90- 6 | 90- 7 | 90- 7 | 90- 7 | 90- 7 | 90- 8 |
| 375.00 | 105- 0 | 105- 0 | 105- 1 | 105- 1 | 105- 1 | 105- 2 | 105- 2 | 105- 2 | 105- 2 | 105- 3 |
| 400.00 | 120-10 | 120-11 | 120-11 | 121- 0 | 121- 0 | 121- 1 | 121- 1 | 121- 1 | 121- 1 | 121- 2 |
| 425.00 | 138- 2 | 138- 3 | 138- 3 | 138- 4 | 138- 4 | 138- 5 | 138- 5 | 138- 5 | 138- 6 | 138- 6 |
| 450.00 | 157- 0 | 157- 1 | 157- 1 | 157- 2 | 157- 2 | 157- 3 | 157- 3 | 157- 4 | 157- 4 | 157- 4 |
| 475.00 | 177- 5 | 177- 5 | 177- 6 | 177- 7 | 177- 8 | 177- 8 | 177- 9 | 177- 9 | 177- 9 | 177-10 |
| 500.00 | 199- 6 | 199- 7 | 199- 8 | 199- 8 | 199- 9 | 199-10 | 199-10 | 199-11 | 199-11 | 200- 0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 | 28- 1 |
| 225.00 | 35- 9 | 35- 9 | 35- 9 | 35- 9 | 35- 9 | 35-10 | 35-10 | 35-10 | 35-10 | 35-10 |
| 250.00 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 6 | 44- 7 | 44- 7 |
| 275.00 | 54- 3 | 54- 3 | 54- 3 | 54- 3 | 54- 4 | 54- 4 | 54- 4 | 54- 4 | 54- 4 | 54- 4 |
| 300.00 | 65- 1 | 65- 2 | 65- 2 | 65- 2 | 65- 2 | 65- 3 | 65- 3 | 65- 3 | 65- 3 | 65- 3 |
| 325.00 | 77- 2 | 77- 2 | 77- 3 | 77- 3 | 77- 3 | 77- 3 | 77- 4 | 77- 4 | 77- 4 | 77- 4 |
| 350.00 | 90- 5 | 90- 6 | 90- 6 | 90- 6 | 90- 7 | 90- 7 | 90- 7 | 90- 7 | 90- 7 | 90- 8 |
| 375.00 | 105- 0 | 105- 0 | 105- 1 | 105- 1 | 105- 1 | 105- 2 | 105- 2 | 105- 2 | 105- 2 | 105- 3 |
| 400.00 | 120-10 | 120-11 | 120-11 | 121- 0 | 121- 0 | 121- 1 | 121- 1 | 121- 1 | 121- 1 | 121- 2 |
| 425.00 | 138- 2 | 138- 3 | 138- 3 | 138- 4 | 138- 4 | 138- 5 | 138- 5 | 138- 5 | 138- 6 | 138- 6 |
| 450.00 | 157- 0 | 157- 1 | 157- 1 | 157- 2 | 157- 2 | 157- 3 | 157- 3 | 157- 4 | 157- 4 | 157- 4 |
| 475.00 | 177- 5 | 177- 6 | 177- 6 | 177- 7 | 177- 8 | 177- 8 | 177- 9 | 177- 9 | 177- 9 | 177-10 |
| 500.00 | 199- 6 | 199- 7 | 199- 8 | 199- 8 | 199- 9 | 199-10 | 199-10 | 199-11 | 199-11 | 200- 0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 3.69 | 1500 | 3.69 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 3.55 | 277 | 3.54 | 279 |
| 30 | 0 | 0 | 0 | 0.785 | 3.75 | 263 | 3.73 | 264 |
| 40 | 0 | 0 | 0 | 0.785 | 3.81 | 259 | 3.79 | 260 |
| 50 | 0 | 0 | 0 | 0.785 | 3.86 | 256 | 3.85 | 257 |
| 60 | 0 | 0 | 0 | 0.785 | 3.91 | 252 | 3.9 | 253 |
| 70 | 0 | 0 | 0 | 0.785 | 3.96 | 249 | 3.95 | 250 |
| 80 | 0 | 0 | 0 | 0.785 | 3.99 | 247 | 3.99 | 247 |
| 90 | 0 | 0 | 0 | 0.785 | 4.03 | 245 | 4.03 | 245 |
| 100 | 0 | 0 | 0 | 0.785 | 4.06 | 243 | 4.06 | 243 |
| 110 | 0 | 0 | 0 | 0.785 | 4.09 | 241 | 4.09 | 241 |
| 120 | 0 | 0 | 0 | 0.785 | 4.13 | 239 | 4.13 | 239 |
| 130 | 0 | 0 | 0 | 0.785 | 4.16 | 238 | 4.16 | 238 |
| 167 | 0 | 0 | 0 | 0.785 | 4.28 | 231 | 4.28 | 231 |
| 212 | 0 | 0 | 0 | 0.785 | 4.42 | 224 | 4.42 | 224 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 15.01 | 1500 | 15.01 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 14.87 | 270 | 14.85 | 270 |
| 30 | 0 | 0 | 0 | 0.785 | 15.07 | 266 | 15.05 | 267 |
| 40 | 0 | 0 | 0 | 0.785 | 15.13 | 265 | 15.11 | 266 |
| 50 | 0 | 0 | 0 | 0.785 | 15.18 | 265 | 15.17 | 265 |
| 60 | 0 | 0 | 0 | 0.785 | 15.24 | 264 | 15.22 | 264 |
| 70 | 0 | 0 | 0 | 0.785 | 15.29 | 263 | 15.28 | 263 |
| 80 | 0 | 0 | 0 | 0.785 | 15.32 | 262 | 15.32 | 262 |
| 90 | 0 | 0 | 0 | 0.785 | 15.36 | 262 | 15.36 | 262 |
| 100 | 0 | 0 | 0 | 0.785 | 15.4 | 261 | 15.4 | 261 |
| 110 | 0 | 0 | 0 | 0.785 | 15.43 | 260 | 15.43 | 260 |
| 120 | 0 | 0 | 0 | 0.785 | 15.47 | 260 | 15.47 | 260 |
| 130 | 0 | 0 | 0 | 0.785 | 15.5 | 259 | 15.5 | 259 |
| 167 | 0 | 0 | 0 | 0.785 | 15.63 | 257 | 15.63 | 257 |
| 212 | 0 | 0 | 0 | 0.785 | 15.79 | 255 | 15.79 | 255 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 34.81 | 1500 | 34.81 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 34.67 | 268 | 34.65 | 269 |
| 30 | 0 | 0 | 0 | 0.785 | 34.87 | 267 | 34.85 | 267 |
| 40 | 0 | 0 | 0 | 0.785 | 34.92 | 267 | 34.91 | 267 |
| 50 | 0 | 0 | 0 | 0.785 | 34.98 | 266 | 34.97 | 266 |
| 60 | 0 | 0 | 0 | 0.785 | 35.04 | 266 | 35.02 | 266 |
| 70 | 0 | 0 | 0 | 0.785 | 35.09 | 266 | 35.08 | 266 |
| 80 | 0 | 0 | 0 | 0.785 | 35.13 | 265 | 35.13 | 265 |
| 90 | 0 | 0 | 0 | 0.785 | 35.16 | 265 | 35.16 | 265 |
| 100 | 0 | 0 | 0 | 0.785 | 35.2 | 265 | 35.2 | 265 |
| 110 | 0 | 0 | 0 | 0.785 | 35.23 | 265 | 35.23 | 265 |
| 120 | 0 | 0 | 0 | 0.785 | 35.27 | 264 | 35.27 | 264 |
| 130 | 0 | 0 | 0 | 0.785 | 35.31 | 264 | 35.31 | 264 |
| 167 | 0 | 0 | 0 | 0.785 | 35.44 | 263 | 35.44 | 263 |
| 212 | 0 | 0 | 0 | 0.785 | 35.6 | 262 | 35.6 | 262 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 64.94 | 1500 | 64.94 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 64.81 | 268 | 64.79 | 268 |
| 30 | 0 | 0 | 0 | 0.785 | 65 | 267 | 64.98 | 267 |
| 40 | 0 | 0 | 0 | 0.785 | 65.06 | 267 | 65.05 | 267 |
| 50 | 0 | 0 | 0 | 0.785 | 65.11 | 267 | 65.1 | 267 |
| 60 | 0 | 0 | 0 | 0.785 | 65.17 | 267 | 65.16 | 267 |
| 70 | 0 | 0 | 0 | 0.785 | 65.22 | 267 | 65.21 | 267 |
| 80 | 0 | 0 | 0 | 0.785 | 65.26 | 266 | 65.26 | 266 |
| 90 | 0 | 0 | 0 | 0.785 | 65.29 | 266 | 65.29 | 266 |
| 100 | 0 | 0 | 0 | 0.785 | 65.33 | 266 | 65.33 | 266 |
| 110 | 0 | 0 | 0 | 0.785 | 65.37 | 266 | 65.37 | 266 |
| 120 | 0 | 0 | 0 | 0.785 | 65.4 | 266 | 65.4 | 266 |
| 130 | 0 | 0 | 0 | 0.785 | 65.44 | 266 | 65.44 | 266 |
| 167 | 0 | 0 | 0 | 0.785 | 65.57 | 265 | 65.57 | 265 |
| 212 | 0 | 0 | 0 | 0.785 | 65.74 | 265 | 65.74 | 265 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 109.57 | 1500 | 109.57 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 109.44 | 268 | 109.42 | 268 |
| 30 | 0 | 0 | 0 | 0.785 | 109.63 | 267 | 109.61 | 267 |
| 40 | 0 | 0 | 0 | 0.785 | 109.68 | 267 | 109.67 | 267 |
| 50 | 0 | 0 | 0 | 0.785 | 109.74 | 267 | 109.73 | 267 |
| 60 | 0 | 0 | 0 | 0.785 | 109.79 | 267 | 109.78 | 267 |
| 70 | 0 | 0 | 0 | 0.785 | 109.85 | 267 | 109.84 | 267 |
| 80 | 0 | 0 | 0 | 0.785 | 109.88 | 267 | 109.88 | 267 |
| 90 | 0 | 0 | 0 | 0.785 | 109.92 | 267 | 109.92 | 267 |
| 100 | 0 | 0 | 0 | 0.785 | 109.95 | 267 | 109.95 | 267 |
| 110 | 0 | 0 | 0 | 0.785 | 109.99 | 267 | 109.99 | 267 |
| 120 | 0 | 0 | 0 | 0.785 | 110.03 | 267 | 110.03 | 267 |
| 130 | 0 | 0 | 0 | 0.785 | 110.06 | 267 | 110.06 | 267 |
| 167 | 0 | 0 | 0 | 0.785 | 110.19 | 266 | 110.19 | 266 |
| 212 | 0 | 0 | 0 | 0.785 | 110.35 | 266 | 110.35 | 266 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 |
| 100.00 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 |
| 125.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 |
| 150.00 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 |
| 175.00 | 11-3 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 |
| 200.00 | 14-9 | 15-0 | 15-3 | 15-6 | 15-8 | 15-11 | 16-1 | 16-3 | 16-4 | 16-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 |
| 100.00 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 |
| 125.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 |
| 150.00 | 8-4 | 8-5 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 |
| 175.00 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 |
| 200.00 | 14-10 | 15-1 | 15-4 | 15-6 | 15-9 | 15-11 | 16-1 | 16-3 | 16-4 | 16-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.92

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-9 | 3-9 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 |
| 125.00 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 |
| 150.00 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 |
| 175.00 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 |
| 200.00 | 15-0 | 15-1 | 15-1 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 |
| 225.00 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-5 | 19-6 | 19-6 | 19-7 |
| 250.00 | 23-6 | 23-7 | 23-9 | 23-10 | 23-11 | 24-0 | 24-1 | 24-1 | 24-2 | 24-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-9 | 3-9 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 |
| 125.00 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 |
| 150.00 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 |
| 175.00 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 |
| 200.00 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 |
| 225.00 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-5 | 19-6 | 19-6 | 19-7 |
| 250.00 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 | 24-1 | 24-1 | 24-2 | 24-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



OH812.93

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 |
| 175.00 | 11-8 | 11-9 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-10 | 11-10 |
| 200.00 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 | 15-6 | 15-6 | 15-6 | 15-6 |
| 225.00 | 19-5 | 19-5 | 19-6 | 19-6 | 19-7 | 19-7 | 19-7 | 19-8 | 19-8 | 19-8 |
| 250.00 | 24-0 | 24-1 | 24-1 | 24-2 | 24-2 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 |
| 275.00 | 29-2 | 29-2 | 29-3 | 29-4 | 29-4 | 29-5 | 29-5 | 29-6 | 29-6 | 29-6 |
| 300.00 | 34-9 | 34-10 | 34-11 | 35-0 | 35-0 | 35-1 | 35-2 | 35-2 | 35-2 | 35-3 |
| 325.00 | 40-11 | 41-0 | 41-1 | 41-2 | 41-3 | 41-4 | 41-4 | 41-5 | 41-5 | 41-6 |
| 350.00 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 | 48-1 | 48-1 | 48-2 | 48-3 | 48-3 |
| 375.00 | 54-11 | 55-0 | 55-1 | 55-2 | 55-3 | 55-4 | 55-5 | 55-6 | 55-7 | 55-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 |
| 175.00 | 11-8 | 11-9 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-10 | 11-10 |
| 200.00 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 | 15-6 | 15-6 | 15-6 | 15-6 |
| 225.00 | 19-5 | 19-6 | 19-6 | 19-6 | 19-7 | 19-7 | 19-7 | 19-8 | 19-8 | 19-8 |
| 250.00 | 24-0 | 24-1 | 24-1 | 24-2 | 24-2 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 |
| 275.00 | 29-2 | 29-3 | 29-3 | 29-4 | 29-4 | 29-5 | 29-5 | 29-6 | 29-6 | 29-6 |
| 300.00 | 34-10 | 34-10 | 34-11 | 35-0 | 35-0 | 35-1 | 35-2 | 35-2 | 35-2 | 35-3 |
| 325.00 | 41-0 | 41-1 | 41-1 | 41-2 | 41-3 | 41-4 | 41-4 | 41-5 | 41-5 | 41-6 |
| 350.00 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 | 48-1 | 48-1 | 48-2 | 48-3 | 48-3 |
| 375.00 | 54-11 | 55-0 | 55-1 | 55-2 | 55-3 | 55-4 | 55-5 | 55-6 | 55-7 | 55-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 15-10 | 15-10 | 15-10 | 15-11 | 15-11 | 15-11 | 15-11 | 15-11 | 15-11 | 15-11 |
| 225.00 | 20-1 | 20-1 | 20-1 | 20-2 | 20-2 | 20-2 | 20-2 | 20-2 | 20-2 | 20-3 |
| 250.00 | 24-10 | 24-11 | 24-11 | 24-11 | 24-11 | 25-0 | 25-0 | 25-0 | 25-0 | 25-0 |
| 275.00 | 30-2 | 30-2 | 30-3 | 30-3 | 30-3 | 30-3 | 30-4 | 30-4 | 30-4 | 30-4 |
| 300.00 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-2 | 36-2 | 36-3 | 36-3 |
| 325.00 | 42-5 | 42-5 | 42-6 | 42-6 | 42-6 | 42-7 | 42-7 | 42-7 | 42-8 | 42-8 |
| 350.00 | 49-4 | 49-4 | 49-5 | 49-6 | 49-6 | 49-7 | 49-7 | 49-7 | 49-8 | 49-8 |
| 375.00 | 56-10 | 56-11 | 56-11 | 57-0 | 57-0 | 57-1 | 57-2 | 57-2 | 57-2 | 57-3 |
| 400.00 | 64-11 | 65-0 | 65-1 | 65-1 | 65-2 | 65-3 | 65-3 | 65-4 | 65-4 | 65-4 |
| 425.00 | 73-7 | 73-8 | 73-9 | 73-10 | 73-10 | 73-11 | 74-0 | 74-0 | 74-1 | 74-1 |
| 450.00 | 82-11 | 83-0 | 83-1 | 83-1 | 83-2 | 83-3 | 83-4 | 83-4 | 83-5 | 83-6 |
| 475.00 | 92-9 | 92-10 | 93-0 | 93-1 | 93-2 | 93-2 | 93-3 | 93-4 | 93-5 | 93-5 |
| 500.00 | 103-4 | 103-5 | 103-6 | 103-7 | 103-8 | 103-10 | 103-10 | 103-11 | 104-0 | 104-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 15-10 | 15-10 | 15-10 | 15-11 | 15-11 | 15-11 | 15-11 | 15-11 | 15-11 | 15-11 |
| 225.00 | 20-1 | 20-1 | 20-2 | 20-2 | 20-2 | 20-2 | 20-2 | 20-2 | 20-2 | 20-3 |
| 250.00 | 24-10 | 24-11 | 24-11 | 24-11 | 24-11 | 25-0 | 25-0 | 25-0 | 25-0 | 25-0 |
| 275.00 | 30-2 | 30-2 | 30-3 | 30-3 | 30-3 | 30-4 | 30-4 | 30-4 | 30-4 | 30-4 |
| 300.00 | 36-0 | 36-1 | 36-1 | 36-1 | 36-2 | 36-2 | 36-2 | 36-2 | 36-3 | 36-3 |
| 325.00 | 42-5 | 42-5 | 42-6 | 42-6 | 42-7 | 42-7 | 42-7 | 42-7 | 42-8 | 42-8 |
| 350.00 | 49-4 | 49-5 | 49-5 | 49-6 | 49-6 | 49-7 | 49-7 | 49-7 | 49-8 | 49-8 |
| 375.00 | 56-10 | 56-11 | 56-11 | 57-0 | 57-1 | 57-1 | 57-2 | 57-2 | 57-2 | 57-3 |
| 400.00 | 64-11 | 65-0 | 65-1 | 65-1 | 65-2 | 65-3 | 65-3 | 65-4 | 65-4 | 65-4 |
| 425.00 | 73-7 | 73-8 | 73-9 | 73-10 | 73-11 | 73-11 | 74-0 | 74-0 | 74-1 | 74-1 |
| 450.00 | 82-11 | 83-0 | 83-1 | 83-2 | 83-2 | 83-3 | 83-4 | 83-4 | 83-5 | 83-6 |
| 475.00 | 92-10 | 92-11 | 93-0 | 93-1 | 93-2 | 93-3 | 93-3 | 93-4 | 93-5 | 93-5 |
| 500.00 | 103-4 | 103-5 | 103-7 | 103-8 | 103-9 | 103-10 | 103-10 | 103-11 | 104-0 | 104-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



OH812.95

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 26-3 | 26-3 | 26-3 | 26-3 | 26-4 | 26-4 | 26-4 | 26-4 | 26-4 | 26-4 |
| 275.00 | 31-10 | 31-10 | 31-11 | 31-11 | 31-11 | 31-11 | 31-11 | 31-11 | 32-0 | 32-0 |
| 300.00 | 38-0 | 38-1 | 38-1 | 38-1 | 38-1 | 38-2 | 38-2 | 38-2 | 38-2 | 38-2 |
| 325.00 | 44-10 | 44-10 | 44-10 | 44-10 | 44-11 | 44-11 | 44-11 | 44-11 | 44-11 | 45-0 |
| 350.00 | 52-2 | 52-2 | 52-2 | 52-3 | 52-3 | 52-3 | 52-4 | 52-4 | 52-4 | 52-4 |
| 375.00 | 60-1 | 60-2 | 60-2 | 60-2 | 60-3 | 60-3 | 60-3 | 60-4 | 60-4 | 60-4 |
| 400.00 | 68-8 | 68-9 | 68-9 | 68-10 | 68-10 | 68-10 | 68-11 | 68-11 | 68-11 | 69-0 |
| 425.00 | 77-11 | 78-0 | 78-0 | 78-0 | 78-1 | 78-1 | 78-2 | 78-2 | 78-2 | 78-3 |
| 450.00 | 87-9 | 87-10 | 87-11 | 87-11 | 88-0 | 88-0 | 88-1 | 88-1 | 88-1 | 88-2 |
| 475.00 | 98-4 | 98-5 | 98-5 | 98-6 | 98-6 | 98-7 | 98-7 | 98-8 | 98-8 | 98-9 |
| 500.00 | 109-7 | 109-7 | 109-8 | 109-9 | 109-9 | 109-10 | 109-11 | 109-11 | 109-11 | 110-0 |
| 525.00 | 121-6 | 121-7 | 121-7 | 121-8 | 121-9 | 121-10 | 121-10 | 121-11 | 121-11 | 122-0 |
| 550.00 | 134-2 | 134-3 | 134-3 | 134-4 | 134-5 | 134-6 | 134-7 | 134-7 | 134-8 | 134-8 |
| 575.00 | 147-6 | 147-7 | 147-8 | 147-9 | 147-10 | 147-11 | 148-0 | 148-1 | 148-1 | 148-2 |
| 600.00 | 161-8 | 161-10 | 161-11 | 162-0 | 162-1 | 162-2 | 162-3 | 162-3 | 162-4 | 162-5 |
| 625.00 | 176-8 | 176-9 | 176-11 | 177-0 | 177-1 | 177-2 | 177-3 | 177-4 | 177-4 | 177-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 26-3 | 26-3 | 26-3 | 26-3 | 26-4 | 26-4 | 26-4 | 26-4 | 26-4 | 26-4 |
| 275.00 | 31-10 | 31-10 | 31-11 | 31-11 | 31-11 | 31-11 | 31-11 | 31-11 | 32-0 | 32-0 |
| 300.00 | 38-0 | 38-1 | 38-1 | 38-1 | 38-1 | 38-2 | 38-2 | 38-2 | 38-2 | 38-2 |
| 325.00 | 44-10 | 44-10 | 44-10 | 44-10 | 44-11 | 44-11 | 44-11 | 44-11 | 44-11 | 45-0 |
| 350.00 | 52-2 | 52-2 | 52-3 | 52-3 | 52-3 | 52-3 | 52-4 | 52-4 | 52-4 | 52-4 |
| 375.00 | 60-1 | 60-2 | 60-2 | 60-3 | 60-3 | 60-3 | 60-3 | 60-4 | 60-4 | 60-4 |
| 400.00 | 68-8 | 68-9 | 68-9 | 68-10 | 68-10 | 68-11 | 68-11 | 68-11 | 68-11 | 69-0 |
| 425.00 | 77-11 | 78-0 | 78-0 | 78-1 | 78-1 | 78-1 | 78-2 | 78-2 | 78-2 | 78-3 |
| 450.00 | 87-10 | 87-10 | 87-11 | 87-11 | 88-0 | 88-0 | 88-1 | 88-1 | 88-1 | 88-2 |
| 475.00 | 98-4 | 98-5 | 98-5 | 98-6 | 98-7 | 98-7 | 98-7 | 98-8 | 98-8 | 98-9 |
| 500.00 | 109-7 | 109-8 | 109-8 | 109-9 | 109-10 | 109-10 | 109-11 | 109-11 | 109-11 | 110-0 |
| 525.00 | 121-6 | 121-7 | 121-8 | 121-8 | 121-9 | 121-10 | 121-10 | 121-11 | 121-11 | 122-0 |
| 550.00 | 134-2 | 134-3 | 134-4 | 134-4 | 134-5 | 134-6 | 134-7 | 134-7 | 134-8 | 134-8 |
| 575.00 | 147-7 | 147-8 | 147-9 | 147-10 | 147-11 | 147-11 | 148-0 | 148-1 | 148-1 | 148-2 |
| 600.00 | 161-9 | 161-10 | 161-11 | 162-0 | 162-1 | 162-2 | 162-3 | 162-3 | 162-4 | 162-5 |
| 625.00 | 176-8 | 176-10 | 176-11 | 177-0 | 177-1 | 177-2 | 177-3 | 177-4 | 177-4 | 177-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 2.76 | 2000 | 2.76 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 2.54 | 387 | 2.5 | 393 |
| 30 | 0 | 0 | 0 | 0.785 | 2.8 | 352 | 2.77 | 355 |
| 40 | 0 | 0 | 0 | 0.785 | 2.87 | 343 | 2.85 | 346 |
| 50 | 0 | 0 | 0 | 0.785 | 2.94 | 335 | 2.92 | 337 |
| 60 | 0 | 0 | 0 | 0.785 | 3.01 | 327 | 2.99 | 330 |
| 70 | 0 | 0 | 0 | 0.785 | 3.08 | 320 | 3.05 | 322 |
| 80 | 0 | 0 | 0 | 0.785 | 3.12 | 316 | 3.12 | 316 |
| 90 | 0 | 0 | 0 | 0.785 | 3.16 | 311 | 3.16 | 311 |
| 100 | 0 | 0 | 0 | 0.785 | 3.2 | 307 | 3.2 | 307 |
| 110 | 0 | 0 | 0 | 0.785 | 3.25 | 304 | 3.25 | 304 |
| 120 | 0 | 0 | 0 | 0.785 | 3.29 | 300 | 3.29 | 300 |
| 130 | 0 | 0 | 0 | 0.785 | 3.33 | 296 | 3.33 | 296 |
| 167 | 0 | 0 | 0 | 0.785 | 3.47 | 284 | 3.47 | 284 |
| 212 | 0 | 0 | 0 | 0.785 | 3.64 | 271 | 3.64 | 271 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 11.14 | 2000 | 11.14 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 10.93 | 364 | 10.89 | 365 |
| 30 | 0 | 0 | 0 | 0.785 | 11.18 | 355 | 11.15 | 356 |
| 40 | 0 | 0 | 0 | 0.785 | 11.26 | 353 | 11.23 | 354 |
| 50 | 0 | 0 | 0 | 0.785 | 11.33 | 351 | 11.31 | 352 |
| 60 | 0 | 0 | 0 | 0.785 | 11.4 | 349 | 11.38 | 349 |
| 70 | 0 | 0 | 0 | 0.785 | 11.48 | 347 | 11.45 | 347 |
| 80 | 0 | 0 | 0 | 0.785 | 11.53 | 345 | 11.52 | 345 |
| 90 | 0 | 0 | 0 | 0.785 | 11.58 | 344 | 11.58 | 344 |
| 100 | 0 | 0 | 0 | 0.785 | 11.63 | 342 | 11.63 | 342 |
| 110 | 0 | 0 | 0 | 0.785 | 11.67 | 341 | 11.67 | 341 |
| 120 | 0 | 0 | 0 | 0.785 | 11.72 | 340 | 11.72 | 340 |
| 130 | 0 | 0 | 0 | 0.785 | 11.76 | 338 | 11.76 | 338 |
| 167 | 0 | 0 | 0 | 0.785 | 11.93 | 334 | 11.93 | 334 |
| 212 | 0 | 0 | 0 | 0.785 | 12.14 | 328 | 12.14 | 328 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 25.48 | 2000 | 25.48 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 25.26 | 360 | 25.23 | 360 |
| 30 | 0 | 0 | 0 | 0.785 | 25.52 | 356 | 25.49 | 356 |
| 40 | 0 | 0 | 0 | 0.785 | 25.59 | 355 | 25.57 | 355 |
| 50 | 0 | 0 | 0 | 0.785 | 25.67 | 354 | 25.64 | 354 |
| 60 | 0 | 0 | 0 | 0.785 | 25.74 | 353 | 25.72 | 354 |
| 70 | 0 | 0 | 0 | 0.785 | 25.82 | 352 | 25.79 | 353 |
| 80 | 0 | 0 | 0 | 0.785 | 25.88 | 351 | 25.87 | 352 |
| 90 | 0 | 0 | 0 | 0.785 | 25.92 | 351 | 25.92 | 351 |
| 100 | 0 | 0 | 0 | 0.785 | 25.97 | 350 | 25.97 | 350 |
| 110 | 0 | 0 | 0 | 0.785 | 26.02 | 350 | 26.02 | 350 |
| 120 | 0 | 0 | 0 | 0.785 | 26.07 | 349 | 26.07 | 349 |
| 130 | 0 | 0 | 0 | 0.785 | 26.11 | 348 | 26.11 | 348 |
| 167 | 0 | 0 | 0 | 0.785 | 26.29 | 346 | 26.29 | 346 |
| 212 | 0 | 0 | 0 | 0.785 | 26.5 | 344 | 26.5 | 344 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 46.41 | 2000 | 46.41 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 46.19 | 358 | 46.16 | 358 |
| 30 | 0 | 0 | 0 | 0.785 | 46.44 | 356 | 46.42 | 357 |
| 40 | 0 | 0 | 0 | 0.785 | 46.52 | 356 | 46.5 | 356 |
| 50 | 0 | 0 | 0 | 0.785 | 46.59 | 355 | 46.57 | 355 |
| 60 | 0 | 0 | 0 | 0.785 | 46.67 | 355 | 46.64 | 355 |
| 70 | 0 | 0 | 0 | 0.785 | 46.74 | 354 | 46.72 | 354 |
| 80 | 0 | 0 | 0 | 0.785 | 46.8 | 354 | 46.79 | 354 |
| 90 | 0 | 0 | 0 | 0.785 | 46.85 | 354 | 46.85 | 354 |
| 100 | 0 | 0 | 0 | 0.785 | 46.9 | 353 | 46.9 | 353 |
| 110 | 0 | 0 | 0 | 0.785 | 46.95 | 353 | 46.95 | 353 |
| 120 | 0 | 0 | 0 | 0.785 | 47 | 353 | 47 | 353 |
| 130 | 0 | 0 | 0 | 0.785 | 47.04 | 352 | 47.04 | 352 |
| 167 | 0 | 0 | 0 | 0.785 | 47.22 | 351 | 47.22 | 351 |
| 212 | 0 | 0 | 0 | 0.785 | 47.44 | 350 | 47.44 | 350 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 75.03 | 2000 | 75.03 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 74.81 | 357 | 74.78 | 358 |
| 30 | 0 | 0 | 0 | 0.785 | 75.07 | 356 | 75.04 | 357 |
| 40 | 0 | 0 | 0 | 0.785 | 75.14 | 356 | 75.12 | 356 |
| 50 | 0 | 0 | 0 | 0.785 | 75.22 | 356 | 75.19 | 356 |
| 60 | 0 | 0 | 0 | 0.785 | 75.29 | 356 | 75.27 | 356 |
| 70 | 0 | 0 | 0 | 0.785 | 75.36 | 355 | 75.34 | 355 |
| 80 | 0 | 0 | 0 | 0.785 | 75.42 | 355 | 75.41 | 355 |
| 90 | 0 | 0 | 0 | 0.785 | 75.47 | 355 | 75.47 | 355 |
| 100 | 0 | 0 | 0 | 0.785 | 75.52 | 355 | 75.52 | 355 |
| 110 | 0 | 0 | 0 | 0.785 | 75.57 | 354 | 75.57 | 354 |
| 120 | 0 | 0 | 0 | 0.785 | 75.62 | 354 | 75.62 | 354 |
| 130 | 0 | 0 | 0 | 0.785 | 75.67 | 354 | 75.67 | 354 |
| 167 | 0 | 0 | 0 | 0.785 | 75.84 | 353 | 75.84 | 353 |
| 212 | 0 | 0 | 0 | 0.785 | 76.06 | 353 | 76.06 | 353 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 |
| 100.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 |
| 125.00 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-11 | 4-11 | 5-0 | 5-1 |
| 150.00 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 |
| 175.00 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 |
| 200.00 | 10-9 | 11-1 | 11-5 | 11-9 | 12-0 | 12-3 | 12-6 | 12-8 | 12-10 | 13-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 |
| 100.00 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 |
| 125.00 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 |
| 150.00 | 6-1 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 |
| 175.00 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 |
| 200.00 | 10-11 | 11-3 | 11-6 | 11-10 | 12-1 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 |
| 125.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-6 | 4-7 |
| 150.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 |
| 175.00 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 |
| 200.00 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 |
| 225.00 | 14-0 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-9 |
| 250.00 | 17-4 | 17-6 | 17-7 | 17-8 | 17-10 | 17-11 | 18-1 | 18-2 | 18-3 | 18-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 |
| 125.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-6 | 4-7 |
| 150.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 |
| 175.00 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 |
| 200.00 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-8 |
| 225.00 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-9 |
| 250.00 | 17-5 | 17-6 | 17-8 | 17-9 | 17-10 | 18-0 | 18-1 | 18-2 | 18-3 | 18-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.101

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-5 | 6-5 | 6-5 |
| 175.00 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 |
| 200.00 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 |
| 225.00 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 |
| 250.00 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 |
| 275.00 | 21-4 | 21-5 | 21-5 | 21-6 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 |
| 300.00 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-10 | 25-11 | 26-0 | 26-0 |
| 325.00 | 29-10 | 30-0 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-6 | 30-6 | 30-7 |
| 350.00 | 34-8 | 34-10 | 34-11 | 35-0 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-6 |
| 375.00 | 39-11 | 40-1 | 40-2 | 40-3 | 40-5 | 40-6 | 40-8 | 40-9 | 40-10 | 40-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-5 | 6-5 | 6-5 |
| 175.00 | 8-7 | 8-8 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 |
| 200.00 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 |
| 225.00 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 |
| 250.00 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 |
| 275.00 | 21-4 | 21-5 | 21-6 | 21-6 | 21-7 | 21-8 | 21-9 | 21-9 | 21-9 | 21-10 |
| 300.00 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 |
| 325.00 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-6 | 30-6 | 30-7 |
| 350.00 | 34-9 | 34-10 | 34-11 | 35-1 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-6 |
| 375.00 | 39-11 | 40-1 | 40-2 | 40-4 | 40-5 | 40-7 | 40-8 | 40-9 | 40-10 | 40-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 | 11-7 | 11-7 |
| 225.00 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-8 |
| 250.00 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 | 18-1 | 18-1 | 18-1 | 18-1 | 18-2 |
| 275.00 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 | 22-0 | 22-0 |
| 300.00 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-1 | 26-2 | 26-2 | 26-2 |
| 325.00 | 30-5 | 30-6 | 30-6 | 30-7 | 30-7 | 30-8 | 30-8 | 30-9 | 30-9 | 30-10 |
| 350.00 | 35-4 | 35-5 | 35-5 | 35-6 | 35-7 | 35-7 | 35-8 | 35-9 | 35-9 | 35-10 |
| 375.00 | 40-8 | 40-9 | 40-9 | 40-10 | 40-11 | 41-0 | 41-0 | 41-1 | 41-2 | 41-2 |
| 400.00 | 46-4 | 46-5 | 46-6 | 46-7 | 46-8 | 46-9 | 46-9 | 46-10 | 46-11 | 46-11 |
| 425.00 | 52-5 | 52-6 | 52-7 | 52-8 | 52-9 | 52-10 | 52-11 | 53-0 | 53-1 | 53-1 |
| 450.00 | 58-11 | 59-0 | 59-1 | 59-3 | 59-4 | 59-5 | 59-6 | 59-7 | 59-8 | 59-8 |
| 475.00 | 65-10 | 65-11 | 66-0 | 66-2 | 66-3 | 66-4 | 66-6 | 66-7 | 66-7 | 66-8 |
| 500.00 | 73-1 | 73-3 | 73-4 | 73-6 | 73-7 | 73-9 | 73-10 | 73-11 | 74-0 | 74-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-5 | 11-6 | 11-6 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 | 11-7 | 11-7 |
| 225.00 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-8 |
| 250.00 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 | 18-1 | 18-1 | 18-1 | 18-1 | 18-2 |
| 275.00 | 21-9 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 | 22-0 | 22-0 |
| 300.00 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-1 | 26-1 | 26-2 | 26-2 | 26-2 |
| 325.00 | 30-5 | 30-6 | 30-6 | 30-7 | 30-8 | 30-8 | 30-9 | 30-9 | 30-9 | 30-10 |
| 350.00 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 | 35-8 | 35-9 | 35-9 | 35-10 |
| 375.00 | 40-8 | 40-9 | 40-10 | 40-10 | 40-11 | 41-0 | 41-1 | 41-1 | 41-2 | 41-2 |
| 400.00 | 46-4 | 46-5 | 46-6 | 46-7 | 46-8 | 46-9 | 46-10 | 46-10 | 46-11 | 46-11 |
| 425.00 | 52-5 | 52-7 | 52-8 | 52-9 | 52-10 | 52-11 | 52-11 | 53-0 | 53-1 | 53-1 |
| 450.00 | 58-11 | 59-1 | 59-2 | 59-3 | 59-4 | 59-5 | 59-6 | 59-7 | 59-8 | 59-8 |
| 475.00 | 65-10 | 66-0 | 66-1 | 66-2 | 66-3 | 66-5 | 66-6 | 66-7 | 66-7 | 66-8 |
| 500.00 | 73-2 | 73-3 | 73-5 | 73-6 | 73-8 | 73-9 | 73-10 | 73-11 | 74-0 | 74-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



OH812.103

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-4 | 18-4 | 18-5 | 18-5 | 18-5 | 18-5 | 18-5 | 18-6 | 18-6 | 18-6 |
| 275.00 | 22-3 | 22-3 | 22-3 | 22-4 | 22-4 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 |
| 300.00 | 26-6 | 26-6 | 26-7 | 26-7 | 26-7 | 26-8 | 26-8 | 26-8 | 26-8 | 26-9 |
| 325.00 | 31-2 | 31-2 | 31-3 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-5 | 31-5 |
| 350.00 | 36-2 | 36-3 | 36-3 | 36-4 | 36-4 | 36-5 | 36-5 | 36-5 | 36-6 | 36-6 |
| 375.00 | 41-8 | 41-8 | 41-9 | 41-9 | 41-10 | 41-10 | 41-11 | 41-11 | 41-11 | 42-0 |
| 400.00 | 47-6 | 47-6 | 47-7 | 47-8 | 47-8 | 47-9 | 47-9 | 47-10 | 47-10 | 47-10 |
| 425.00 | 53-9 | 53-10 | 53-10 | 53-11 | 53-11 | 54-0 | 54-1 | 54-1 | 54-2 | 54-2 |
| 450.00 | 60-5 | 60-5 | 60-6 | 60-7 | 60-8 | 60-8 | 60-9 | 60-10 | 60-10 | 60-11 |
| 475.00 | 67-6 | 67-6 | 67-7 | 67-8 | 67-9 | 67-10 | 67-10 | 67-11 | 68-0 | 68-0 |
| 500.00 | 74-11 | 75-0 | 75-1 | 75-2 | 75-3 | 75-4 | 75-5 | 75-6 | 75-6 | 75-7 |
| 525.00 | 82-11 | 83-0 | 83-1 | 83-2 | 83-3 | 83-4 | 83-5 | 83-5 | 83-6 | 83-7 |
| 550.00 | 91-3 | 91-4 | 91-5 | 91-6 | 91-7 | 91-8 | 91-10 | 91-10 | 91-11 | 92-0 |
| 575.00 | 100-0 | 100-2 | 100-3 | 100-4 | 100-5 | 100-7 | 100-8 | 100-9 | 100-10 | 100-10 |
| 600.00 | 109-3 | 109-5 | 109-6 | 109-8 | 109-9 | 109-10 | 110-0 | 110-1 | 110-1 | 110-2 |
| 625.00 | 119-0 | 119-1 | 119-3 | 119-4 | 119-6 | 119-7 | 119-9 | 119-10 | 119-11 | 120-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-4 | 18-4 | 18-5 | 18-5 | 18-5 | 18-5 | 18-5 | 18-6 | 18-6 | 18-6 |
| 275.00 | 22-3 | 22-3 | 22-3 | 22-4 | 22-4 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 |
| 300.00 | 26-6 | 26-6 | 26-7 | 26-7 | 26-7 | 26-8 | 26-8 | 26-8 | 26-8 | 26-9 |
| 325.00 | 31-2 | 31-2 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-4 | 31-5 | 31-5 |
| 350.00 | 36-3 | 36-3 | 36-3 | 36-4 | 36-4 | 36-5 | 36-5 | 36-5 | 36-6 | 36-6 |
| 375.00 | 41-8 | 41-8 | 41-9 | 41-9 | 41-10 | 41-10 | 41-11 | 41-11 | 41-11 | 42-0 |
| 400.00 | 47-6 | 47-7 | 47-7 | 47-8 | 47-8 | 47-9 | 47-9 | 47-10 | 47-10 | 47-10 |
| 425.00 | 53-9 | 53-10 | 53-10 | 53-11 | 54-0 | 54-0 | 54-1 | 54-1 | 54-2 | 54-2 |
| 450.00 | 60-5 | 60-6 | 60-6 | 60-7 | 60-8 | 60-9 | 60-9 | 60-10 | 60-10 | 60-11 |
| 475.00 | 67-6 | 67-7 | 67-8 | 67-8 | 67-9 | 67-10 | 67-11 | 67-11 | 68-0 | 68-0 |
| 500.00 | 75-0 | 75-1 | 75-2 | 75-3 | 75-3 | 75-4 | 75-5 | 75-6 | 75-6 | 75-7 |
| 525.00 | 82-11 | 83-0 | 83-1 | 83-2 | 83-3 | 83-4 | 83-5 | 83-5 | 83-6 | 83-7 |
| 550.00 | 91-3 | 91-4 | 91-6 | 91-7 | 91-8 | 91-9 | 91-10 | 91-10 | 91-11 | 92-0 |
| 575.00 | 100-1 | 100-2 | 100-3 | 100-5 | 100-6 | 100-7 | 100-8 | 100-9 | 100-10 | 100-10 |
| 600.00 | 109-4 | 109-5 | 109-7 | 109-8 | 109-9 | 109-11 | 110-0 | 110-1 | 110-1 | 110-2 |
| 625.00 | 119-0 | 119-2 | 119-3 | 119-5 | 119-6 | 119-8 | 119-9 | 119-10 | 119-11 | 120-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 2.21 | 2500 | 2.21 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 1.88 | 523 | 1.82 | 540 |
| 30 | 0 | 0 | 0 | 0.785 | 2.19 | 448 | 2.16 | 456 |
| 40 | 0 | 0 | 0 | 0.785 | 2.29 | 430 | 2.25 | 437 |
| 50 | 0 | 0 | 0 | 0.785 | 2.37 | 415 | 2.34 | 421 |
| 60 | 0 | 0 | 0 | 0.785 | 2.46 | 400 | 2.42 | 406 |
| 70 | 0 | 0 | 0 | 0.785 | 2.54 | 388 | 2.5 | 393 |
| 80 | 0 | 0 | 0 | 0.785 | 2.6 | 378 | 2.58 | 381 |
| 90 | 0 | 0 | 0 | 0.785 | 2.65 | 372 | 2.65 | 372 |
| 100 | 0 | 0 | 0 | 0.785 | 2.7 | 365 | 2.7 | 365 |
| 110 | 0 | 0 | 0 | 0.785 | 2.74 | 359 | 2.74 | 359 |
| 120 | 0 | 0 | 0 | 0.785 | 2.79 | 353 | 2.79 | 353 |
| 130 | 0 | 0 | 0 | 0.785 | 2.84 | 347 | 2.84 | 347 |
| 167 | 0 | 0 | 0 | 0.785 | 3 | 328 | 3 | 328 |
| 212 | 0 | 0 | 0 | 0.785 | 3.19 | 309 | 3.19 | 309 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 8.87 | 2500 | 8.87 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 8.55 | 462 | 8.5 | 465 |
| 30 | 0 | 0 | 0 | 0.785 | 8.86 | 446 | 8.83 | 448 |
| 40 | 0 | 0 | 0 | 0.785 | 8.96 | 442 | 8.92 | 444 |
| 50 | 0 | 0 | 0 | 0.785 | 9.05 | 437 | 9.01 | 439 |
| 60 | 0 | 0 | 0 | 0.785 | 9.14 | 433 | 9.1 | 435 |
| 70 | 0 | 0 | 0 | 0.785 | 9.23 | 429 | 9.19 | 431 |
| 80 | 0 | 0 | 0 | 0.785 | 9.31 | 425 | 9.28 | 427 |
| 90 | 0 | 0 | 0 | 0.785 | 9.37 | 423 | 9.37 | 423 |
| 100 | 0 | 0 | 0 | 0.785 | 9.43 | 420 | 9.43 | 420 |
| 110 | 0 | 0 | 0 | 0.785 | 9.48 | 418 | 9.48 | 418 |
| 120 | 0 | 0 | 0 | 0.785 | 9.54 | 415 | 9.54 | 415 |
| 130 | 0 | 0 | 0 | 0.785 | 9.6 | 413 | 9.6 | 413 |
| 167 | 0 | 0 | 0 | 0.785 | 9.8 | 404 | 9.8 | 404 |
| 212 | 0 | 0 | 0 | 0.785 | 10.04 | 395 | 10.04 | 395 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 20.17 | 2500 | 20.17 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 19.85 | 453 | 19.8 | 454 |
| 30 | 0 | 0 | 0 | 0.785 | 20.16 | 446 | 20.12 | 447 |
| 40 | 0 | 0 | 0 | 0.785 | 20.25 | 444 | 20.21 | 445 |
| 50 | 0 | 0 | 0 | 0.785 | 20.35 | 442 | 20.31 | 443 |
| 60 | 0 | 0 | 0 | 0.785 | 20.44 | 440 | 20.4 | 441 |
| 70 | 0 | 0 | 0 | 0.785 | 20.53 | 438 | 20.49 | 439 |
| 80 | 0 | 0 | 0 | 0.785 | 20.62 | 436 | 20.58 | 437 |
| 90 | 0 | 0 | 0 | 0.785 | 20.68 | 435 | 20.67 | 435 |
| 100 | 0 | 0 | 0 | 0.785 | 20.74 | 434 | 20.74 | 434 |
| 110 | 0 | 0 | 0 | 0.785 | 20.8 | 433 | 20.8 | 433 |
| 120 | 0 | 0 | 0 | 0.785 | 20.86 | 432 | 20.86 | 432 |
| 130 | 0 | 0 | 0 | 0.785 | 20.92 | 430 | 20.92 | 430 |
| 167 | 0 | 0 | 0 | 0.785 | 21.13 | 426 | 21.13 | 426 |
| 212 | 0 | 0 | 0 | 0.785 | 21.39 | 421 | 21.39 | 421 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 36.39 | 2500 | 36.39 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 36.07 | 449 | 36.02 | 450 |
| 30 | 0 | 0 | 0 | 0.785 | 36.38 | 446 | 36.34 | 446 |
| 40 | 0 | 0 | 0 | 0.785 | 36.47 | 445 | 36.43 | 445 |
| 50 | 0 | 0 | 0 | 0.785 | 36.57 | 444 | 36.53 | 444 |
| 60 | 0 | 0 | 0 | 0.785 | 36.66 | 443 | 36.62 | 443 |
| 70 | 0 | 0 | 0 | 0.785 | 36.75 | 442 | 36.71 | 442 |
| 80 | 0 | 0 | 0 | 0.785 | 36.84 | 441 | 36.8 | 441 |
| 90 | 0 | 0 | 0 | 0.785 | 36.9 | 440 | 36.9 | 440 |
| 100 | 0 | 0 | 0 | 0.785 | 36.96 | 439 | 36.96 | 439 |
| 110 | 0 | 0 | 0 | 0.785 | 37.02 | 439 | 37.02 | 439 |
| 120 | 0 | 0 | 0 | 0.785 | 37.08 | 438 | 37.08 | 438 |
| 130 | 0 | 0 | 0 | 0.785 | 37.14 | 437 | 37.14 | 437 |
| 167 | 0 | 0 | 0 | 0.785 | 37.36 | 435 | 37.36 | 435 |
| 212 | 0 | 0 | 0 | 0.785 | 37.63 | 432 | 37.63 | 432 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 58.01 | 2500 | 58.01 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 57.69 | 448 | 57.64 | 448 |
| 30 | 0 | 0 | 0 | 0.785 | 58 | 446 | 57.96 | 446 |
| 40 | 0 | 0 | 0 | 0.785 | 58.09 | 445 | 58.05 | 445 |
| 50 | 0 | 0 | 0 | 0.785 | 58.18 | 445 | 58.14 | 445 |
| 60 | 0 | 0 | 0 | 0.785 | 58.28 | 444 | 58.24 | 444 |
| 70 | 0 | 0 | 0 | 0.785 | 58.37 | 443 | 58.33 | 444 |
| 80 | 0 | 0 | 0 | 0.785 | 58.46 | 443 | 58.42 | 443 |
| 90 | 0 | 0 | 0 | 0.785 | 58.52 | 442 | 58.51 | 442 |
| 100 | 0 | 0 | 0 | 0.785 | 58.58 | 442 | 58.58 | 442 |
| 110 | 0 | 0 | 0 | 0.785 | 58.64 | 441 | 58.64 | 441 |
| 120 | 0 | 0 | 0 | 0.785 | 58.7 | 441 | 58.7 | 441 |
| 130 | 0 | 0 | 0 | 0.785 | 58.76 | 441 | 58.76 | 441 |
| 167 | 0 | 0 | 0 | 0.785 | 58.99 | 439 | 58.99 | 439 |
| 212 | 0 | 0 | 0 | 0.785 | 59.26 | 437 | 59.26 | 437 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 125.00 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-3 |
| 150.00 | 4-7 | 4-10 | 5-1 | 5-3 | 5-5 | 5-8 | 5-10 | 6-0 | 6-1 | 6-2 |
| 175.00 | 6-3 | 6-7 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-3 | 8-5 |
| 200.00 | 8-3 | 8-8 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-7 | 10-10 | 11-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 125.00 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 |
| 150.00 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 |
| 175.00 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-3 | 8-5 |
| 200.00 | 8-5 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 | 10-5 | 10-7 | 10-10 | 11-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 |
| 125.00 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 |
| 150.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 175.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 |
| 200.00 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 225.00 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 |
| 250.00 | 13-8 | 13-10 | 13-11 | 14-1 | 14-3 | 14-5 | 14-6 | 14-8 | 14-9 | 14-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 |
| 125.00 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-8 |
| 150.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 175.00 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 |
| 200.00 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 |
| 225.00 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-10 | 11-11 | 12-0 |
| 250.00 | 13-9 | 13-10 | 14-0 | 14-2 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS



OH812.109

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 |
| 175.00 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-0 | 7-1 |
| 200.00 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 |
| 225.00 | 11-3 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 |
| 250.00 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 |
| 275.00 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-5 |
| 300.00 | 20-0 | 20-1 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 |
| 325.00 | 23-6 | 23-8 | 23-9 | 23-10 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 |
| 350.00 | 27-4 | 27-5 | 27-7 | 27-8 | 27-10 | 27-11 | 28-1 | 28-2 | 28-4 | 28-4 |
| 375.00 | 31-5 | 31-7 | 31-8 | 31-10 | 32-0 | 32-2 | 32-3 | 32-5 | 32-6 | 32-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 |
| 175.00 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-0 | 7-1 |
| 200.00 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-3 |
| 225.00 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 |
| 250.00 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-4 | 14-4 | 14-5 |
| 275.00 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 |
| 300.00 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 |
| 325.00 | 23-7 | 23-8 | 23-10 | 23-11 | 24-0 | 24-1 | 24-3 | 24-4 | 24-4 | 24-5 |
| 350.00 | 27-4 | 27-6 | 27-8 | 27-9 | 27-11 | 28-0 | 28-2 | 28-3 | 28-4 | 28-4 |
| 375.00 | 31-5 | 31-7 | 31-9 | 31-11 | 32-1 | 32-2 | 32-4 | 32-5 | 32-6 | 32-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-2 |
| 225.00 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 | 11-7 | 11-8 |
| 250.00 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 |
| 275.00 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-5 |
| 300.00 | 20-3 | 20-4 | 20-5 | 20-5 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-9 |
| 325.00 | 23-10 | 23-11 | 24-0 | 24-0 | 24-1 | 24-2 | 24-2 | 24-3 | 24-4 | 24-4 |
| 350.00 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-0 | 28-1 | 28-2 | 28-3 | 28-3 |
| 375.00 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-5 | 32-6 |
| 400.00 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-9 | 36-10 | 36-11 | 37-0 | 37-0 |
| 425.00 | 41-0 | 41-1 | 41-2 | 41-4 | 41-5 | 41-6 | 41-7 | 41-9 | 41-9 | 41-10 |
| 450.00 | 46-0 | 46-2 | 46-3 | 46-4 | 46-6 | 46-7 | 46-9 | 46-10 | 46-11 | 47-0 |
| 475.00 | 51-4 | 51-6 | 51-7 | 51-9 | 51-10 | 52-0 | 52-2 | 52-3 | 52-4 | 52-5 |
| 500.00 | 56-11 | 57-2 | 57-3 | 57-5 | 57-7 | 57-9 | 57-10 | 58-0 | 58-1 | 58-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-2 |
| 225.00 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 | 11-7 | 11-8 |
| 250.00 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-4 |
| 275.00 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-5 |
| 300.00 | 20-4 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-9 |
| 325.00 | 23-10 | 23-11 | 24-0 | 24-1 | 24-1 | 24-2 | 24-3 | 24-3 | 24-4 | 24-4 |
| 350.00 | 27-9 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 |
| 375.00 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-5 | 32-6 |
| 400.00 | 36-3 | 36-5 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-0 |
| 425.00 | 41-0 | 41-2 | 41-3 | 41-4 | 41-5 | 41-7 | 41-8 | 41-9 | 41-9 | 41-10 |
| 450.00 | 46-1 | 46-2 | 46-4 | 46-5 | 46-6 | 46-8 | 46-9 | 46-10 | 46-11 | 47-0 |
| 475.00 | 51-5 | 51-6 | 51-8 | 51-10 | 51-11 | 52-1 | 52-2 | 52-3 | 52-4 | 52-5 |
| 500.00 | 57-0 | 57-2 | 57-4 | 57-6 | 57-8 | 57-9 | 57-11 | 58-0 | 58-1 | 58-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-3 | 14-4 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-5 | 14-6 |
| 275.00 | 17-4 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 |
| 300.00 | 20-7 | 20-8 | 20-8 | 20-8 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 |
| 325.00 | 24-2 | 24-3 | 24-3 | 24-4 | 24-4 | 24-5 | 24-5 | 24-6 | 24-6 | 24-6 |
| 350.00 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 | 28-4 | 28-4 | 28-5 | 28-5 | 28-6 |
| 375.00 | 32-4 | 32-4 | 32-5 | 32-6 | 32-6 | 32-7 | 32-7 | 32-8 | 32-8 | 32-9 |
| 400.00 | 36-10 | 36-10 | 36-11 | 37-0 | 37-0 | 37-1 | 37-2 | 37-3 | 37-3 | 37-4 |
| 425.00 | 41-7 | 41-8 | 41-9 | 41-10 | 41-10 | 41-11 | 42-0 | 42-1 | 42-1 | 42-2 |
| 450.00 | 46-8 | 46-10 | 46-10 | 46-11 | 47-0 | 47-1 | 47-2 | 47-3 | 47-4 | 47-4 |
| 475.00 | 52-1 | 52-3 | 52-4 | 52-5 | 52-6 | 52-7 | 52-8 | 52-9 | 52-9 | 52-10 |
| 500.00 | 57-10 | 58-0 | 58-1 | 58-2 | 58-3 | 58-4 | 58-5 | 58-6 | 58-7 | 58-8 |
| 525.00 | 63-11 | 64-0 | 64-1 | 64-3 | 64-4 | 64-5 | 64-6 | 64-8 | 64-8 | 64-9 |
| 550.00 | 70-3 | 70-5 | 70-6 | 70-7 | 70-9 | 70-10 | 70-11 | 71-1 | 71-2 | 71-3 |
| 575.00 | 76-11 | 77-1 | 77-2 | 77-4 | 77-5 | 77-7 | 77-8 | 77-10 | 77-11 | 78-0 |
| 600.00 | 83-11 | 84-1 | 84-3 | 84-4 | 84-6 | 84-8 | 84-9 | 84-11 | 85-0 | 85-1 |
| 625.00 | 91-3 | 91-5 | 91-7 | 91-9 | 91-11 | 92-0 | 92-2 | 92-4 | 92-5 | 92-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-3 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-5 | 14-5 | 14-6 |
| 275.00 | 17-4 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 |
| 300.00 | 20-7 | 20-8 | 20-8 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 |
| 325.00 | 24-3 | 24-3 | 24-4 | 24-4 | 24-5 | 24-5 | 24-5 | 24-6 | 24-6 | 24-6 |
| 350.00 | 28-1 | 28-2 | 28-3 | 28-3 | 28-4 | 28-4 | 28-5 | 28-5 | 28-5 | 28-6 |
| 375.00 | 32-4 | 32-5 | 32-5 | 32-6 | 32-6 | 32-7 | 32-8 | 32-8 | 32-8 | 32-9 |
| 400.00 | 36-10 | 36-11 | 36-11 | 37-0 | 37-1 | 37-1 | 37-2 | 37-3 | 37-3 | 37-4 |
| 425.00 | 41-8 | 41-8 | 41-9 | 41-10 | 41-11 | 42-0 | 42-0 | 42-1 | 42-1 | 42-2 |
| 450.00 | 46-9 | 46-10 | 46-11 | 47-0 | 47-1 | 47-1 | 47-2 | 47-3 | 47-4 | 47-4 |
| 475.00 | 52-2 | 52-3 | 52-4 | 52-5 | 52-6 | 52-7 | 52-8 | 52-9 | 52-9 | 52-10 |
| 500.00 | 57-11 | 58-0 | 58-1 | 58-2 | 58-3 | 58-4 | 58-6 | 58-6 | 58-7 | 58-8 |
| 525.00 | 63-11 | 64-1 | 64-2 | 64-3 | 64-4 | 64-6 | 64-7 | 64-8 | 64-8 | 64-9 |
| 550.00 | 70-4 | 70-5 | 70-7 | 70-8 | 70-9 | 70-11 | 71-0 | 71-1 | 71-2 | 71-3 |
| 575.00 | 77-0 | 77-2 | 77-3 | 77-5 | 77-6 | 77-8 | 77-9 | 77-10 | 77-11 | 78-0 |
| 600.00 | 84-0 | 84-2 | 84-3 | 84-5 | 84-7 | 84-8 | 84-10 | 84-11 | 85-0 | 85-1 |
| 625.00 | 91-4 | 91-6 | 91-8 | 91-10 | 91-11 | 92-1 | 92-3 | 92-4 | 92-5 | 92-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 1.84 | 3000 | 1.84 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 1.38 | 710 | 1.3 | 758 |
| 30 | 0 | 0 | 0 | 0.785 | 1.76 | 560 | 1.7 | 579 |
| 40 | 0 | 0 | 0 | 0.785 | 1.86 | 527 | 1.81 | 543 |
| 50 | 0 | 0 | 0 | 0.785 | 1.97 | 499 | 1.91 | 514 |
| 60 | 0 | 0 | 0 | 0.785 | 2.07 | 475 | 2.01 | 488 |
| 70 | 0 | 0 | 0 | 0.785 | 2.16 | 455 | 2.11 | 466 |
| 80 | 0 | 0 | 0 | 0.785 | 2.24 | 439 | 2.2 | 446 |
| 90 | 0 | 0 | 0 | 0.785 | 2.3 | 428 | 2.29 | 429 |
| 100 | 0 | 0 | 0 | 0.785 | 2.35 | 418 | 2.35 | 419 |
| 110 | 0 | 0 | 0 | 0.785 | 2.4 | 409 | 2.4 | 409 |
| 120 | 0 | 0 | 0 | 0.785 | 2.46 | 401 | 2.45 | 401 |
| 130 | 0 | 0 | 0 | 0.785 | 2.51 | 392 | 2.51 | 393 |
| 167 | 0 | 0 | 0 | 0.785 | 2.69 | 366 | 2.69 | 366 |
| 212 | 0 | 0 | 0 | 0.785 | 2.9 | 340 | 2.9 | 340 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 7.38 | 3000 | 7.38 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 6.93 | 569 | 6.85 | 576 |
| 30 | 0 | 0 | 0 | 0.785 | 7.29 | 541 | 7.24 | 545 |
| 40 | 0 | 0 | 0 | 0.785 | 7.41 | 533 | 7.35 | 537 |
| 50 | 0 | 0 | 0 | 0.785 | 7.52 | 525 | 7.46 | 529 |
| 60 | 0 | 0 | 0 | 0.785 | 7.63 | 518 | 7.57 | 522 |
| 70 | 0 | 0 | 0 | 0.785 | 7.73 | 511 | 7.67 | 515 |
| 80 | 0 | 0 | 0 | 0.785 | 7.84 | 504 | 7.78 | 508 |
| 90 | 0 | 0 | 0 | 0.785 | 7.91 | 499 | 7.88 | 501 |
| 100 | 0 | 0 | 0 | 0.785 | 7.98 | 495 | 7.98 | 495 |
| 110 | 0 | 0 | 0 | 0.785 | 8.05 | 491 | 8.05 | 491 |
| 120 | 0 | 0 | 0 | 0.785 | 8.11 | 487 | 8.11 | 487 |
| 130 | 0 | 0 | 0 | 0.785 | 8.18 | 483 | 8.18 | 483 |
| 167 | 0 | 0 | 0 | 0.785 | 8.41 | 470 | 8.41 | 470 |
| 212 | 0 | 0 | 0 | 0.785 | 8.69 | 455 | 8.69 | 455 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 16.71 | 3000 | 16.71 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 16.27 | 549 | 16.19 | 552 |
| 30 | 0 | 0 | 0 | 0.785 | 16.63 | 538 | 16.57 | 539 |
| 40 | 0 | 0 | 0 | 0.785 | 16.74 | 534 | 16.69 | 536 |
| 50 | 0 | 0 | 0 | 0.785 | 16.86 | 531 | 16.8 | 532 |
| 60 | 0 | 0 | 0 | 0.785 | 16.97 | 527 | 16.91 | 529 |
| 70 | 0 | 0 | 0 | 0.785 | 17.08 | 524 | 17.02 | 526 |
| 80 | 0 | 0 | 0 | 0.785 | 17.19 | 521 | 17.13 | 522 |
| 90 | 0 | 0 | 0 | 0.785 | 17.27 | 518 | 17.23 | 519 |
| 100 | 0 | 0 | 0 | 0.785 | 17.34 | 516 | 17.34 | 516 |
| 110 | 0 | 0 | 0 | 0.785 | 17.41 | 514 | 17.41 | 514 |
| 120 | 0 | 0 | 0 | 0.785 | 17.48 | 512 | 17.48 | 512 |
| 130 | 0 | 0 | 0 | 0.785 | 17.55 | 510 | 17.55 | 510 |
| 167 | 0 | 0 | 0 | 0.785 | 17.8 | 503 | 17.8 | 503 |
| 212 | 0 | 0 | 0 | 0.785 | 18.11 | 495 | 18.11 | 495 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 30.01 | 3000 | 30.01 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 29.57 | 543 | 29.49 | 544 |
| 30 | 0 | 0 | 0 | 0.785 | 29.93 | 536 | 29.87 | 537 |
| 40 | 0 | 0 | 0 | 0.785 | 30.04 | 534 | 29.98 | 535 |
| 50 | 0 | 0 | 0 | 0.785 | 30.15 | 533 | 30.09 | 534 |
| 60 | 0 | 0 | 0 | 0.785 | 30.27 | 531 | 30.21 | 532 |
| 70 | 0 | 0 | 0 | 0.785 | 30.38 | 529 | 30.32 | 530 |
| 80 | 0 | 0 | 0 | 0.785 | 30.49 | 527 | 30.43 | 528 |
| 90 | 0 | 0 | 0 | 0.785 | 30.58 | 525 | 30.54 | 526 |
| 100 | 0 | 0 | 0 | 0.785 | 30.65 | 524 | 30.65 | 524 |
| 110 | 0 | 0 | 0 | 0.785 | 30.72 | 523 | 30.72 | 523 |
| 120 | 0 | 0 | 0 | 0.785 | 30.79 | 522 | 30.79 | 522 |
| 130 | 0 | 0 | 0 | 0.785 | 30.86 | 521 | 30.86 | 521 |
| 167 | 0 | 0 | 0 | 0.785 | 31.12 | 517 | 31.12 | 517 |
| 212 | 0 | 0 | 0 | 0.785 | 31.44 | 512 | 31.44 | 512 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.403 | 47.52 | 3000 | 47.52 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 47.08 | 540 | 47 | 540 |
| 30 | 0 | 0 | 0 | 0.785 | 47.44 | 536 | 47.38 | 536 |
| 40 | 0 | 0 | 0 | 0.785 | 47.55 | 535 | 47.49 | 535 |
| 50 | 0 | 0 | 0 | 0.785 | 47.66 | 533 | 47.6 | 534 |
| 60 | 0 | 0 | 0 | 0.785 | 47.78 | 532 | 47.71 | 533 |
| 70 | 0 | 0 | 0 | 0.785 | 47.89 | 531 | 47.83 | 532 |
| 80 | 0 | 0 | 0 | 0.785 | 48 | 530 | 47.94 | 531 |
| 90 | 0 | 0 | 0 | 0.785 | 48.09 | 529 | 48.05 | 529 |
| 100 | 0 | 0 | 0 | 0.785 | 48.16 | 528 | 48.16 | 528 |
| 110 | 0 | 0 | 0 | 0.785 | 48.23 | 528 | 48.23 | 528 |
| 120 | 0 | 0 | 0 | 0.785 | 48.31 | 527 | 48.3 | 527 |
| 130 | 0 | 0 | 0 | 0.785 | 48.38 | 526 | 48.38 | 526 |
| 167 | 0 | 0 | 0 | 0.785 | 48.64 | 523 | 48.64 | 523 |
| 212 | 0 | 0 | 0 | 0.785 | 48.96 | 520 | 48.96 | 520 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 |
| 100.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 125.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 |
| 150.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 5-0 | 5-2 | 5-3 | 5-5 |
| 175.00 | 4-10 | 5-2 | 5-7 | 5-10 | 6-2 | 6-6 | 6-9 | 7-0 | 7-2 | 7-4 |
| 200.00 | 6-4 | 6-10 | 7-3 | 7-8 | 8-1 | 8-5 | 8-10 | 9-2 | 9-5 | 9-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 |
| 100.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 |
| 125.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 150.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-2 | 5-4 | 5-5 |
| 175.00 | 5-0 | 5-5 | 5-9 | 6-0 | 6-4 | 6-8 | 6-10 | 7-1 | 7-2 | 7-4 |
| 200.00 | 6-7 | 7-0 | 7-6 | 7-11 | 8-3 | 8-8 | 9-0 | 9-2 | 9-5 | 9-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.116

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 |
| 125.00 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 |
| 150.00 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 |
| 175.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 |
| 200.00 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 |
| 225.00 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 |
| 250.00 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 |
| 125.00 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 | 3-2 |
| 150.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 |
| 175.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 |
| 200.00 | 7-2 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 |
| 225.00 | 9-1 | 9-3 | 9-5 | 9-6 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 |
| 250.00 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 | 12-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 175.00 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 |
| 200.00 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 |
| 225.00 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 |
| 250.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 |
| 275.00 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 | 14-7 |
| 300.00 | 16-5 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 | 17-5 |
| 325.00 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-5 |
| 350.00 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-2 | 23-4 | 23-6 | 23-8 | 23-9 |
| 375.00 | 25-9 | 25-11 | 26-2 | 26-4 | 26-6 | 26-8 | 26-10 | 27-0 | 27-2 | 27-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 175.00 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 |
| 200.00 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 |
| 225.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 250.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 |
| 275.00 | 13-10 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-7 |
| 300.00 | 16-6 | 16-8 | 16-9 | 16-10 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 |
| 325.00 | 19-5 | 19-6 | 19-8 | 19-10 | 19-11 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 |
| 350.00 | 22-6 | 22-8 | 22-10 | 23-0 | 23-2 | 23-3 | 23-5 | 23-7 | 23-8 | 23-9 |
| 375.00 | 25-10 | 26-1 | 26-3 | 26-5 | 26-7 | 26-9 | 26-11 | 27-1 | 27-2 | 27-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 |
| 225.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 |
| 250.00 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 |
| 275.00 | 14-0 | 14-1 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 |
| 300.00 | 16-8 | 16-9 | 16-10 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 |
| 325.00 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-0 | 20-1 | 20-2 | 20-3 |
| 350.00 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 |
| 375.00 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-9 | 26-10 | 26-11 | 27-0 |
| 400.00 | 29-9 | 29-10 | 30-0 | 30-1 | 30-2 | 30-4 | 30-5 | 30-6 | 30-8 | 30-9 |
| 425.00 | 33-7 | 33-9 | 33-11 | 34-0 | 34-2 | 34-3 | 34-5 | 34-6 | 34-8 | 34-9 |
| 450.00 | 37-9 | 37-11 | 38-0 | 38-2 | 38-4 | 38-5 | 38-7 | 38-9 | 38-10 | 39-0 |
| 475.00 | 42-1 | 42-3 | 42-5 | 42-7 | 42-9 | 42-11 | 43-0 | 43-2 | 43-4 | 43-5 |
| 500.00 | 46-8 | 46-10 | 47-1 | 47-3 | 47-5 | 47-7 | 47-9 | 47-11 | 48-1 | 48-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 |
| 225.00 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 |
| 250.00 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 |
| 275.00 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 |
| 300.00 | 16-9 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 | 17-2 | 17-3 |
| 325.00 | 19-8 | 19-9 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-2 | 20-3 |
| 350.00 | 22-9 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 | 23-6 |
| 375.00 | 26-2 | 26-3 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 |
| 400.00 | 29-10 | 29-11 | 30-1 | 30-2 | 30-3 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 |
| 425.00 | 33-8 | 33-10 | 33-11 | 34-1 | 34-2 | 34-4 | 34-5 | 34-7 | 34-8 | 34-9 |
| 450.00 | 37-10 | 37-11 | 38-1 | 38-3 | 38-5 | 38-6 | 38-8 | 38-9 | 38-10 | 39-0 |
| 475.00 | 42-2 | 42-4 | 42-6 | 42-8 | 42-10 | 43-0 | 43-2 | 43-3 | 43-4 | 43-5 |
| 500.00 | 46-9 | 47-0 | 47-2 | 47-4 | 47-6 | 47-8 | 47-10 | 48-0 | 48-1 | 48-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 11-11 |
| 275.00 | 14-2 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 |
| 300.00 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-2 | 17-3 |
| 325.00 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 | 20-2 | 20-2 | 20-3 |
| 350.00 | 23-0 | 23-1 | 23-2 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 |
| 375.00 | 26-5 | 26-6 | 26-7 | 26-8 | 26-8 | 26-9 | 26-10 | 26-11 | 26-11 | 27-0 |
| 400.00 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-6 | 30-7 | 30-7 | 30-8 | 30-9 |
| 425.00 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 |
| 450.00 | 38-2 | 38-4 | 38-5 | 38-6 | 38-7 | 38-8 | 38-9 | 38-10 | 38-11 | 39-0 |
| 475.00 | 42-7 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-3 | 43-4 | 43-5 | 43-6 |
| 500.00 | 47-3 | 47-5 | 47-6 | 47-7 | 47-9 | 47-10 | 47-11 | 48-1 | 48-2 | 48-3 |
| 525.00 | 52-2 | 52-4 | 52-5 | 52-7 | 52-8 | 52-10 | 52-11 | 53-0 | 53-2 | 53-3 |
| 550.00 | 57-4 | 57-6 | 57-7 | 57-9 | 57-11 | 58-0 | 58-2 | 58-3 | 58-5 | 58-6 |
| 575.00 | 62-9 | 62-11 | 63-1 | 63-2 | 63-4 | 63-6 | 63-8 | 63-9 | 63-11 | 64-0 |
| 600.00 | 68-5 | 68-7 | 68-9 | 68-11 | 69-1 | 69-3 | 69-5 | 69-7 | 69-9 | 69-10 |
| 625.00 | 74-4 | 74-6 | 74-8 | 74-10 | 75-1 | 75-3 | 75-5 | 75-7 | 75-9 | 75-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 11-11 |
| 275.00 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 |
| 300.00 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-2 | 17-3 |
| 325.00 | 19-10 | 19-11 | 19-11 | 20-0 | 20-1 | 20-1 | 20-2 | 20-2 | 20-2 | 20-3 |
| 350.00 | 23-1 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 | 23-5 | 23-5 | 23-5 | 23-6 |
| 375.00 | 26-6 | 26-7 | 26-7 | 26-8 | 26-9 | 26-10 | 26-10 | 26-11 | 26-11 | 27-0 |
| 400.00 | 30-2 | 30-3 | 30-4 | 30-5 | 30-5 | 30-6 | 30-7 | 30-8 | 30-8 | 30-9 |
| 425.00 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-7 | 34-8 | 34-8 | 34-9 |
| 450.00 | 38-3 | 38-4 | 38-5 | 38-6 | 38-7 | 38-8 | 38-9 | 38-10 | 38-11 | 39-0 |
| 475.00 | 42-8 | 42-9 | 42-10 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 |
| 500.00 | 47-4 | 47-5 | 47-7 | 47-8 | 47-9 | 47-11 | 48-0 | 48-1 | 48-2 | 48-3 |
| 525.00 | 52-3 | 52-4 | 52-6 | 52-7 | 52-9 | 52-10 | 53-0 | 53-1 | 53-2 | 53-3 |
| 550.00 | 57-5 | 57-7 | 57-8 | 57-10 | 57-11 | 58-1 | 58-3 | 58-4 | 58-5 | 58-6 |
| 575.00 | 62-10 | 63-0 | 63-2 | 63-3 | 63-5 | 63-7 | 63-9 | 63-10 | 63-11 | 64-0 |
| 600.00 | 68-6 | 68-8 | 68-10 | 69-0 | 69-2 | 69-4 | 69-6 | 69-7 | 69-9 | 69-10 |
| 625.00 | 74-5 | 74-7 | 74-10 | 75-0 | 75-2 | 75-4 | 75-6 | 75-8 | 75-9 | 75-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 1.49 | 987 | 1.47 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 0.99 | 987 | 0.98 | 1007 |
| 30 | 0 | 0 | 0 | 0.785 | 1.15 | 855 | 1.13 | 872 |
| 40 | 0 | 0 | 0 | 0.785 | 1.29 | 759 | 1.27 | 774 |
| 50 | 0 | 0 | 0 | 0.785 | 1.43 | 687 | 1.4 | 700 |
| 60 | 0 | 0 | 0 | 0.785 | 1.56 | 631 | 1.53 | 642 |
| 70 | 0 | 0 | 0 | 0.785 | 1.68 | 586 | 1.65 | 595 |
| 80 | 0 | 0 | 0 | 0.785 | 1.79 | 549 | 1.76 | 557 |
| 90 | 0 | 0 | 0 | 0.785 | 1.9 | 518 | 1.87 | 525 |
| 100 | 0 | 0 | 0 | 0.785 | 1.97 | 500 | 1.97 | 500 |
| 110 | 0 | 0 | 0 | 0.785 | 2.03 | 485 | 2.03 | 485 |
| 120 | 0 | 0 | 0 | 0.785 | 2.09 | 471 | 2.09 | 471 |
| 130 | 0 | 0 | 0 | 0.785 | 2.14 | 458 | 2.14 | 459 |
| 167 | 0 | 0 | 0 | 0.785 | 2.35 | 419 | 2.35 | 419 |
| 212 | 0 | 0 | 0 | 0.785 | 2.58 | 381 | 2.58 | 381 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 5.94 | 996 | 5.91 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 5.44 | 723 | 5.41 | 727 |
| 30 | 0 | 0 | 0 | 0.785 | 5.59 | 705 | 5.56 | 708 |
| 40 | 0 | 0 | 0 | 0.785 | 5.73 | 687 | 5.7 | 691 |
| 50 | 0 | 0 | 0 | 0.785 | 5.87 | 671 | 5.84 | 675 |
| 60 | 0 | 0 | 0 | 0.785 | 6.01 | 656 | 5.97 | 659 |
| 70 | 0 | 0 | 0 | 0.785 | 6.14 | 641 | 6.11 | 645 |
| 80 | 0 | 0 | 0 | 0.785 | 6.27 | 628 | 6.24 | 632 |
| 90 | 0 | 0 | 0 | 0.785 | 6.4 | 616 | 6.37 | 619 |
| 100 | 0 | 0 | 0 | 0.785 | 6.53 | 604 | 6.49 | 607 |
| 110 | 0 | 0 | 0 | 0.785 | 6.61 | 597 | 6.61 | 597 |
| 120 | 0 | 0 | 0 | 0.785 | 6.68 | 590 | 6.68 | 590 |
| 130 | 0 | 0 | 0 | 0.785 | 6.76 | 583 | 6.76 | 583 |
| 167 | 0 | 0 | 0 | 0.785 | 7.04 | 560 | 7.04 | 560 |
| 212 | 0 | 0 | 0 | 0.785 | 7.36 | 536 | 7.36 | 536 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 13.39 | 998 | 13.37 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 12.9 | 690 | 12.87 | 691 |
| 30 | 0 | 0 | 0 | 0.785 | 13.04 | 682 | 13.01 | 684 |
| 40 | 0 | 0 | 0 | 0.785 | 13.18 | 675 | 13.15 | 677 |
| 50 | 0 | 0 | 0 | 0.785 | 13.32 | 668 | 13.29 | 670 |
| 60 | 0 | 0 | 0 | 0.785 | 13.46 | 661 | 13.43 | 663 |
| 70 | 0 | 0 | 0 | 0.785 | 13.6 | 655 | 13.56 | 656 |
| 80 | 0 | 0 | 0 | 0.785 | 13.74 | 648 | 13.7 | 650 |
| 90 | 0 | 0 | 0 | 0.785 | 13.87 | 642 | 13.83 | 644 |
| 100 | 0 | 0 | 0 | 0.785 | 14 | 636 | 13.97 | 638 |
| 110 | 0 | 0 | 0 | 0.785 | 14.1 | 632 | 14.1 | 632 |
| 120 | 0 | 0 | 0 | 0.785 | 14.19 | 628 | 14.19 | 628 |
| 130 | 0 | 0 | 0 | 0.785 | 14.27 | 625 | 14.27 | 625 |
| 167 | 0 | 0 | 0 | 0.785 | 14.58 | 612 | 14.58 | 612 |
| 212 | 0 | 0 | 0 | 0.785 | 14.94 | 597 | 14.94 | 597 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 23.94 | 999 | 23.91 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 23.45 | 679 | 23.42 | 680 |
| 30 | 0 | 0 | 0 | 0.785 | 23.59 | 675 | 23.56 | 676 |
| 40 | 0 | 0 | 0 | 0.785 | 23.73 | 671 | 23.7 | 672 |
| 50 | 0 | 0 | 0 | 0.785 | 23.87 | 667 | 23.84 | 668 |
| 60 | 0 | 0 | 0 | 0.785 | 24.01 | 663 | 23.97 | 664 |
| 70 | 0 | 0 | 0 | 0.785 | 24.15 | 660 | 24.11 | 661 |
| 80 | 0 | 0 | 0 | 0.785 | 24.29 | 656 | 24.25 | 657 |
| 90 | 0 | 0 | 0 | 0.785 | 24.42 | 652 | 24.38 | 653 |
| 100 | 0 | 0 | 0 | 0.785 | 24.56 | 649 | 24.52 | 650 |
| 110 | 0 | 0 | 0 | 0.785 | 24.66 | 646 | 24.65 | 646 |
| 120 | 0 | 0 | 0 | 0.785 | 24.75 | 644 | 24.75 | 644 |
| 130 | 0 | 0 | 0 | 0.785 | 24.84 | 642 | 24.84 | 642 |
| 167 | 0 | 0 | 0 | 0.785 | 25.16 | 634 | 25.16 | 634 |
| 212 | 0 | 0 | 0 | 0.785 | 25.54 | 625 | 25.54 | 625 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 37.7 | 999 | 37.67 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 37.21 | 674 | 37.18 | 674 |
| 30 | 0 | 0 | 0 | 0.785 | 37.35 | 671 | 37.32 | 672 |
| 40 | 0 | 0 | 0 | 0.785 | 37.49 | 669 | 37.46 | 670 |
| 50 | 0 | 0 | 0 | 0.785 | 37.63 | 667 | 37.6 | 667 |
| 60 | 0 | 0 | 0 | 0.785 | 37.77 | 664 | 37.74 | 665 |
| 70 | 0 | 0 | 0 | 0.785 | 37.91 | 662 | 37.87 | 663 |
| 80 | 0 | 0 | 0 | 0.785 | 38.05 | 660 | 38.01 | 660 |
| 90 | 0 | 0 | 0 | 0.785 | 38.19 | 657 | 38.15 | 658 |
| 100 | 0 | 0 | 0 | 0.785 | 38.33 | 655 | 38.28 | 656 |
| 110 | 0 | 0 | 0 | 0.785 | 38.43 | 653 | 38.42 | 654 |
| 120 | 0 | 0 | 0 | 0.785 | 38.52 | 652 | 38.52 | 652 |
| 130 | 0 | 0 | 0 | 0.785 | 38.61 | 651 | 38.61 | 651 |
| 167 | 0 | 0 | 0 | 0.785 | 38.94 | 645 | 38.94 | 645 |
| 212 | 0 | 0 | 0 | 0.785 | 39.33 | 639 | 39.33 | 639 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-0 |
| 125.00 | 1-6 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 |
| 150.00 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-5 | 4-7 |
| 175.00 | 3-0 | 3-5 | 3-11 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-0 | 6-3 |
| 200.00 | 3-11 | 4-6 | 5-1 | 5-7 | 6-2 | 6-7 | 7-1 | 7-6 | 7-11 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-0 |
| 125.00 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-1 | 3-2 |
| 150.00 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-5 | 4-7 |
| 175.00 | 3-1 | 3-6 | 4-0 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 | 6-0 | 6-3 |
| 200.00 | 4-0 | 4-7 | 5-2 | 5-9 | 6-3 | 6-9 | 7-2 | 7-7 | 7-11 | 8-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 |
| 125.00 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 |
| 150.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 175.00 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 |
| 200.00 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 |
| 225.00 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 |
| 250.00 | 8-6 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-2 | 10-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 |
| 125.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 |
| 150.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 175.00 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 |
| 200.00 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 |
| 225.00 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 |
| 250.00 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 |
| 175.00 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 |
| 200.00 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 |
| 225.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 |
| 250.00 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 |
| 275.00 | 10-10 | 10-11 | 11-1 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 |
| 300.00 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-1 |
| 325.00 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 |
| 350.00 | 17-6 | 17-9 | 17-11 | 18-1 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 |
| 375.00 | 20-2 | 20-4 | 20-7 | 20-10 | 21-0 | 21-3 | 21-5 | 21-8 | 21-10 | 22-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 |
| 175.00 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 | 4-9 |
| 200.00 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 |
| 225.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 |
| 250.00 | 8-11 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-9 | 9-9 |
| 275.00 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 |
| 300.00 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 | 13-7 | 13-9 | 13-10 | 14-0 | 14-1 |
| 325.00 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-3 | 16-5 | 16-7 |
| 350.00 | 17-7 | 17-9 | 18-0 | 18-2 | 18-4 | 18-6 | 18-9 | 18-11 | 19-1 | 19-3 |
| 375.00 | 20-2 | 20-5 | 20-8 | 20-10 | 21-1 | 21-3 | 21-6 | 21-8 | 21-11 | 22-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 |
| 225.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 |
| 250.00 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 |
| 275.00 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-7 | 11-7 |
| 300.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 |
| 325.00 | 15-5 | 15-6 | 15-7 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 |
| 350.00 | 17-11 | 18-0 | 18-1 | 18-3 | 18-4 | 18-5 | 18-7 | 18-8 | 18-9 | 18-10 |
| 375.00 | 20-7 | 20-8 | 20-10 | 20-11 | 21-1 | 21-2 | 21-4 | 21-5 | 21-6 | 21-8 |
| 400.00 | 23-5 | 23-7 | 23-8 | 23-10 | 24-0 | 24-1 | 24-3 | 24-5 | 24-6 | 24-8 |
| 425.00 | 26-5 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-8 | 27-10 |
| 450.00 | 29-8 | 29-10 | 30-0 | 30-2 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 |
| 475.00 | 33-1 | 33-3 | 33-6 | 33-8 | 33-10 | 34-1 | 34-3 | 34-5 | 34-8 | 34-10 |
| 500.00 | 36-8 | 36-11 | 37-1 | 37-4 | 37-7 | 37-9 | 38-0 | 38-2 | 38-5 | 38-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-10 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 |
| 225.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 |
| 250.00 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 |
| 275.00 | 11-1 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-8 |
| 300.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 |
| 325.00 | 15-5 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 |
| 350.00 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 |
| 375.00 | 20-7 | 20-9 | 20-10 | 21-0 | 21-1 | 21-3 | 21-4 | 21-5 | 21-7 | 21-8 |
| 400.00 | 23-5 | 23-7 | 23-9 | 23-10 | 24-0 | 24-2 | 24-3 | 24-5 | 24-7 | 24-8 |
| 425.00 | 26-6 | 26-8 | 26-10 | 27-0 | 27-1 | 27-3 | 27-5 | 27-7 | 27-9 | 27-10 |
| 450.00 | 29-9 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 |
| 475.00 | 33-2 | 33-4 | 33-6 | 33-9 | 33-11 | 34-1 | 34-4 | 34-6 | 34-8 | 34-10 |
| 500.00 | 36-9 | 36-11 | 37-2 | 37-5 | 37-7 | 37-10 | 38-1 | 38-3 | 38-6 | 38-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 |
| 275.00 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 |
| 300.00 | 13-4 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-9 |
| 325.00 | 15-8 | 15-8 | 15-9 | 15-10 | 15-10 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 |
| 350.00 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-6 | 18-7 | 18-7 | 18-8 | 18-9 |
| 375.00 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-6 |
| 400.00 | 23-9 | 23-10 | 23-11 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 |
| 425.00 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 |
| 450.00 | 30-1 | 30-2 | 30-4 | 30-5 | 30-6 | 30-8 | 30-9 | 30-10 | 31-0 | 31-1 |
| 475.00 | 33-6 | 33-8 | 33-9 | 33-11 | 34-0 | 34-2 | 34-3 | 34-5 | 34-6 | 34-8 |
| 500.00 | 37-2 | 37-4 | 37-5 | 37-7 | 37-9 | 37-10 | 38-0 | 38-2 | 38-3 | 38-5 |
| 525.00 | 41-0 | 41-2 | 41-4 | 41-6 | 41-8 | 41-9 | 41-11 | 42-1 | 42-3 | 42-5 |
| 550.00 | 45-1 | 45-3 | 45-5 | 45-7 | 45-9 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 |
| 575.00 | 49-3 | 49-6 | 49-8 | 49-10 | 50-0 | 50-3 | 50-5 | 50-7 | 50-9 | 50-11 |
| 600.00 | 53-8 | 53-11 | 54-1 | 54-4 | 54-6 | 54-9 | 54-11 | 55-1 | 55-4 | 55-6 |
| 625.00 | 58-4 | 58-7 | 58-9 | 59-0 | 59-3 | 59-5 | 59-8 | 59-10 | 60-1 | 60-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 |
| 275.00 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 |
| 300.00 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 |
| 325.00 | 15-8 | 15-9 | 15-9 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 |
| 350.00 | 18-2 | 18-3 | 18-4 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-8 | 18-9 |
| 375.00 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 |
| 400.00 | 23-9 | 23-10 | 23-11 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-6 | 24-6 |
| 425.00 | 26-10 | 26-11 | 27-0 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-8 | 27-9 |
| 450.00 | 30-1 | 30-3 | 30-4 | 30-5 | 30-7 | 30-8 | 30-9 | 30-11 | 31-0 | 31-1 |
| 475.00 | 33-7 | 33-8 | 33-10 | 33-11 | 34-1 | 34-2 | 34-4 | 34-5 | 34-7 | 34-8 |
| 500.00 | 37-3 | 37-4 | 37-6 | 37-8 | 37-9 | 37-11 | 38-1 | 38-2 | 38-4 | 38-5 |
| 525.00 | 41-1 | 41-3 | 41-4 | 41-6 | 41-8 | 41-10 | 42-0 | 42-2 | 42-3 | 42-5 |
| 550.00 | 45-1 | 45-3 | 45-5 | 45-7 | 45-9 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 |
| 575.00 | 49-4 | 49-6 | 49-8 | 49-11 | 50-1 | 50-3 | 50-5 | 50-8 | 50-10 | 50-11 |
| 600.00 | 53-9 | 54-0 | 54-2 | 54-4 | 54-7 | 54-9 | 55-0 | 55-2 | 55-5 | 55-6 |
| 625.00 | 58-5 | 58-7 | 58-10 | 59-1 | 59-3 | 59-6 | 59-8 | 59-11 | 60-2 | 60-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 1.05 | 1399 | 0.98 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 0.49 | 1996 | 0.45 | 2159 |
| 30 | 0 | 0 | 0 | 0.785 | 0.62 | 1572 | 0.56 | 1741 |
| 40 | 0 | 0 | 0 | 0.785 | 0.78 | 1259 | 0.7 | 1402 |
| 50 | 0 | 0 | 0 | 0.785 | 0.94 | 1043 | 0.85 | 1152 |
| 60 | 0 | 0 | 0 | 0.785 | 1.1 | 894 | 1.01 | 975 |
| 70 | 0 | 0 | 0 | 0.785 | 1.25 | 788 | 1.16 | 848 |
| 80 | 0 | 0 | 0 | 0.785 | 1.39 | 709 | 1.3 | 756 |
| 90 | 0 | 0 | 0 | 0.785 | 1.52 | 648 | 1.43 | 686 |
| 100 | 0 | 0 | 0 | 0.785 | 1.59 | 616 | 1.56 | 631 |
| 110 | 0 | 0 | 0 | 0.785 | 1.66 | 591 | 1.66 | 591 |
| 120 | 0 | 0 | 0 | 0.785 | 1.73 | 568 | 1.73 | 568 |
| 130 | 0 | 0 | 0 | 0.785 | 1.79 | 547 | 1.79 | 547 |
| 167 | 0 | 0 | 0 | 0.785 | 2.02 | 486 | 2.02 | 486 |
| 212 | 0 | 0 | 0 | 0.785 | 2.28 | 431 | 2.28 | 431 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 4.05 | 1458 | 3.94 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 3.28 | 1198 | 3.14 | 1250 |
| 30 | 0 | 0 | 0 | 0.785 | 3.5 | 1124 | 3.36 | 1169 |
| 40 | 0 | 0 | 0 | 0.785 | 3.7 | 1061 | 3.57 | 1101 |
| 50 | 0 | 0 | 0 | 0.785 | 3.9 | 1007 | 3.77 | 1042 |
| 60 | 0 | 0 | 0 | 0.785 | 4.1 | 960 | 3.97 | 991 |
| 70 | 0 | 0 | 0 | 0.785 | 4.28 | 918 | 4.15 | 947 |
| 80 | 0 | 0 | 0 | 0.785 | 4.46 | 881 | 4.33 | 907 |
| 90 | 0 | 0 | 0 | 0.785 | 4.64 | 849 | 4.51 | 872 |
| 100 | 0 | 0 | 0 | 0.785 | 4.8 | 819 | 4.68 | 841 |
| 110 | 0 | 0 | 0 | 0.785 | 4.93 | 798 | 4.84 | 812 |
| 120 | 0 | 0 | 0 | 0.785 | 5.03 | 783 | 5 | 786 |
| 130 | 0 | 0 | 0 | 0.785 | 5.13 | 768 | 5.13 | 768 |
| 167 | 0 | 0 | 0 | 0.785 | 5.47 | 720 | 5.47 | 720 |
| 212 | 0 | 0 | 0 | 0.785 | 5.86 | 672 | 5.86 | 672 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 9 | 1479 | 8.87 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 8.21 | 1078 | 8.07 | 1097 |
| 30 | 0 | 0 | 0 | 0.785 | 8.43 | 1051 | 8.29 | 1069 |
| 40 | 0 | 0 | 0 | 0.785 | 8.64 | 1026 | 8.5 | 1043 |
| 50 | 0 | 0 | 0 | 0.785 | 8.85 | 1002 | 8.7 | 1018 |
| 60 | 0 | 0 | 0 | 0.785 | 9.05 | 980 | 8.9 | 995 |
| 70 | 0 | 0 | 0 | 0.785 | 9.25 | 959 | 9.1 | 974 |
| 80 | 0 | 0 | 0 | 0.785 | 9.44 | 939 | 9.3 | 954 |
| 90 | 0 | 0 | 0 | 0.785 | 9.63 | 921 | 9.49 | 935 |
| 100 | 0 | 0 | 0 | 0.785 | 9.82 | 903 | 9.67 | 917 |
| 110 | 0 | 0 | 0 | 0.785 | 10 | 887 | 9.86 | 900 |
| 120 | 0 | 0 | 0 | 0.785 | 10.12 | 877 | 10.04 | 884 |
| 130 | 0 | 0 | 0 | 0.785 | 10.23 | 867 | 10.22 | 868 |
| 167 | 0 | 0 | 0 | 0.785 | 10.64 | 834 | 10.64 | 834 |
| 212 | 0 | 0 | 0 | 0.785 | 11.12 | 799 | 11.12 | 799 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 15.95 | 1488 | 15.81 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 15.16 | 1042 | 15.01 | 1052 |
| 30 | 0 | 0 | 0 | 0.785 | 15.37 | 1027 | 15.23 | 1037 |
| 40 | 0 | 0 | 0 | 0.785 | 15.58 | 1014 | 15.44 | 1023 |
| 50 | 0 | 0 | 0 | 0.785 | 15.79 | 1000 | 15.64 | 1010 |
| 60 | 0 | 0 | 0 | 0.785 | 16 | 988 | 15.85 | 997 |
| 70 | 0 | 0 | 0 | 0.785 | 16.2 | 975 | 16.05 | 985 |
| 80 | 0 | 0 | 0 | 0.785 | 16.4 | 964 | 16.25 | 973 |
| 90 | 0 | 0 | 0 | 0.785 | 16.6 | 952 | 16.45 | 961 |
| 100 | 0 | 0 | 0 | 0.785 | 16.8 | 941 | 16.64 | 950 |
| 110 | 0 | 0 | 0 | 0.785 | 16.99 | 931 | 16.84 | 939 |
| 120 | 0 | 0 | 0 | 0.785 | 17.14 | 923 | 17.03 | 929 |
| 130 | 0 | 0 | 0 | 0.785 | 17.26 | 916 | 17.22 | 919 |
| 167 | 0 | 0 | 0 | 0.785 | 17.71 | 893 | 17.71 | 893 |
| 212 | 0 | 0 | 0 | 0.785 | 18.23 | 868 | 18.23 | 868 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 24.93 | 1492 | 24.8 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 24.14 | 1025 | 24 | 1032 |
| 30 | 0 | 0 | 0 | 0.785 | 24.36 | 1017 | 24.21 | 1023 |
| 40 | 0 | 0 | 0 | 0.785 | 24.57 | 1008 | 24.42 | 1014 |
| 50 | 0 | 0 | 0 | 0.785 | 24.78 | 1000 | 24.63 | 1006 |
| 60 | 0 | 0 | 0 | 0.785 | 24.98 | 992 | 24.83 | 998 |
| 70 | 0 | 0 | 0 | 0.785 | 25.19 | 984 | 25.04 | 990 |
| 80 | 0 | 0 | 0 | 0.785 | 25.39 | 976 | 25.24 | 982 |
| 90 | 0 | 0 | 0 | 0.785 | 25.6 | 968 | 25.44 | 974 |
| 100 | 0 | 0 | 0 | 0.785 | 25.8 | 961 | 25.64 | 967 |
| 110 | 0 | 0 | 0 | 0.785 | 26 | 954 | 25.84 | 960 |
| 120 | 0 | 0 | 0 | 0.785 | 26.17 | 948 | 26.04 | 952 |
| 130 | 0 | 0 | 0 | 0.785 | 26.3 | 943 | 26.23 | 945 |
| 167 | 0 | 0 | 0 | 0.785 | 26.76 | 927 | 26.76 | 927 |
| 212 | 0 | 0 | 0 | 0.785 | 27.31 | 909 | 27.31 | 909 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 |
| 125.00 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 |
| 150.00 | 1-0 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-9 |
| 175.00 | 1-5 | 1-9 | 2-2 | 2-7 | 3-1 | 3-7 | 4-0 | 4-5 | 4-9 | 5-1 |
| 200.00 | 1-10 | 2-3 | 2-10 | 3-5 | 4-0 | 4-8 | 5-2 | 5-9 | 6-3 | 6-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 0-9 | 1-0 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-7 |
| 150.00 | 1-1 | 1-5 | 1-9 | 2-1 | 2-6 | 2-10 | 3-1 | 3-5 | 3-7 | 3-9 |
| 175.00 | 1-6 | 1-11 | 2-5 | 2-11 | 3-4 | 3-10 | 4-3 | 4-8 | 4-11 | 5-1 |
| 200.00 | 2-0 | 2-6 | 3-1 | 3-9 | 4-5 | 5-0 | 5-7 | 6-1 | 6-5 | 6-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.132

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 150.00 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 |
| 175.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 |
| 200.00 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 |
| 225.00 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 |
| 250.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-1 | 7-4 | 7-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-9 |
| 200.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 4-11 |
| 225.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 |
| 250.00 | 5-2 | 5-6 | 5-9 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 |
| 175.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 200.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 225.00 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-7 |
| 250.00 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 |
| 275.00 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 |
| 300.00 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-10 |
| 325.00 | 9-6 | 9-9 | 10-0 | 10-3 | 10-5 | 10-8 | 10-11 | 11-2 | 11-4 | 11-7 |
| 350.00 | 11-0 | 11-3 | 11-7 | 11-10 | 12-1 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 |
| 375.00 | 12-7 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 | 14-6 | 14-10 | 15-2 | 15-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 |
| 175.00 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 |
| 200.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 225.00 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 |
| 250.00 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 |
| 275.00 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 |
| 300.00 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 |
| 325.00 | 9-8 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 |
| 350.00 | 11-2 | 11-6 | 11-9 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 |
| 375.00 | 12-10 | 13-2 | 13-6 | 13-10 | 14-2 | 14-5 | 14-9 | 15-1 | 15-4 | 15-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 |
| 225.00 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 |
| 250.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 275.00 | 7-1 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 |
| 300.00 | 8-5 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-6 |
| 325.00 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 |
| 350.00 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 |
| 375.00 | 13-2 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-10 |
| 400.00 | 15-0 | 15-3 | 15-5 | 15-8 | 15-10 | 16-1 | 16-3 | 16-5 | 16-8 | 16-10 |
| 425.00 | 16-11 | 17-2 | 17-5 | 17-8 | 17-11 | 18-1 | 18-4 | 18-7 | 18-10 | 19-0 |
| 450.00 | 19-0 | 19-3 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-4 |
| 475.00 | 21-2 | 21-6 | 21-9 | 22-1 | 22-4 | 22-8 | 22-11 | 23-3 | 23-6 | 23-9 |
| 500.00 | 23-6 | 23-10 | 24-2 | 24-6 | 24-9 | 25-1 | 25-5 | 25-9 | 26-0 | 26-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 |
| 225.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 |
| 250.00 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 275.00 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 300.00 | 8-6 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-7 |
| 325.00 | 10-0 | 10-2 | 10-3 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 |
| 350.00 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-8 | 12-10 | 13-0 |
| 375.00 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 |
| 400.00 | 15-2 | 15-4 | 15-7 | 15-10 | 16-0 | 16-2 | 16-5 | 16-7 | 16-10 | 17-0 |
| 425.00 | 17-1 | 17-4 | 17-7 | 17-10 | 18-1 | 18-4 | 18-6 | 18-9 | 19-0 | 19-2 |
| 450.00 | 19-2 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 |
| 475.00 | 21-5 | 21-8 | 22-0 | 22-3 | 22-7 | 22-10 | 23-2 | 23-5 | 23-8 | 24-0 |
| 500.00 | 23-9 | 24-1 | 24-5 | 24-8 | 25-0 | 25-4 | 25-8 | 26-0 | 26-3 | 26-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 |
| 275.00 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-10 |
| 300.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-3 |
| 325.00 | 10-1 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 |
| 350.00 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-8 |
| 375.00 | 13-6 | 13-7 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-5 | 14-6 |
| 400.00 | 15-4 | 15-6 | 15-7 | 15-9 | 15-10 | 16-0 | 16-2 | 16-3 | 16-5 | 16-6 |
| 425.00 | 17-4 | 17-6 | 17-8 | 17-9 | 17-11 | 18-1 | 18-3 | 18-4 | 18-6 | 18-8 |
| 450.00 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 |
| 475.00 | 21-8 | 21-10 | 22-0 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-2 | 23-4 |
| 500.00 | 24-0 | 24-3 | 24-5 | 24-8 | 24-10 | 25-0 | 25-3 | 25-5 | 25-8 | 25-10 |
| 525.00 | 26-6 | 26-8 | 26-11 | 27-2 | 27-5 | 27-7 | 27-10 | 28-1 | 28-3 | 28-6 |
| 550.00 | 29-1 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 | 31-1 | 31-3 |
| 575.00 | 31-9 | 32-1 | 32-4 | 32-7 | 32-10 | 33-2 | 33-5 | 33-8 | 33-11 | 34-3 |
| 600.00 | 34-7 | 34-11 | 35-3 | 35-6 | 35-10 | 36-1 | 36-5 | 36-8 | 37-0 | 37-3 |
| 625.00 | 37-7 | 37-11 | 38-3 | 38-7 | 38-10 | 39-2 | 39-6 | 39-10 | 40-2 | 40-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 |
| 275.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 |
| 300.00 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-4 |
| 325.00 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 |
| 350.00 | 11-10 | 11-11 | 12-0 | 12-1 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-9 |
| 375.00 | 13-7 | 13-8 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 |
| 400.00 | 15-5 | 15-7 | 15-8 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 |
| 425.00 | 17-5 | 17-7 | 17-9 | 17-11 | 18-0 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 |
| 450.00 | 19-7 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 |
| 475.00 | 21-9 | 22-0 | 22-2 | 22-4 | 22-6 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 |
| 500.00 | 24-2 | 24-4 | 24-7 | 24-9 | 25-0 | 25-2 | 25-5 | 25-7 | 25-10 | 26-0 |
| 525.00 | 26-8 | 26-10 | 27-1 | 27-4 | 27-7 | 27-9 | 28-0 | 28-3 | 28-5 | 28-8 |
| 550.00 | 29-3 | 29-6 | 29-9 | 30-0 | 30-3 | 30-6 | 30-9 | 31-0 | 31-3 | 31-6 |
| 575.00 | 32-0 | 32-3 | 32-6 | 32-10 | 33-1 | 33-4 | 33-7 | 33-11 | 34-2 | 34-5 |
| 600.00 | 34-10 | 35-1 | 35-5 | 35-9 | 36-0 | 36-4 | 36-7 | 36-11 | 37-2 | 37-6 |
| 625.00 | 37-10 | 38-2 | 38-5 | 38-9 | 39-1 | 39-5 | 39-9 | 40-1 | 40-5 | 40-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 0.85 | 1744 | 0.74 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 0.35 | 2783 | 0.32 | 3081 |
| 30 | 0 | 0 | 0 | 0.785 | 0.44 | 2233 | 0.38 | 2582 |
| 40 | 0 | 0 | 0 | 0.785 | 0.56 | 1761 | 0.46 | 2113 |
| 50 | 0 | 0 | 0 | 0.785 | 0.7 | 1395 | 0.58 | 1700 |
| 60 | 0 | 0 | 0 | 0.785 | 0.86 | 1136 | 0.72 | 1370 |
| 70 | 0 | 0 | 0 | 0.785 | 1.02 | 958 | 0.87 | 1128 |
| 80 | 0 | 0 | 0 | 0.785 | 1.18 | 834 | 1.03 | 957 |
| 90 | 0 | 0 | 0 | 0.785 | 1.32 | 744 | 1.17 | 836 |
| 100 | 0 | 0 | 0 | 0.785 | 1.39 | 706 | 1.32 | 746 |
| 110 | 0 | 0 | 0 | 0.785 | 1.46 | 672 | 1.45 | 678 |
| 120 | 0 | 0 | 0 | 0.785 | 1.54 | 639 | 1.54 | 639 |
| 130 | 0 | 0 | 0 | 0.785 | 1.61 | 612 | 1.61 | 612 |
| 167 | 0 | 0 | 0 | 0.785 | 1.85 | 531 | 1.85 | 531 |
| 212 | 0 | 0 | 0 | 0.785 | 2.12 | 464 | 2.12 | 464 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 3.16 | 1868 | 2.95 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 2.19 | 1792 | 1.96 | 2005 |
| 30 | 0 | 0 | 0 | 0.785 | 2.45 | 1605 | 2.2 | 1785 |
| 40 | 0 | 0 | 0 | 0.785 | 2.7 | 1456 | 2.44 | 1607 |
| 50 | 0 | 0 | 0 | 0.785 | 2.94 | 1337 | 2.68 | 1463 |
| 60 | 0 | 0 | 0 | 0.785 | 3.17 | 1240 | 2.92 | 1346 |
| 70 | 0 | 0 | 0 | 0.785 | 3.39 | 1159 | 3.14 | 1249 |
| 80 | 0 | 0 | 0 | 0.785 | 3.6 | 1091 | 3.36 | 1169 |
| 90 | 0 | 0 | 0 | 0.785 | 3.81 | 1032 | 3.57 | 1100 |
| 100 | 0 | 0 | 0 | 0.785 | 4 | 982 | 3.77 | 1041 |
| 110 | 0 | 0 | 0 | 0.785 | 4.15 | 946 | 3.97 | 991 |
| 120 | 0 | 0 | 0 | 0.785 | 4.26 | 923 | 4.16 | 946 |
| 130 | 0 | 0 | 0 | 0.785 | 4.37 | 901 | 4.34 | 907 |
| 167 | 0 | 0 | 0 | 0.785 | 4.75 | 828 | 4.75 | 828 |
| 212 | 0 | 0 | 0 | 0.785 | 5.19 | 759 | 5.19 | 759 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 6.9 | 1927 | 6.64 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 5.84 | 1516 | 5.53 | 1599 |
| 30 | 0 | 0 | 0 | 0.785 | 6.11 | 1447 | 5.81 | 1522 |
| 40 | 0 | 0 | 0 | 0.785 | 6.39 | 1385 | 6.09 | 1454 |
| 50 | 0 | 0 | 0 | 0.785 | 6.65 | 1331 | 6.35 | 1393 |
| 60 | 0 | 0 | 0 | 0.785 | 6.9 | 1282 | 6.61 | 1339 |
| 70 | 0 | 0 | 0 | 0.785 | 7.15 | 1238 | 6.86 | 1290 |
| 80 | 0 | 0 | 0 | 0.785 | 7.39 | 1198 | 7.1 | 1246 |
| 90 | 0 | 0 | 0 | 0.785 | 7.63 | 1161 | 7.34 | 1206 |
| 100 | 0 | 0 | 0 | 0.785 | 7.86 | 1127 | 7.58 | 1169 |
| 110 | 0 | 0 | 0 | 0.785 | 8.08 | 1096 | 7.8 | 1135 |
| 120 | 0 | 0 | 0 | 0.785 | 8.25 | 1073 | 8.02 | 1104 |
| 130 | 0 | 0 | 0 | 0.785 | 8.38 | 1057 | 8.24 | 1075 |
| 167 | 0 | 0 | 0 | 0.785 | 8.86 | 1000 | 8.86 | 1000 |
| 212 | 0 | 0 | 0 | 0.785 | 9.41 | 943 | 9.41 | 943 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 12.1 | 1955 | 11.83 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 11.01 | 1430 | 10.7 | 1472 |
| 30 | 0 | 0 | 0 | 0.785 | 11.3 | 1394 | 10.98 | 1434 |
| 40 | 0 | 0 | 0 | 0.785 | 11.57 | 1361 | 11.25 | 1399 |
| 50 | 0 | 0 | 0 | 0.785 | 11.84 | 1330 | 11.53 | 1367 |
| 60 | 0 | 0 | 0 | 0.785 | 12.11 | 1301 | 11.79 | 1336 |
| 70 | 0 | 0 | 0 | 0.785 | 12.37 | 1274 | 12.05 | 1307 |
| 80 | 0 | 0 | 0 | 0.785 | 12.62 | 1249 | 12.31 | 1280 |
| 90 | 0 | 0 | 0 | 0.785 | 12.87 | 1224 | 12.56 | 1254 |
| 100 | 0 | 0 | 0 | 0.785 | 13.12 | 1202 | 12.81 | 1230 |
| 110 | 0 | 0 | 0 | 0.785 | 13.36 | 1180 | 13.06 | 1207 |
| 120 | 0 | 0 | 0 | 0.785 | 13.6 | 1159 | 13.3 | 1186 |
| 130 | 0 | 0 | 0 | 0.785 | 13.76 | 1146 | 13.54 | 1165 |
| 167 | 0 | 0 | 0 | 0.785 | 14.3 | 1104 | 14.3 | 1104 |
| 212 | 0 | 0 | 0 | 0.785 | 14.92 | 1058 | 14.92 | 1058 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 18.81 | 1970 | 18.52 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 17.7 | 1393 | 17.38 | 1418 |
| 30 | 0 | 0 | 0 | 0.785 | 17.98 | 1371 | 17.66 | 1396 |
| 40 | 0 | 0 | 0 | 0.785 | 18.26 | 1350 | 17.94 | 1375 |
| 50 | 0 | 0 | 0 | 0.785 | 18.54 | 1331 | 18.21 | 1354 |
| 60 | 0 | 0 | 0 | 0.785 | 18.81 | 1312 | 18.48 | 1335 |
| 70 | 0 | 0 | 0 | 0.785 | 19.07 | 1294 | 18.75 | 1316 |
| 80 | 0 | 0 | 0 | 0.785 | 19.34 | 1276 | 19.01 | 1298 |
| 90 | 0 | 0 | 0 | 0.785 | 19.6 | 1259 | 19.27 | 1280 |
| 100 | 0 | 0 | 0 | 0.785 | 19.86 | 1243 | 19.53 | 1264 |
| 110 | 0 | 0 | 0 | 0.785 | 20.11 | 1228 | 19.79 | 1248 |
| 120 | 0 | 0 | 0 | 0.785 | 20.36 | 1213 | 20.04 | 1232 |
| 130 | 0 | 0 | 0 | 0.785 | 20.57 | 1201 | 20.29 | 1217 |
| 167 | 0 | 0 | 0 | 0.785 | 21.15 | 1168 | 21.15 | 1168 |
| 212 | 0 | 0 | 0 | 0.785 | 21.82 | 1133 | 21.82 | 1133 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 |
| 125.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 |
| 150.00 | 0-9 | 0-10 | 1-1 | 1-4 | 1-7 | 2-0 | 2-4 | 2-8 | 3-0 | 3-3 |
| 175.00 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-8 | 3-2 | 3-7 | 4-0 | 4-5 |
| 200.00 | 1-3 | 1-6 | 1-10 | 2-4 | 2-10 | 3-6 | 4-1 | 4-8 | 5-3 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-2 | 2-3 |
| 150.00 | 0-10 | 1-0 | 1-3 | 1-7 | 1-11 | 2-4 | 2-8 | 3-0 | 3-2 | 3-3 |
| 175.00 | 1-1 | 1-4 | 1-8 | 2-2 | 2-8 | 3-2 | 3-7 | 4-1 | 4-3 | 4-6 |
| 200.00 | 1-5 | 1-9 | 2-3 | 2-10 | 3-5 | 4-1 | 4-9 | 5-3 | 5-7 | 5-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 |
| 175.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 |
| 200.00 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 |
| 225.00 | 2-6 | 2-9 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 |
| 250.00 | 3-1 | 3-5 | 3-10 | 4-2 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 150.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 |
| 175.00 | 1-8 | 1-10 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 |
| 200.00 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 |
| 225.00 | 2-9 | 3-1 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 |
| 250.00 | 3-5 | 3-10 | 4-3 | 4-7 | 4-11 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.141

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 |
| 225.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 |
| 250.00 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 |
| 275.00 | 4-8 | 4-11 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-7 |
| 300.00 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 |
| 325.00 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 | 8-1 | 8-4 | 8-7 | 8-11 | 9-2 |
| 350.00 | 7-6 | 7-11 | 8-3 | 8-8 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-7 |
| 375.00 | 8-8 | 9-1 | 9-6 | 9-11 | 10-4 | 10-9 | 11-1 | 11-6 | 11-10 | 12-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 |
| 175.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 200.00 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 |
| 225.00 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 |
| 250.00 | 4-1 | 4-3 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 |
| 275.00 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-9 |
| 300.00 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 |
| 325.00 | 6-10 | 7-2 | 7-6 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 |
| 350.00 | 7-11 | 8-4 | 8-8 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-8 | 11-0 |
| 375.00 | 9-1 | 9-7 | 10-0 | 10-5 | 10-9 | 11-2 | 11-7 | 11-11 | 12-3 | 12-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.142

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 250.00 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 |
| 275.00 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 |
| 300.00 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 |
| 325.00 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 |
| 350.00 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 |
| 375.00 | 9-5 | 9-8 | 9-11 | 10-2 | 10-4 | 10-7 | 10-10 | 11-0 | 11-3 | 11-6 |
| 400.00 | 10-8 | 11-0 | 11-3 | 11-6 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 |
| 425.00 | 12-1 | 12-5 | 12-8 | 13-0 | 13-4 | 13-7 | 13-11 | 14-2 | 14-6 | 14-9 |
| 450.00 | 13-6 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-11 | 16-3 | 16-6 |
| 475.00 | 15-1 | 15-6 | 15-11 | 16-3 | 16-8 | 17-0 | 17-4 | 17-9 | 18-1 | 18-5 |
| 500.00 | 16-9 | 17-2 | 17-7 | 18-0 | 18-5 | 18-10 | 19-3 | 19-8 | 20-0 | 20-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 225.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 250.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-3 |
| 275.00 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-4 |
| 300.00 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-5 | 7-6 |
| 325.00 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 |
| 350.00 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-1 | 10-3 |
| 375.00 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 |
| 400.00 | 11-0 | 11-4 | 11-7 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 |
| 425.00 | 12-5 | 12-9 | 13-1 | 13-4 | 13-8 | 14-0 | 14-3 | 14-6 | 14-10 | 15-1 |
| 450.00 | 13-11 | 14-4 | 14-8 | 15-0 | 15-4 | 15-8 | 16-0 | 16-4 | 16-7 | 16-11 |
| 475.00 | 15-6 | 15-11 | 16-4 | 16-8 | 17-1 | 17-5 | 17-10 | 18-2 | 18-6 | 18-10 |
| 500.00 | 17-3 | 17-8 | 18-1 | 18-6 | 18-11 | 19-4 | 19-9 | 20-2 | 20-6 | 20-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 |
| 275.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 300.00 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 325.00 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 |
| 350.00 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 |
| 375.00 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-10 | 11-0 | 11-1 |
| 400.00 | 11-1 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 |
| 425.00 | 12-7 | 12-9 | 12-11 | 13-2 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-3 |
| 450.00 | 14-1 | 14-4 | 14-6 | 14-9 | 15-0 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 |
| 475.00 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 | 17-5 | 17-7 | 17-10 |
| 500.00 | 17-5 | 17-8 | 17-11 | 18-3 | 18-6 | 18-9 | 19-0 | 19-3 | 19-6 | 19-9 |
| 525.00 | 19-2 | 19-6 | 19-9 | 20-1 | 20-5 | 20-8 | 21-0 | 21-3 | 21-6 | 21-10 |
| 550.00 | 21-0 | 21-5 | 21-9 | 22-1 | 22-4 | 22-8 | 23-0 | 23-4 | 23-8 | 23-11 |
| 575.00 | 23-0 | 23-4 | 23-9 | 24-1 | 24-5 | 24-10 | 25-2 | 25-6 | 25-10 | 26-2 |
| 600.00 | 25-1 | 25-5 | 25-10 | 26-3 | 26-8 | 27-0 | 27-5 | 27-9 | 28-2 | 28-6 |
| 625.00 | 27-2 | 27-7 | 28-1 | 28-6 | 28-11 | 29-4 | 29-9 | 30-2 | 30-7 | 30-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 |
| 275.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 300.00 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 |
| 325.00 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-5 | 8-6 |
| 350.00 | 8-8 | 8-10 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 |
| 375.00 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-10 | 11-0 | 11-2 | 11-4 |
| 400.00 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 |
| 425.00 | 12-9 | 13-0 | 13-2 | 13-5 | 13-7 | 13-9 | 14-0 | 14-2 | 14-4 | 14-6 |
| 450.00 | 14-4 | 14-7 | 14-9 | 15-0 | 15-3 | 15-5 | 15-8 | 15-10 | 16-1 | 16-3 |
| 475.00 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 | 17-3 | 17-5 | 17-8 | 17-11 | 18-2 |
| 500.00 | 17-8 | 18-0 | 18-3 | 18-6 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-1 |
| 525.00 | 19-6 | 19-10 | 20-2 | 20-5 | 20-9 | 21-0 | 21-4 | 21-7 | 21-11 | 22-2 |
| 550.00 | 21-5 | 21-9 | 22-1 | 22-5 | 22-9 | 23-1 | 23-5 | 23-9 | 24-0 | 24-4 |
| 575.00 | 23-5 | 23-10 | 24-2 | 24-6 | 24-11 | 25-3 | 25-7 | 25-11 | 26-3 | 26-7 |
| 600.00 | 25-6 | 25-11 | 26-4 | 26-9 | 27-1 | 27-6 | 27-10 | 28-3 | 28-7 | 29-0 |
| 625.00 | 27-8 | 28-2 | 28-7 | 29-0 | 29-5 | 29-10 | 30-3 | 30-8 | 31-1 | 31-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 0.72 | 2051 | 0.59 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 0.29 | 3343 | 0.26 | 3777 |
| 30 | 0 | 0 | 0 | 0.785 | 0.36 | 2750 | 0.3 | 3264 |
| 40 | 0 | 0 | 0 | 0.785 | 0.45 | 2203 | 0.36 | 2758 |
| 50 | 0 | 0 | 0 | 0.785 | 0.57 | 1737 | 0.43 | 2273 |
| 60 | 0 | 0 | 0 | 0.785 | 0.71 | 1377 | 0.53 | 1834 |
| 70 | 0 | 0 | 0 | 0.785 | 0.87 | 1124 | 0.67 | 1472 |
| 80 | 0 | 0 | 0 | 0.785 | 1.03 | 950 | 0.82 | 1201 |
| 90 | 0 | 0 | 0 | 0.785 | 1.17 | 839 | 0.97 | 1008 |
| 100 | 0 | 0 | 0 | 0.785 | 1.24 | 790 | 1.13 | 872 |
| 110 | 0 | 0 | 0 | 0.785 | 1.31 | 747 | 1.27 | 773 |
| 120 | 0 | 0 | 0 | 0.785 | 1.39 | 704 | 1.39 | 704 |
| 130 | 0 | 0 | 0 | 0.785 | 1.47 | 670 | 1.47 | 670 |
| 167 | 0 | 0 | 0 | 0.785 | 1.72 | 572 | 1.72 | 572 |
| 212 | 0 | 0 | 0 | 0.785 | 2 | 491 | 2 | 491 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 2.65 | 2228 | 2.36 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 1.61 | 2443 | 1.36 | 2894 |
| 30 | 0 | 0 | 0 | 0.785 | 1.85 | 2121 | 1.55 | 2530 |
| 40 | 0 | 0 | 0 | 0.785 | 2.11 | 1864 | 1.77 | 2217 |
| 50 | 0 | 0 | 0 | 0.785 | 2.36 | 1661 | 2.01 | 1956 |
| 60 | 0 | 0 | 0 | 0.785 | 2.62 | 1502 | 2.25 | 1744 |
| 70 | 0 | 0 | 0 | 0.785 | 2.86 | 1374 | 2.5 | 1574 |
| 80 | 0 | 0 | 0 | 0.785 | 3.09 | 1270 | 2.74 | 1436 |
| 90 | 0 | 0 | 0 | 0.785 | 3.32 | 1184 | 2.97 | 1323 |
| 100 | 0 | 0 | 0 | 0.785 | 3.53 | 1112 | 3.19 | 1230 |
| 110 | 0 | 0 | 0 | 0.785 | 3.69 | 1065 | 3.41 | 1152 |
| 120 | 0 | 0 | 0 | 0.785 | 3.8 | 1034 | 3.62 | 1086 |
| 130 | 0 | 0 | 0 | 0.785 | 3.91 | 1005 | 3.82 | 1029 |
| 167 | 0 | 0 | 0 | 0.785 | 4.32 | 910 | 4.32 | 910 |
| 212 | 0 | 0 | 0 | 0.785 | 4.78 | 823 | 4.78 | 823 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 5.7 | 2332 | 5.31 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 4.41 | 2006 | 3.95 | 2239 |
| 30 | 0 | 0 | 0 | 0.785 | 4.73 | 1869 | 4.26 | 2073 |
| 40 | 0 | 0 | 0 | 0.785 | 5.04 | 1753 | 4.58 | 1932 |
| 50 | 0 | 0 | 0 | 0.785 | 5.35 | 1653 | 4.88 | 1811 |
| 60 | 0 | 0 | 0 | 0.785 | 5.64 | 1567 | 5.18 | 1706 |
| 70 | 0 | 0 | 0 | 0.785 | 5.93 | 1492 | 5.47 | 1615 |
| 80 | 0 | 0 | 0 | 0.785 | 6.21 | 1426 | 5.76 | 1536 |
| 90 | 0 | 0 | 0 | 0.785 | 6.47 | 1367 | 6.03 | 1466 |
| 100 | 0 | 0 | 0 | 0.785 | 6.73 | 1314 | 6.3 | 1404 |
| 110 | 0 | 0 | 0 | 0.785 | 6.99 | 1267 | 6.56 | 1348 |
| 120 | 0 | 0 | 0 | 0.785 | 7.19 | 1230 | 6.82 | 1299 |
| 130 | 0 | 0 | 0 | 0.785 | 7.33 | 1207 | 7.06 | 1253 |
| 167 | 0 | 0 | 0 | 0.785 | 7.85 | 1128 | 7.85 | 1128 |
| 212 | 0 | 0 | 0 | 0.785 | 8.44 | 1050 | 8.44 | 1050 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 9.89 | 2390 | 9.45 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 8.51 | 1848 | 7.99 | 1969 |
| 30 | 0 | 0 | 0 | 0.785 | 8.85 | 1777 | 8.33 | 1888 |
| 40 | 0 | 0 | 0 | 0.785 | 9.18 | 1713 | 8.66 | 1815 |
| 50 | 0 | 0 | 0 | 0.785 | 9.51 | 1655 | 8.99 | 1749 |
| 60 | 0 | 0 | 0 | 0.785 | 9.82 | 1602 | 9.31 | 1690 |
| 70 | 0 | 0 | 0 | 0.785 | 10.13 | 1554 | 9.63 | 1635 |
| 80 | 0 | 0 | 0 | 0.785 | 10.43 | 1509 | 9.93 | 1585 |
| 90 | 0 | 0 | 0 | 0.785 | 10.73 | 1468 | 10.23 | 1538 |
| 100 | 0 | 0 | 0 | 0.785 | 11.02 | 1430 | 10.53 | 1496 |
| 110 | 0 | 0 | 0 | 0.785 | 11.3 | 1394 | 10.81 | 1456 |
| 120 | 0 | 0 | 0 | 0.785 | 11.57 | 1361 | 11.09 | 1420 |
| 130 | 0 | 0 | 0 | 0.785 | 11.79 | 1337 | 11.37 | 1385 |
| 167 | 0 | 0 | 0 | 0.785 | 12.37 | 1274 | 12.35 | 1276 |
| 212 | 0 | 0 | 0 | 0.785 | 13.07 | 1206 | 13.07 | 1206 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 15.26 | 2423 | 14.79 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 13.84 | 1778 | 13.29 | 1851 |
| 30 | 0 | 0 | 0 | 0.785 | 14.18 | 1735 | 13.64 | 1804 |
| 40 | 0 | 0 | 0 | 0.785 | 14.52 | 1695 | 13.98 | 1761 |
| 50 | 0 | 0 | 0 | 0.785 | 14.85 | 1657 | 14.31 | 1720 |
| 60 | 0 | 0 | 0 | 0.785 | 15.18 | 1622 | 14.64 | 1681 |
| 70 | 0 | 0 | 0 | 0.785 | 15.5 | 1588 | 14.97 | 1645 |
| 80 | 0 | 0 | 0 | 0.785 | 15.82 | 1557 | 15.29 | 1611 |
| 90 | 0 | 0 | 0 | 0.785 | 16.13 | 1527 | 15.6 | 1579 |
| 100 | 0 | 0 | 0 | 0.785 | 16.44 | 1499 | 15.91 | 1548 |
| 110 | 0 | 0 | 0 | 0.785 | 16.74 | 1472 | 16.21 | 1519 |
| 120 | 0 | 0 | 0 | 0.785 | 17.03 | 1447 | 16.51 | 1492 |
| 130 | 0 | 0 | 0 | 0.785 | 17.32 | 1423 | 16.81 | 1466 |
| 167 | 0 | 0 | 0 | 0.785 | 17.98 | 1372 | 17.86 | 1380 |
| 212 | 0 | 0 | 0 | 0.785 | 18.75 | 1316 | 18.75 | 1316 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 |
| 150.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-6 | 3-0 | 3-5 | 3-11 |
| 200.00 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-8 | 3-3 | 3-11 | 4-6 | 5-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 1-11 | 2-1 |
| 150.00 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-4 | 2-8 | 2-10 | 3-0 |
| 175.00 | 0-11 | 1-1 | 1-4 | 1-9 | 2-2 | 2-8 | 3-2 | 3-7 | 3-10 | 4-0 |
| 200.00 | 1-2 | 1-5 | 1-9 | 2-3 | 2-10 | 3-6 | 4-2 | 4-8 | 5-0 | 5-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.148

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 200.00 | 1-4 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 |
| 225.00 | 1-9 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 |
| 250.00 | 2-1 | 2-5 | 2-9 | 3-2 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-5 |
| 150.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 |
| 175.00 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 200.00 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-6 | 3-8 |
| 225.00 | 2-0 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-6 | 4-8 |
| 250.00 | 2-6 | 2-11 | 3-4 | 3-8 | 4-1 | 4-6 | 4-10 | 5-2 | 5-6 | 5-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 175.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 |
| 200.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 |
| 225.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 |
| 250.00 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 |
| 275.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 |
| 300.00 | 3-11 | 4-3 | 4-7 | 4-11 | 5-2 | 5-6 | 5-9 | 6-0 | 6-4 | 6-7 |
| 325.00 | 4-8 | 5-0 | 5-4 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-8 |
| 350.00 | 5-4 | 5-10 | 6-3 | 6-8 | 7-1 | 7-5 | 7-10 | 8-3 | 8-7 | 8-11 |
| 375.00 | 6-2 | 6-8 | 7-2 | 7-8 | 8-1 | 8-7 | 9-0 | 9-5 | 9-10 | 10-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 |
| 175.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 |
| 200.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 |
| 225.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 |
| 250.00 | 3-1 | 3-3 | 3-6 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 |
| 275.00 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 |
| 300.00 | 4-5 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-6 | 6-9 | 7-0 |
| 325.00 | 5-2 | 5-7 | 5-11 | 6-3 | 6-7 | 7-0 | 7-3 | 7-7 | 7-11 | 8-2 |
| 350.00 | 6-0 | 6-5 | 6-10 | 7-3 | 7-8 | 8-1 | 8-5 | 8-10 | 9-2 | 9-6 |
| 375.00 | 6-11 | 7-5 | 7-11 | 8-4 | 8-10 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 |
| 225.00 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 250.00 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 |
| 275.00 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 5-0 | 5-1 |
| 300.00 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 325.00 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 |
| 350.00 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 |
| 375.00 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 |
| 400.00 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-6 | 10-10 |
| 425.00 | 9-0 | 9-5 | 9-9 | 10-2 | 10-6 | 10-10 | 11-3 | 11-7 | 11-11 | 12-2 |
| 450.00 | 10-1 | 10-7 | 11-0 | 11-5 | 11-9 | 12-2 | 12-7 | 12-11 | 13-4 | 13-8 |
| 475.00 | 11-3 | 11-9 | 12-3 | 12-8 | 13-2 | 13-7 | 14-0 | 14-5 | 14-10 | 15-3 |
| 500.00 | 12-6 | 13-0 | 13-7 | 14-1 | 14-7 | 15-1 | 15-6 | 16-0 | 16-5 | 16-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 225.00 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 |
| 250.00 | 3-4 | 3-5 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 |
| 275.00 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 |
| 300.00 | 4-9 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 |
| 325.00 | 5-7 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 |
| 350.00 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-5 | 8-8 |
| 375.00 | 7-6 | 7-9 | 8-1 | 8-4 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 |
| 400.00 | 8-6 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 | 10-5 | 10-9 | 11-0 | 11-4 |
| 425.00 | 9-7 | 10-0 | 10-4 | 10-9 | 11-1 | 11-5 | 11-9 | 12-1 | 12-5 | 12-9 |
| 450.00 | 10-9 | 11-2 | 11-8 | 12-0 | 12-5 | 12-10 | 13-2 | 13-7 | 13-11 | 14-4 |
| 475.00 | 12-0 | 12-6 | 12-11 | 13-5 | 13-10 | 14-4 | 14-9 | 15-2 | 15-6 | 15-11 |
| 500.00 | 13-4 | 13-10 | 14-4 | 14-10 | 15-4 | 15-10 | 16-4 | 16-9 | 17-3 | 17-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 275.00 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 |
| 300.00 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 |
| 325.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 |
| 350.00 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 |
| 375.00 | 7-6 | 7-8 | 7-10 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 |
| 400.00 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-4 |
| 425.00 | 9-7 | 9-10 | 10-1 | 10-4 | 10-7 | 10-10 | 11-0 | 11-3 | 11-6 | 11-9 |
| 450.00 | 10-9 | 11-1 | 11-4 | 11-7 | 11-10 | 12-1 | 12-5 | 12-8 | 12-11 | 13-2 |
| 475.00 | 12-0 | 12-4 | 12-7 | 12-11 | 13-3 | 13-6 | 13-10 | 14-1 | 14-4 | 14-8 |
| 500.00 | 13-3 | 13-8 | 14-0 | 14-4 | 14-8 | 15-0 | 15-3 | 15-7 | 15-11 | 16-3 |
| 525.00 | 14-8 | 15-0 | 15-5 | 15-9 | 16-2 | 16-6 | 16-10 | 17-2 | 17-6 | 17-11 |
| 550.00 | 16-1 | 16-6 | 16-11 | 17-4 | 17-9 | 18-1 | 18-6 | 18-11 | 19-3 | 19-7 |
| 575.00 | 17-7 | 18-0 | 18-6 | 18-11 | 19-4 | 19-10 | 20-3 | 20-8 | 21-1 | 21-5 |
| 600.00 | 19-2 | 19-8 | 20-2 | 20-7 | 21-1 | 21-7 | 22-0 | 22-6 | 22-11 | 23-4 |
| 625.00 | 20-9 | 21-4 | 21-10 | 22-5 | 22-11 | 23-5 | 23-11 | 24-5 | 24-11 | 25-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 275.00 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 |
| 300.00 | 5-0 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 |
| 325.00 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 |
| 350.00 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-2 |
| 375.00 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 |
| 400.00 | 8-10 | 9-1 | 9-3 | 9-6 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 |
| 425.00 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 | 11-2 | 11-5 | 11-8 | 11-10 | 12-1 |
| 450.00 | 11-2 | 11-6 | 11-9 | 12-0 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 |
| 475.00 | 12-6 | 12-10 | 13-1 | 13-5 | 13-8 | 14-0 | 14-3 | 14-7 | 14-10 | 15-1 |
| 500.00 | 13-10 | 14-2 | 14-6 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-5 | 16-9 |
| 525.00 | 15-3 | 15-8 | 16-0 | 16-5 | 16-9 | 17-1 | 17-5 | 17-9 | 18-1 | 18-5 |
| 550.00 | 16-9 | 17-2 | 17-7 | 18-0 | 18-5 | 18-9 | 19-2 | 19-6 | 19-11 | 20-3 |
| 575.00 | 18-4 | 18-9 | 19-3 | 19-8 | 20-1 | 20-6 | 20-11 | 21-4 | 21-9 | 22-2 |
| 600.00 | 19-11 | 20-5 | 20-11 | 21-5 | 21-10 | 22-4 | 22-10 | 23-3 | 23-8 | 24-1 |
| 625.00 | 21-8 | 22-2 | 22-8 | 23-3 | 23-9 | 24-3 | 24-9 | 25-3 | 25-8 | 26-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 0.63 | 2339 | 0.49 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 0.26 | 3791 | 0.22 | 4370 |
| 30 | 0 | 0 | 0 | 0.785 | 0.31 | 3177 | 0.25 | 3857 |
| 40 | 0 | 0 | 0 | 0.785 | 0.38 | 2594 | 0.29 | 3342 |
| 50 | 0 | 0 | 0 | 0.785 | 0.47 | 2066 | 0.35 | 2831 |
| 60 | 0 | 0 | 0 | 0.785 | 0.6 | 1627 | 0.42 | 2340 |
| 70 | 0 | 0 | 0 | 0.785 | 0.76 | 1298 | 0.52 | 1891 |
| 80 | 0 | 0 | 0 | 0.785 | 0.92 | 1070 | 0.65 | 1516 |
| 90 | 0 | 0 | 0 | 0.785 | 1.05 | 937 | 0.8 | 1232 |
| 100 | 0 | 0 | 0 | 0.785 | 1.12 | 878 | 0.95 | 1030 |
| 110 | 0 | 0 | 0 | 0.785 | 1.19 | 826 | 1.11 | 888 |
| 120 | 0 | 0 | 0 | 0.785 | 1.26 | 779 | 1.25 | 785 |
| 130 | 0 | 0 | 0 | 0.785 | 1.34 | 731 | 1.34 | 731 |
| 167 | 0 | 0 | 0 | 0.785 | 1.6 | 613 | 1.6 | 613 |
| 212 | 0 | 0 | 0 | 0.785 | 1.9 | 518 | 1.9 | 518 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 2.31 | 2550 | 1.97 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 1.28 | 3056 | 1.06 | 3712 |
| 30 | 0 | 0 | 0 | 0.785 | 1.49 | 2628 | 1.2 | 3276 |
| 40 | 0 | 0 | 0 | 0.785 | 1.73 | 2270 | 1.37 | 2870 |
| 50 | 0 | 0 | 0 | 0.785 | 1.98 | 1982 | 1.57 | 2507 |
| 60 | 0 | 0 | 0 | 0.785 | 2.24 | 1755 | 1.79 | 2196 |
| 70 | 0 | 0 | 0 | 0.785 | 2.49 | 1575 | 2.03 | 1938 |
| 80 | 0 | 0 | 0 | 0.785 | 2.74 | 1433 | 2.27 | 1729 |
| 90 | 0 | 0 | 0 | 0.785 | 2.98 | 1318 | 2.52 | 1561 |
| 100 | 0 | 0 | 0 | 0.785 | 3.21 | 1224 | 2.76 | 1425 |
| 110 | 0 | 0 | 0 | 0.785 | 3.36 | 1169 | 2.99 | 1314 |
| 120 | 0 | 0 | 0 | 0.785 | 3.48 | 1131 | 3.21 | 1223 |
| 130 | 0 | 0 | 0 | 0.785 | 3.59 | 1095 | 3.43 | 1146 |
| 167 | 0 | 0 | 0 | 0.785 | 4.01 | 979 | 4.01 | 979 |
| 212 | 0 | 0 | 0 | 0.785 | 4.49 | 876 | 4.49 | 876 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 4.92 | 2696 | 4.42 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 3.49 | 2535 | 2.94 | 3000 |
| 30 | 0 | 0 | 0 | 0.785 | 3.82 | 2312 | 3.24 | 2725 |
| 40 | 0 | 0 | 0 | 0.785 | 4.16 | 2126 | 3.55 | 2487 |
| 50 | 0 | 0 | 0 | 0.785 | 4.49 | 1970 | 3.87 | 2284 |
| 60 | 0 | 0 | 0 | 0.785 | 4.81 | 1838 | 4.19 | 2111 |
| 70 | 0 | 0 | 0 | 0.785 | 5.12 | 1727 | 4.5 | 1963 |
| 80 | 0 | 0 | 0 | 0.785 | 5.42 | 1631 | 4.81 | 1837 |
| 90 | 0 | 0 | 0 | 0.785 | 5.72 | 1547 | 5.11 | 1729 |
| 100 | 0 | 0 | 0 | 0.785 | 6 | 1474 | 5.41 | 1635 |
| 110 | 0 | 0 | 0 | 0.785 | 6.27 | 1410 | 5.7 | 1553 |
| 120 | 0 | 0 | 0 | 0.785 | 6.5 | 1362 | 5.97 | 1481 |
| 130 | 0 | 0 | 0 | 0.785 | 6.64 | 1332 | 6.24 | 1417 |
| 167 | 0 | 0 | 0 | 0.785 | 7.18 | 1233 | 7.18 | 1233 |
| 212 | 0 | 0 | 0 | 0.785 | 7.8 | 1135 | 7.8 | 1135 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 8.47 | 2788 | 7.87 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 6.85 | 2296 | 6.12 | 2566 |
| 30 | 0 | 0 | 0 | 0.785 | 7.23 | 2174 | 6.5 | 2417 |
| 40 | 0 | 0 | 0 | 0.785 | 7.61 | 2067 | 6.88 | 2286 |
| 50 | 0 | 0 | 0 | 0.785 | 7.97 | 1973 | 7.24 | 2170 |
| 60 | 0 | 0 | 0 | 0.785 | 8.33 | 1889 | 7.6 | 2067 |
| 70 | 0 | 0 | 0 | 0.785 | 8.67 | 1814 | 7.96 | 1976 |
| 80 | 0 | 0 | 0 | 0.785 | 9.01 | 1746 | 8.3 | 1894 |
| 90 | 0 | 0 | 0 | 0.785 | 9.34 | 1685 | 8.64 | 1820 |
| 100 | 0 | 0 | 0 | 0.785 | 9.66 | 1630 | 8.97 | 1754 |
| 110 | 0 | 0 | 0 | 0.785 | 9.97 | 1579 | 9.29 | 1693 |
| 120 | 0 | 0 | 0 | 0.785 | 10.27 | 1532 | 9.61 | 1638 |
| 130 | 0 | 0 | 0 | 0.785 | 10.53 | 1495 | 9.92 | 1587 |
| 167 | 0 | 0 | 0 | 0.785 | 11.15 | 1413 | 11 | 1432 |
| 212 | 0 | 0 | 0 | 0.785 | 11.89 | 1325 | 11.89 | 1325 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.179 | 12.97 | 2847 | 12.31 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 11.26 | 2184 | 10.46 | 2350 |
| 30 | 0 | 0 | 0 | 0.785 | 11.66 | 2109 | 10.86 | 2263 |
| 40 | 0 | 0 | 0 | 0.785 | 12.05 | 2041 | 11.26 | 2183 |
| 50 | 0 | 0 | 0 | 0.785 | 12.43 | 1978 | 11.65 | 2111 |
| 60 | 0 | 0 | 0 | 0.785 | 12.81 | 1920 | 12.03 | 2044 |
| 70 | 0 | 0 | 0 | 0.785 | 13.18 | 1867 | 12.4 | 1983 |
| 80 | 0 | 0 | 0 | 0.785 | 13.54 | 1818 | 12.77 | 1926 |
| 90 | 0 | 0 | 0 | 0.785 | 13.89 | 1772 | 13.13 | 1874 |
| 100 | 0 | 0 | 0 | 0.785 | 14.23 | 1729 | 13.48 | 1825 |
| 110 | 0 | 0 | 0 | 0.785 | 14.57 | 1689 | 13.83 | 1780 |
| 120 | 0 | 0 | 0 | 0.785 | 14.9 | 1652 | 14.17 | 1737 |
| 130 | 0 | 0 | 0 | 0.785 | 15.23 | 1617 | 14.5 | 1698 |
| 167 | 0 | 0 | 0 | 0.785 | 15.98 | 1541 | 15.69 | 1570 |
| 212 | 0 | 0 | 0 | 0.785 | 16.82 | 1465 | 16.82 | 1465 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 |
| 125.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-10 | 2-2 | 2-6 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-7 | 2-0 | 2-5 | 2-11 | 3-5 |
| 200.00 | 0-11 | 1-0 | 1-2 | 1-5 | 1-8 | 2-1 | 2-7 | 3-2 | 3-10 | 4-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-9 | 1-10 |
| 150.00 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-8 | 2-1 | 2-4 | 2-6 | 2-8 |
| 175.00 | 0-10 | 0-11 | 1-2 | 1-5 | 1-10 | 2-4 | 2-10 | 3-3 | 3-5 | 3-8 |
| 200.00 | 1-0 | 1-3 | 1-6 | 1-11 | 2-5 | 3-0 | 3-8 | 4-2 | 4-6 | 4-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 |
| 200.00 | 1-1 | 1-2 | 1-4 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 |
| 225.00 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-9 |
| 250.00 | 1-8 | 1-10 | 2-2 | 2-5 | 2-10 | 3-2 | 3-7 | 3-11 | 4-4 | 4-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 200.00 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-4 |
| 225.00 | 1-8 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-3 |
| 250.00 | 2-0 | 2-4 | 2-8 | 3-1 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 |
| 225.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-2 |
| 250.00 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 |
| 275.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-9 |
| 300.00 | 2-11 | 3-3 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 |
| 325.00 | 3-5 | 3-10 | 4-2 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-8 |
| 350.00 | 4-0 | 4-5 | 4-10 | 5-3 | 5-8 | 6-2 | 6-7 | 7-0 | 7-4 | 7-9 |
| 375.00 | 4-7 | 5-1 | 5-7 | 6-1 | 6-7 | 7-0 | 7-6 | 8-0 | 8-5 | 8-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 175.00 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 |
| 200.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 |
| 225.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 |
| 250.00 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 275.00 | 2-11 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 |
| 300.00 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-9 | 6-0 | 6-3 |
| 325.00 | 4-1 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-9 | 7-0 | 7-4 |
| 350.00 | 4-9 | 5-2 | 5-8 | 6-1 | 6-7 | 7-0 | 7-5 | 7-9 | 8-2 | 8-6 |
| 375.00 | 5-5 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-6 | 8-11 | 9-5 | 9-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 |
| 250.00 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 |
| 275.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 |
| 300.00 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 |
| 325.00 | 4-1 | 4-4 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 |
| 350.00 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 |
| 375.00 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 |
| 400.00 | 6-1 | 6-6 | 6-11 | 7-3 | 7-7 | 7-11 | 8-4 | 8-8 | 9-0 | 9-4 |
| 425.00 | 6-11 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-9 | 10-2 | 10-6 |
| 450.00 | 7-9 | 8-3 | 8-8 | 9-2 | 9-8 | 10-1 | 10-6 | 10-11 | 11-4 | 11-9 |
| 475.00 | 8-8 | 9-2 | 9-8 | 10-3 | 10-9 | 11-3 | 11-9 | 12-2 | 12-8 | 13-1 |
| 500.00 | 9-7 | 10-2 | 10-9 | 11-4 | 11-11 | 12-5 | 13-0 | 13-6 | 14-0 | 14-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 225.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 |
| 250.00 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 |
| 275.00 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 |
| 300.00 | 3-10 | 4-1 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 |
| 325.00 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 |
| 350.00 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 |
| 375.00 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 | 7-11 | 8-2 | 8-6 | 8-9 |
| 400.00 | 6-10 | 7-3 | 7-7 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 | 9-8 | 10-0 |
| 425.00 | 7-9 | 8-2 | 8-7 | 9-0 | 9-5 | 9-9 | 10-2 | 10-6 | 10-11 | 11-3 |
| 450.00 | 8-8 | 9-2 | 9-8 | 10-1 | 10-6 | 11-0 | 11-5 | 11-10 | 12-3 | 12-7 |
| 475.00 | 9-8 | 10-2 | 10-9 | 11-3 | 11-9 | 12-3 | 12-8 | 13-2 | 13-7 | 14-1 |
| 500.00 | 10-8 | 11-4 | 11-11 | 12-5 | 13-0 | 13-7 | 14-1 | 14-7 | 15-1 | 15-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 275.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 |
| 300.00 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 |
| 325.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 |
| 350.00 | 5-1 | 5-4 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 |
| 375.00 | 5-11 | 6-1 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 |
| 400.00 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-7 | 8-10 |
| 425.00 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 |
| 450.00 | 8-6 | 8-10 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-2 |
| 475.00 | 9-5 | 9-10 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 | 12-6 |
| 500.00 | 10-6 | 10-10 | 11-3 | 11-8 | 12-0 | 12-5 | 12-9 | 13-2 | 13-6 | 13-10 |
| 525.00 | 11-6 | 12-0 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-10 | 15-3 |
| 550.00 | 12-8 | 13-2 | 13-7 | 14-1 | 14-7 | 15-0 | 15-5 | 15-11 | 16-4 | 16-9 |
| 575.00 | 13-10 | 14-4 | 14-11 | 15-5 | 15-11 | 16-5 | 16-11 | 17-4 | 17-10 | 18-3 |
| 600.00 | 15-1 | 15-8 | 16-3 | 16-9 | 17-4 | 17-10 | 18-5 | 18-11 | 19-5 | 19-11 |
| 625.00 | 16-4 | 17-0 | 17-7 | 18-2 | 18-10 | 19-5 | 20-0 | 20-6 | 21-1 | 21-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 |
| 275.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 |
| 300.00 | 4-1 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 |
| 325.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 |
| 350.00 | 5-6 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 |
| 375.00 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-5 | 7-7 | 7-10 | 8-0 | 8-2 |
| 400.00 | 7-2 | 7-6 | 7-9 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-1 | 9-4 |
| 425.00 | 8-2 | 8-5 | 8-8 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 |
| 450.00 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 11-0 | 11-3 | 11-6 | 11-10 |
| 475.00 | 10-2 | 10-6 | 10-10 | 11-3 | 11-7 | 11-11 | 12-3 | 12-6 | 12-10 | 13-2 |
| 500.00 | 11-3 | 11-8 | 12-1 | 12-5 | 12-10 | 13-2 | 13-6 | 13-11 | 14-3 | 14-7 |
| 525.00 | 12-5 | 12-10 | 13-3 | 13-9 | 14-1 | 14-6 | 14-11 | 15-4 | 15-8 | 16-1 |
| 550.00 | 13-7 | 14-1 | 14-7 | 15-1 | 15-6 | 15-11 | 16-5 | 16-10 | 17-3 | 17-8 |
| 575.00 | 14-11 | 15-5 | 15-11 | 16-5 | 16-11 | 17-5 | 17-11 | 18-4 | 18-10 | 19-3 |
| 600.00 | 16-3 | 16-10 | 17-4 | 17-11 | 18-5 | 19-0 | 19-6 | 20-0 | 20-6 | 21-0 |
| 625.00 | 17-7 | 18-3 | 18-10 | 19-5 | 20-0 | 20-7 | 21-2 | 21-9 | 22-3 | 22-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 1.47 | 1000 | 1.47 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 1.11 | 886 | 1.11 | 886 |
| 30 | 0 | 0 | 0 | 0.785 | 1.54 | 639 | 1.53 | 642 |
| 40 | 0 | 0 | 0 | 0.785 | 1.66 | 593 | 1.65 | 596 |
| 50 | 0 | 0 | 0 | 0.785 | 1.77 | 555 | 1.76 | 558 |
| 60 | 0 | 0 | 0 | 0.785 | 1.88 | 523 | 1.87 | 526 |
| 70 | 0 | 0 | 0 | 0.785 | 1.98 | 496 | 1.97 | 499 |
| 80 | 0 | 0 | 0 | 0.785 | 2.08 | 472 | 2.07 | 475 |
| 90 | 0 | 0 | 0 | 0.785 | 2.17 | 452 | 2.16 | 454 |
| 100 | 0 | 0 | 0 | 0.785 | 2.23 | 441 | 2.23 | 441 |
| 110 | 0 | 0 | 0 | 0.785 | 2.29 | 430 | 2.29 | 430 |
| 120 | 0 | 0 | 0 | 0.785 | 2.34 | 420 | 2.34 | 420 |
| 130 | 0 | 0 | 0 | 0.785 | 2.39 | 411 | 2.39 | 411 |
| 167 | 0 | 0 | 0 | 0.785 | 2.58 | 381 | 2.58 | 381 |
| 212 | 0 | 0 | 0 | 0.785 | 2.8 | 352 | 2.8 | 352 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 5.93 | 998 | 5.91 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 5.54 | 710 | 5.52 | 713 |
| 30 | 0 | 0 | 0 | 0.785 | 5.99 | 657 | 5.97 | 659 |
| 40 | 0 | 0 | 0 | 0.785 | 6.13 | 643 | 6.11 | 645 |
| 50 | 0 | 0 | 0 | 0.785 | 6.26 | 629 | 6.24 | 632 |
| 60 | 0 | 0 | 0 | 0.785 | 6.39 | 617 | 6.37 | 619 |
| 70 | 0 | 0 | 0 | 0.785 | 6.52 | 605 | 6.49 | 607 |
| 80 | 0 | 0 | 0 | 0.785 | 6.64 | 594 | 6.61 | 596 |
| 90 | 0 | 0 | 0 | 0.785 | 6.76 | 583 | 6.74 | 585 |
| 100 | 0 | 0 | 0 | 0.785 | 6.88 | 573 | 6.86 | 575 |
| 110 | 0 | 0 | 0 | 0.785 | 6.95 | 567 | 6.95 | 567 |
| 120 | 0 | 0 | 0 | 0.785 | 7.03 | 561 | 7.03 | 561 |
| 130 | 0 | 0 | 0 | 0.785 | 7.1 | 556 | 7.1 | 556 |
| 167 | 0 | 0 | 0 | 0.785 | 7.37 | 536 | 7.37 | 536 |
| 212 | 0 | 0 | 0 | 0.785 | 7.68 | 514 | 7.68 | 514 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 13.39 | 999 | 13.37 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 13 | 684 | 12.97 | 686 |
| 30 | 0 | 0 | 0 | 0.785 | 13.45 | 662 | 13.43 | 663 |
| 40 | 0 | 0 | 0 | 0.785 | 13.59 | 655 | 13.56 | 656 |
| 50 | 0 | 0 | 0 | 0.785 | 13.73 | 649 | 13.7 | 650 |
| 60 | 0 | 0 | 0 | 0.785 | 13.86 | 643 | 13.83 | 644 |
| 70 | 0 | 0 | 0 | 0.785 | 14 | 636 | 13.96 | 638 |
| 80 | 0 | 0 | 0 | 0.785 | 14.13 | 631 | 14.1 | 632 |
| 90 | 0 | 0 | 0 | 0.785 | 14.26 | 625 | 14.23 | 626 |
| 100 | 0 | 0 | 0 | 0.785 | 14.39 | 619 | 14.36 | 621 |
| 110 | 0 | 0 | 0 | 0.785 | 14.48 | 616 | 14.48 | 616 |
| 120 | 0 | 0 | 0 | 0.785 | 14.56 | 612 | 14.56 | 612 |
| 130 | 0 | 0 | 0 | 0.785 | 14.64 | 609 | 14.64 | 609 |
| 167 | 0 | 0 | 0 | 0.785 | 14.94 | 597 | 14.94 | 597 |
| 212 | 0 | 0 | 0 | 0.785 | 15.3 | 583 | 15.3 | 583 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 23.93 | 999 | 23.91 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 23.55 | 676 | 23.51 | 677 |
| 30 | 0 | 0 | 0 | 0.785 | 24 | 664 | 23.97 | 664 |
| 40 | 0 | 0 | 0 | 0.785 | 24.14 | 660 | 24.11 | 661 |
| 50 | 0 | 0 | 0 | 0.785 | 24.28 | 656 | 24.25 | 657 |
| 60 | 0 | 0 | 0 | 0.785 | 24.42 | 653 | 24.38 | 653 |
| 70 | 0 | 0 | 0 | 0.785 | 24.55 | 649 | 24.52 | 650 |
| 80 | 0 | 0 | 0 | 0.785 | 24.69 | 646 | 24.65 | 647 |
| 90 | 0 | 0 | 0 | 0.785 | 24.82 | 642 | 24.79 | 643 |
| 100 | 0 | 0 | 0 | 0.785 | 24.96 | 639 | 24.92 | 640 |
| 110 | 0 | 0 | 0 | 0.785 | 25.06 | 636 | 25.05 | 637 |
| 120 | 0 | 0 | 0 | 0.785 | 25.15 | 634 | 25.15 | 634 |
| 130 | 0 | 0 | 0 | 0.785 | 25.23 | 632 | 25.23 | 632 |
| 167 | 0 | 0 | 0 | 0.785 | 25.55 | 625 | 25.55 | 625 |
| 212 | 0 | 0 | 0 | 0.785 | 25.92 | 616 | 25.92 | 616 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 37.7 | 999 | 37.67 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 37.32 | 672 | 37.28 | 673 |
| 30 | 0 | 0 | 0 | 0.785 | 37.76 | 664 | 37.73 | 665 |
| 40 | 0 | 0 | 0 | 0.785 | 37.9 | 662 | 37.87 | 663 |
| 50 | 0 | 0 | 0 | 0.785 | 38.04 | 660 | 38.01 | 660 |
| 60 | 0 | 0 | 0 | 0.785 | 38.18 | 658 | 38.15 | 658 |
| 70 | 0 | 0 | 0 | 0.785 | 38.32 | 655 | 38.28 | 656 |
| 80 | 0 | 0 | 0 | 0.785 | 38.46 | 653 | 38.42 | 654 |
| 90 | 0 | 0 | 0 | 0.785 | 38.59 | 651 | 38.56 | 651 |
| 100 | 0 | 0 | 0 | 0.785 | 38.73 | 649 | 38.69 | 649 |
| 110 | 0 | 0 | 0 | 0.785 | 38.84 | 647 | 38.83 | 647 |
| 120 | 0 | 0 | 0 | 0.785 | 38.92 | 646 | 38.92 | 646 |
| 130 | 0 | 0 | 0 | 0.785 | 39.01 | 644 | 39.01 | 644 |
| 167 | 0 | 0 | 0 | 0.785 | 39.33 | 639 | 39.33 | 639 |
| 212 | 0 | 0 | 0 | 0.785 | 39.72 | 633 | 39.72 | 633 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-3 |
| 100.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 |
| 125.00 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-7 |
| 150.00 | 3-2 | 3-5 | 3-9 | 4-0 | 4-2 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 |
| 175.00 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-10 | 7-0 |
| 200.00 | 5-7 | 6-1 | 6-7 | 7-1 | 7-6 | 7-11 | 8-3 | 8-8 | 8-11 | 9-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-3 |
| 100.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 |
| 125.00 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-7 |
| 150.00 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-0 | 5-2 |
| 175.00 | 4-4 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-8 | 6-10 | 7-0 |
| 200.00 | 5-8 | 6-2 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-8 | 8-11 | 9-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 |
| 125.00 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 150.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 |
| 175.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 200.00 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 |
| 225.00 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 | 8-6 | 8-8 | 8-10 |
| 250.00 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 | 10-9 | 10-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 |
| 125.00 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 |
| 150.00 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 |
| 175.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 200.00 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 | 6-11 | 6-11 |
| 225.00 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 |
| 250.00 | 9-2 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 | 10-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 |
| 175.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 |
| 200.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 |
| 225.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 |
| 250.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 |
| 275.00 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 |
| 300.00 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 |
| 325.00 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 | 16-8 | 16-10 | 17-0 |
| 350.00 | 18-1 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-5 | 19-7 | 19-9 |
| 375.00 | 20-10 | 21-0 | 21-3 | 21-5 | 21-8 | 21-10 | 22-1 | 22-3 | 22-6 | 22-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 |
| 175.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 |
| 200.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 |
| 225.00 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 |
| 250.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 |
| 275.00 | 11-2 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 | 12-2 |
| 300.00 | 13-4 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 |
| 325.00 | 15-8 | 15-10 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 | 16-9 | 16-11 | 17-0 |
| 350.00 | 18-2 | 18-4 | 18-6 | 18-8 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 |
| 375.00 | 20-10 | 21-1 | 21-3 | 21-6 | 21-8 | 21-11 | 22-1 | 22-4 | 22-6 | 22-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.166

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-3 |
| 225.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 |
| 250.00 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 |
| 275.00 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-9 | 11-10 |
| 300.00 | 13-5 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 |
| 325.00 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 |
| 350.00 | 18-3 | 18-4 | 18-5 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-1 | 19-2 |
| 375.00 | 20-11 | 21-1 | 21-2 | 21-4 | 21-5 | 21-6 | 21-8 | 21-9 | 21-11 | 22-0 |
| 400.00 | 23-10 | 24-0 | 24-1 | 24-3 | 24-5 | 24-6 | 24-8 | 24-9 | 24-11 | 25-1 |
| 425.00 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-8 | 27-10 | 28-0 | 28-2 | 28-4 |
| 450.00 | 30-2 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 | 31-5 | 31-7 | 31-9 |
| 475.00 | 33-8 | 33-10 | 34-1 | 34-3 | 34-5 | 34-8 | 34-10 | 35-0 | 35-3 | 35-5 |
| 500.00 | 37-4 | 37-7 | 37-9 | 38-0 | 38-2 | 38-5 | 38-8 | 38-10 | 39-1 | 39-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 |
| 225.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 |
| 250.00 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 |
| 275.00 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-10 |
| 300.00 | 13-5 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 |
| 325.00 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 |
| 350.00 | 18-3 | 18-4 | 18-6 | 18-7 | 18-8 | 18-9 | 18-11 | 19-0 | 19-1 | 19-2 |
| 375.00 | 21-0 | 21-1 | 21-2 | 21-4 | 21-5 | 21-7 | 21-8 | 21-10 | 21-11 | 22-0 |
| 400.00 | 23-10 | 24-0 | 24-2 | 24-3 | 24-5 | 24-7 | 24-8 | 24-10 | 24-11 | 25-1 |
| 425.00 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-9 | 27-11 | 28-0 | 28-2 | 28-4 |
| 450.00 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 | 31-6 | 31-8 | 31-9 |
| 475.00 | 33-9 | 33-11 | 34-1 | 34-4 | 34-6 | 34-8 | 34-11 | 35-1 | 35-3 | 35-5 |
| 500.00 | 37-5 | 37-7 | 37-10 | 38-0 | 38-3 | 38-6 | 38-8 | 38-11 | 39-1 | 39-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-4 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 |
| 275.00 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 |
| 300.00 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 |
| 325.00 | 15-10 | 15-10 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 |
| 350.00 | 18-4 | 18-5 | 18-6 | 18-7 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 18-11 |
| 375.00 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-6 | 21-7 | 21-8 | 21-9 |
| 400.00 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 |
| 425.00 | 27-1 | 27-2 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-10 | 27-11 | 28-0 |
| 450.00 | 30-5 | 30-6 | 30-8 | 30-9 | 30-10 | 31-0 | 31-1 | 31-2 | 31-4 | 31-5 |
| 475.00 | 33-11 | 34-0 | 34-2 | 34-3 | 34-5 | 34-6 | 34-8 | 34-9 | 34-11 | 35-0 |
| 500.00 | 37-7 | 37-9 | 37-10 | 38-0 | 38-2 | 38-3 | 38-5 | 38-7 | 38-8 | 38-10 |
| 525.00 | 41-6 | 41-8 | 41-9 | 41-11 | 42-1 | 42-3 | 42-5 | 42-6 | 42-8 | 42-10 |
| 550.00 | 45-7 | 45-9 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 | 46-9 | 46-11 | 47-1 |
| 575.00 | 49-10 | 50-0 | 50-2 | 50-5 | 50-7 | 50-9 | 50-11 | 51-1 | 51-4 | 51-6 |
| 600.00 | 54-4 | 54-6 | 54-9 | 54-11 | 55-1 | 55-4 | 55-6 | 55-9 | 55-11 | 56-1 |
| 625.00 | 59-0 | 59-2 | 59-5 | 59-8 | 59-10 | 60-1 | 60-4 | 60-6 | 60-9 | 60-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-4 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 |
| 275.00 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 |
| 300.00 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 |
| 325.00 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 |
| 350.00 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-8 | 18-9 | 18-10 | 18-11 | 18-11 |
| 375.00 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-9 |
| 400.00 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 | 24-9 | 24-9 |
| 425.00 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 |
| 450.00 | 30-5 | 30-7 | 30-8 | 30-9 | 30-11 | 31-0 | 31-1 | 31-3 | 31-4 | 31-5 |
| 475.00 | 33-11 | 34-1 | 34-2 | 34-4 | 34-5 | 34-7 | 34-8 | 34-10 | 34-11 | 35-0 |
| 500.00 | 37-8 | 37-9 | 37-11 | 38-1 | 38-2 | 38-4 | 38-5 | 38-7 | 38-9 | 38-10 |
| 525.00 | 41-6 | 41-8 | 41-10 | 42-0 | 42-2 | 42-3 | 42-5 | 42-7 | 42-9 | 42-10 |
| 550.00 | 45-7 | 45-9 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 | 46-9 | 46-11 | 47-1 |
| 575.00 | 49-11 | 50-1 | 50-3 | 50-5 | 50-7 | 50-10 | 51-0 | 51-2 | 51-4 | 51-6 |
| 600.00 | 54-4 | 54-7 | 54-9 | 55-0 | 55-2 | 55-4 | 55-7 | 55-9 | 56-0 | 56-1 |
| 625.00 | 59-0 | 59-3 | 59-6 | 59-8 | 59-11 | 60-2 | 60-4 | 60-7 | 60-9 | 60-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 1 | 1478 | 0.98 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 0.57 | 1728 | 0.56 | 1738 |
| 30 | 0 | 0 | 0 | 0.785 | 1.04 | 947 | 1.01 | 976 |
| 40 | 0 | 0 | 0 | 0.785 | 1.19 | 826 | 1.16 | 850 |
| 50 | 0 | 0 | 0 | 0.785 | 1.33 | 738 | 1.3 | 757 |
| 60 | 0 | 0 | 0 | 0.785 | 1.46 | 671 | 1.43 | 687 |
| 70 | 0 | 0 | 0 | 0.785 | 1.59 | 618 | 1.55 | 632 |
| 80 | 0 | 0 | 0 | 0.785 | 1.71 | 576 | 1.67 | 587 |
| 90 | 0 | 0 | 0 | 0.785 | 1.82 | 540 | 1.78 | 550 |
| 100 | 0 | 0 | 0 | 0.785 | 1.89 | 519 | 1.89 | 520 |
| 110 | 0 | 0 | 0 | 0.785 | 1.95 | 503 | 1.95 | 503 |
| 120 | 0 | 0 | 0 | 0.785 | 2.01 | 488 | 2.01 | 488 |
| 130 | 0 | 0 | 0 | 0.785 | 2.07 | 474 | 2.07 | 474 |
| 167 | 0 | 0 | 0 | 0.785 | 2.28 | 431 | 2.28 | 431 |
| 212 | 0 | 0 | 0 | 0.785 | 2.52 | 390 | 2.52 | 390 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 4.01 | 1473 | 3.94 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 3.45 | 1139 | 3.36 | 1169 |
| 30 | 0 | 0 | 0 | 0.785 | 4.06 | 969 | 3.96 | 992 |
| 40 | 0 | 0 | 0 | 0.785 | 4.24 | 926 | 4.15 | 947 |
| 50 | 0 | 0 | 0 | 0.785 | 4.42 | 889 | 4.33 | 908 |
| 60 | 0 | 0 | 0 | 0.785 | 4.6 | 855 | 4.51 | 873 |
| 70 | 0 | 0 | 0 | 0.785 | 4.77 | 825 | 4.68 | 841 |
| 80 | 0 | 0 | 0 | 0.785 | 4.93 | 798 | 4.84 | 813 |
| 90 | 0 | 0 | 0 | 0.785 | 5.09 | 773 | 5 | 787 |
| 100 | 0 | 0 | 0 | 0.785 | 5.25 | 750 | 5.16 | 763 |
| 110 | 0 | 0 | 0 | 0.785 | 5.36 | 734 | 5.31 | 742 |
| 120 | 0 | 0 | 0 | 0.785 | 5.45 | 722 | 5.45 | 722 |
| 130 | 0 | 0 | 0 | 0.785 | 5.54 | 710 | 5.54 | 710 |
| 167 | 0 | 0 | 0 | 0.785 | 5.87 | 671 | 5.87 | 671 |
| 212 | 0 | 0 | 0 | 0.785 | 6.24 | 631 | 6.24 | 631 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 8.97 | 1483 | 8.87 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 8.4 | 1055 | 8.28 | 1069 |
| 30 | 0 | 0 | 0 | 0.785 | 9.02 | 982 | 8.9 | 996 |
| 40 | 0 | 0 | 0 | 0.785 | 9.22 | 961 | 9.1 | 974 |
| 50 | 0 | 0 | 0 | 0.785 | 9.41 | 942 | 9.29 | 954 |
| 60 | 0 | 0 | 0 | 0.785 | 9.61 | 923 | 9.48 | 935 |
| 70 | 0 | 0 | 0 | 0.785 | 9.79 | 906 | 9.67 | 917 |
| 80 | 0 | 0 | 0 | 0.785 | 9.98 | 889 | 9.86 | 900 |
| 90 | 0 | 0 | 0 | 0.785 | 10.16 | 873 | 10.04 | 884 |
| 100 | 0 | 0 | 0 | 0.785 | 10.34 | 858 | 10.22 | 868 |
| 110 | 0 | 0 | 0 | 0.785 | 10.51 | 844 | 10.39 | 854 |
| 120 | 0 | 0 | 0 | 0.785 | 10.62 | 836 | 10.56 | 840 |
| 130 | 0 | 0 | 0 | 0.785 | 10.73 | 827 | 10.73 | 827 |
| 167 | 0 | 0 | 0 | 0.785 | 11.12 | 798 | 11.12 | 798 |
| 212 | 0 | 0 | 0 | 0.785 | 11.58 | 767 | 11.58 | 767 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 15.93 | 1490 | 15.81 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 15.35 | 1029 | 15.22 | 1037 |
| 30 | 0 | 0 | 0 | 0.785 | 15.98 | 989 | 15.84 | 997 |
| 40 | 0 | 0 | 0 | 0.785 | 16.18 | 977 | 16.05 | 985 |
| 50 | 0 | 0 | 0 | 0.785 | 16.38 | 965 | 16.25 | 973 |
| 60 | 0 | 0 | 0 | 0.785 | 16.58 | 953 | 16.44 | 961 |
| 70 | 0 | 0 | 0 | 0.785 | 16.78 | 942 | 16.64 | 950 |
| 80 | 0 | 0 | 0 | 0.785 | 16.97 | 932 | 16.83 | 939 |
| 90 | 0 | 0 | 0 | 0.785 | 17.16 | 921 | 17.03 | 929 |
| 100 | 0 | 0 | 0 | 0.785 | 17.35 | 912 | 17.22 | 919 |
| 110 | 0 | 0 | 0 | 0.785 | 17.54 | 902 | 17.4 | 909 |
| 120 | 0 | 0 | 0 | 0.785 | 17.68 | 895 | 17.59 | 899 |
| 130 | 0 | 0 | 0 | 0.785 | 17.8 | 889 | 17.77 | 890 |
| 167 | 0 | 0 | 0 | 0.785 | 18.24 | 868 | 18.24 | 868 |
| 212 | 0 | 0 | 0 | 0.785 | 18.75 | 845 | 18.75 | 845 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 24.92 | 1493 | 24.8 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 24.34 | 1017 | 24.21 | 1023 |
| 30 | 0 | 0 | 0 | 0.785 | 24.97 | 992 | 24.83 | 998 |
| 40 | 0 | 0 | 0 | 0.785 | 25.17 | 984 | 25.03 | 990 |
| 50 | 0 | 0 | 0 | 0.785 | 25.38 | 977 | 25.24 | 982 |
| 60 | 0 | 0 | 0 | 0.785 | 25.58 | 969 | 25.44 | 974 |
| 70 | 0 | 0 | 0 | 0.785 | 25.78 | 962 | 25.64 | 967 |
| 80 | 0 | 0 | 0 | 0.785 | 25.98 | 954 | 25.84 | 960 |
| 90 | 0 | 0 | 0 | 0.785 | 26.18 | 947 | 26.03 | 953 |
| 100 | 0 | 0 | 0 | 0.785 | 26.38 | 940 | 26.23 | 946 |
| 110 | 0 | 0 | 0 | 0.785 | 26.57 | 934 | 26.42 | 939 |
| 120 | 0 | 0 | 0 | 0.785 | 26.74 | 928 | 26.62 | 932 |
| 130 | 0 | 0 | 0 | 0.785 | 26.86 | 924 | 26.81 | 926 |
| 167 | 0 | 0 | 0 | 0.785 | 27.32 | 909 | 27.32 | 909 |
| 212 | 0 | 0 | 0 | 0.785 | 27.86 | 891 | 27.86 | 891 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 100.00 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 1-11 |
| 125.00 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 150.00 | 1-11 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-5 |
| 175.00 | 2-7 | 3-1 | 3-6 | 4-0 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 | 6-0 |
| 200.00 | 3-5 | 4-0 | 4-7 | 5-2 | 5-9 | 6-3 | 6-8 | 7-2 | 7-7 | 7-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 100.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 1-11 |
| 125.00 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 |
| 150.00 | 2-0 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-5 |
| 175.00 | 2-8 | 3-2 | 3-8 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 | 5-10 | 6-0 |
| 200.00 | 3-6 | 4-2 | 4-9 | 5-4 | 5-10 | 6-4 | 6-10 | 7-3 | 7-7 | 7-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.172

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 |
| 125.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 |
| 150.00 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 175.00 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 |
| 200.00 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 |
| 225.00 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 |
| 250.00 | 5-11 | 6-2 | 6-6 | 6-9 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 175.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 |
| 200.00 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 |
| 225.00 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-8 | 6-9 |
| 250.00 | 6-0 | 6-4 | 6-8 | 6-11 | 7-2 | 7-5 | 7-9 | 8-0 | 8-2 | 8-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 175.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 |
| 200.00 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 |
| 225.00 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 |
| 250.00 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 |
| 275.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 | 8-9 |
| 300.00 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-3 | 10-5 |
| 325.00 | 10-3 | 10-5 | 10-8 | 10-11 | 11-2 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 |
| 350.00 | 11-10 | 12-1 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-11 | 14-2 |
| 375.00 | 13-7 | 13-11 | 14-3 | 14-6 | 14-10 | 15-1 | 15-5 | 15-8 | 16-0 | 16-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 175.00 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 225.00 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 |
| 250.00 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 |
| 275.00 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 |
| 300.00 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 |
| 325.00 | 10-4 | 10-7 | 10-10 | 11-1 | 11-3 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 |
| 350.00 | 12-0 | 12-3 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 |
| 375.00 | 13-9 | 14-1 | 14-5 | 14-9 | 15-0 | 15-4 | 15-7 | 15-11 | 16-2 | 16-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 |
| 225.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 |
| 250.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 |
| 275.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 |
| 300.00 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 |
| 325.00 | 10-4 | 10-5 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 |
| 350.00 | 12-0 | 12-2 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 |
| 375.00 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 15-0 | 15-2 | 15-3 |
| 400.00 | 15-8 | 15-10 | 16-1 | 16-3 | 16-5 | 16-8 | 16-10 | 17-0 | 17-3 | 17-5 |
| 425.00 | 17-8 | 17-11 | 18-1 | 18-4 | 18-7 | 18-9 | 19-0 | 19-3 | 19-5 | 19-8 |
| 450.00 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-4 | 21-7 | 21-10 | 22-0 |
| 475.00 | 22-1 | 22-4 | 22-8 | 22-11 | 23-3 | 23-6 | 23-9 | 24-0 | 24-4 | 24-7 |
| 500.00 | 24-6 | 24-9 | 25-1 | 25-5 | 25-9 | 26-0 | 26-4 | 26-8 | 26-11 | 27-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 |
| 225.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 |
| 250.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 | 6-10 |
| 275.00 | 7-5 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 300.00 | 8-10 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 |
| 325.00 | 10-5 | 10-6 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 |
| 350.00 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 |
| 375.00 | 13-10 | 14-0 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 |
| 400.00 | 15-9 | 16-0 | 16-2 | 16-5 | 16-7 | 16-9 | 17-0 | 17-2 | 17-4 | 17-7 |
| 425.00 | 17-10 | 18-0 | 18-3 | 18-6 | 18-9 | 18-11 | 19-2 | 19-5 | 19-7 | 19-10 |
| 450.00 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 | 21-9 | 22-0 | 22-3 |
| 475.00 | 22-3 | 22-7 | 22-10 | 23-1 | 23-5 | 23-8 | 23-11 | 24-3 | 24-6 | 24-9 |
| 500.00 | 24-8 | 25-0 | 25-4 | 25-8 | 25-11 | 26-3 | 26-7 | 26-10 | 27-2 | 27-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 |
| 275.00 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 |
| 300.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 | 9-6 |
| 325.00 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 350.00 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-8 | 12-9 | 12-10 | 12-11 |
| 375.00 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 | 14-9 | 14-10 |
| 400.00 | 15-9 | 15-10 | 16-0 | 16-2 | 16-3 | 16-5 | 16-6 | 16-8 | 16-9 | 16-11 |
| 425.00 | 17-9 | 17-11 | 18-1 | 18-3 | 18-4 | 18-6 | 18-8 | 18-9 | 18-11 | 19-1 |
| 450.00 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 |
| 475.00 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-2 | 23-4 | 23-6 | 23-8 | 23-10 |
| 500.00 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-8 | 25-10 | 26-0 | 26-3 | 26-5 |
| 525.00 | 27-2 | 27-5 | 27-7 | 27-10 | 28-1 | 28-3 | 28-6 | 28-9 | 28-11 | 29-2 |
| 550.00 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 | 31-1 | 31-3 | 31-6 | 31-9 | 32-0 |
| 575.00 | 32-7 | 32-10 | 33-2 | 33-5 | 33-8 | 33-11 | 34-2 | 34-6 | 34-9 | 35-0 |
| 600.00 | 35-6 | 35-10 | 36-1 | 36-5 | 36-8 | 37-0 | 37-3 | 37-7 | 37-10 | 38-1 |
| 625.00 | 38-7 | 38-10 | 39-2 | 39-6 | 39-10 | 40-2 | 40-5 | 40-9 | 41-1 | 41-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 |
| 275.00 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 8-0 | 8-0 |
| 300.00 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 |
| 325.00 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 350.00 | 12-1 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 |
| 375.00 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 | 14-10 | 14-11 |
| 400.00 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 17-0 |
| 425.00 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-11 | 19-0 | 19-2 |
| 450.00 | 20-1 | 20-3 | 20-5 | 20-7 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 |
| 475.00 | 22-4 | 22-6 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-10 | 24-0 |
| 500.00 | 24-9 | 25-0 | 25-2 | 25-5 | 25-7 | 25-9 | 26-0 | 26-2 | 26-5 | 26-7 |
| 525.00 | 27-4 | 27-6 | 27-9 | 28-0 | 28-3 | 28-5 | 28-8 | 28-10 | 29-1 | 29-4 |
| 550.00 | 30-0 | 30-3 | 30-6 | 30-9 | 31-0 | 31-3 | 31-6 | 31-8 | 31-11 | 32-2 |
| 575.00 | 32-9 | 33-1 | 33-4 | 33-7 | 33-10 | 34-2 | 34-5 | 34-8 | 34-11 | 35-2 |
| 600.00 | 35-8 | 36-0 | 36-4 | 36-7 | 36-11 | 37-2 | 37-6 | 37-9 | 38-1 | 38-4 |
| 625.00 | 38-9 | 39-1 | 39-5 | 39-9 | 40-1 | 40-4 | 40-8 | 41-0 | 41-4 | 41-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 0.76 | 1929 | 0.74 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 0.38 | 2553 | 0.38 | 2575 |
| 30 | 0 | 0 | 0 | 0.785 | 0.77 | 1278 | 0.71 | 1373 |
| 40 | 0 | 0 | 0 | 0.785 | 0.93 | 1056 | 0.87 | 1132 |
| 50 | 0 | 0 | 0 | 0.785 | 1.09 | 903 | 1.02 | 961 |
| 60 | 0 | 0 | 0 | 0.785 | 1.24 | 794 | 1.17 | 838 |
| 70 | 0 | 0 | 0 | 0.785 | 1.38 | 714 | 1.31 | 749 |
| 80 | 0 | 0 | 0 | 0.785 | 1.51 | 652 | 1.44 | 680 |
| 90 | 0 | 0 | 0 | 0.785 | 1.63 | 603 | 1.57 | 626 |
| 100 | 0 | 0 | 0 | 0.785 | 1.71 | 576 | 1.69 | 583 |
| 110 | 0 | 0 | 0 | 0.785 | 1.77 | 554 | 1.77 | 554 |
| 120 | 0 | 0 | 0 | 0.785 | 1.84 | 535 | 1.84 | 535 |
| 130 | 0 | 0 | 0 | 0.785 | 1.9 | 517 | 1.9 | 517 |
| 167 | 0 | 0 | 0 | 0.785 | 2.12 | 463 | 2.12 | 463 |
| 212 | 0 | 0 | 0 | 0.785 | 2.37 | 415 | 2.37 | 415 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 3.08 | 1914 | 2.95 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 2.36 | 1666 | 2.2 | 1786 |
| 30 | 0 | 0 | 0 | 0.785 | 3.09 | 1272 | 2.92 | 1348 |
| 40 | 0 | 0 | 0 | 0.785 | 3.31 | 1186 | 3.14 | 1251 |
| 50 | 0 | 0 | 0 | 0.785 | 3.53 | 1113 | 3.36 | 1170 |
| 60 | 0 | 0 | 0 | 0.785 | 3.74 | 1052 | 3.57 | 1102 |
| 70 | 0 | 0 | 0 | 0.785 | 3.94 | 999 | 3.77 | 1043 |
| 80 | 0 | 0 | 0 | 0.785 | 4.13 | 953 | 3.96 | 992 |
| 90 | 0 | 0 | 0 | 0.785 | 4.31 | 912 | 4.15 | 947 |
| 100 | 0 | 0 | 0 | 0.785 | 4.49 | 876 | 4.33 | 908 |
| 110 | 0 | 0 | 0 | 0.785 | 4.63 | 850 | 4.51 | 873 |
| 120 | 0 | 0 | 0 | 0.785 | 4.73 | 832 | 4.68 | 841 |
| 130 | 0 | 0 | 0 | 0.785 | 4.83 | 814 | 4.83 | 814 |
| 167 | 0 | 0 | 0 | 0.785 | 5.19 | 759 | 5.19 | 759 |
| 212 | 0 | 0 | 0 | 0.785 | 5.6 | 703 | 5.6 | 703 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 6.84 | 1943 | 6.64 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 6.05 | 1462 | 5.81 | 1522 |
| 30 | 0 | 0 | 0 | 0.785 | 6.84 | 1293 | 6.61 | 1340 |
| 40 | 0 | 0 | 0 | 0.785 | 7.09 | 1248 | 6.86 | 1291 |
| 50 | 0 | 0 | 0 | 0.785 | 7.34 | 1207 | 7.1 | 1247 |
| 60 | 0 | 0 | 0 | 0.785 | 7.57 | 1169 | 7.34 | 1206 |
| 70 | 0 | 0 | 0 | 0.785 | 7.8 | 1135 | 7.57 | 1169 |
| 80 | 0 | 0 | 0 | 0.785 | 8.03 | 1103 | 7.8 | 1136 |
| 90 | 0 | 0 | 0 | 0.785 | 8.25 | 1074 | 8.02 | 1104 |
| 100 | 0 | 0 | 0 | 0.785 | 8.46 | 1047 | 8.24 | 1076 |
| 110 | 0 | 0 | 0 | 0.785 | 8.67 | 1022 | 8.45 | 1049 |
| 120 | 0 | 0 | 0 | 0.785 | 8.83 | 1004 | 8.66 | 1024 |
| 130 | 0 | 0 | 0 | 0.785 | 8.95 | 990 | 8.86 | 1000 |
| 167 | 0 | 0 | 0 | 0.785 | 9.41 | 942 | 9.41 | 942 |
| 212 | 0 | 0 | 0 | 0.785 | 9.93 | 893 | 9.93 | 893 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 12.06 | 1962 | 11.83 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 11.25 | 1400 | 10.97 | 1435 |
| 30 | 0 | 0 | 0 | 0.785 | 12.06 | 1306 | 11.79 | 1336 |
| 40 | 0 | 0 | 0 | 0.785 | 12.32 | 1279 | 12.05 | 1308 |
| 50 | 0 | 0 | 0 | 0.785 | 12.58 | 1253 | 12.31 | 1280 |
| 60 | 0 | 0 | 0 | 0.785 | 12.83 | 1229 | 12.56 | 1255 |
| 70 | 0 | 0 | 0 | 0.785 | 13.08 | 1205 | 12.81 | 1231 |
| 80 | 0 | 0 | 0 | 0.785 | 13.32 | 1184 | 13.05 | 1208 |
| 90 | 0 | 0 | 0 | 0.785 | 13.56 | 1163 | 13.29 | 1186 |
| 100 | 0 | 0 | 0 | 0.785 | 13.8 | 1143 | 13.53 | 1166 |
| 110 | 0 | 0 | 0 | 0.785 | 14.03 | 1124 | 13.76 | 1146 |
| 120 | 0 | 0 | 0 | 0.785 | 14.26 | 1107 | 13.99 | 1127 |
| 130 | 0 | 0 | 0 | 0.785 | 14.4 | 1096 | 14.22 | 1110 |
| 167 | 0 | 0 | 0 | 0.785 | 14.92 | 1058 | 14.92 | 1058 |
| 212 | 0 | 0 | 0 | 0.785 | 15.52 | 1018 | 15.52 | 1018 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 18.77 | 1973 | 18.52 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 17.95 | 1374 | 17.66 | 1396 |
| 30 | 0 | 0 | 0 | 0.785 | 18.77 | 1314 | 18.48 | 1335 |
| 40 | 0 | 0 | 0 | 0.785 | 19.04 | 1296 | 18.75 | 1316 |
| 50 | 0 | 0 | 0 | 0.785 | 19.3 | 1278 | 19.01 | 1298 |
| 60 | 0 | 0 | 0 | 0.785 | 19.56 | 1262 | 19.27 | 1281 |
| 70 | 0 | 0 | 0 | 0.785 | 19.82 | 1245 | 19.53 | 1264 |
| 80 | 0 | 0 | 0 | 0.785 | 20.08 | 1230 | 19.78 | 1248 |
| 90 | 0 | 0 | 0 | 0.785 | 20.33 | 1215 | 20.03 | 1232 |
| 100 | 0 | 0 | 0 | 0.785 | 20.58 | 1200 | 20.28 | 1217 |
| 110 | 0 | 0 | 0 | 0.785 | 20.82 | 1186 | 20.53 | 1203 |
| 120 | 0 | 0 | 0 | 0.785 | 21.07 | 1173 | 20.77 | 1189 |
| 130 | 0 | 0 | 0 | 0.785 | 21.26 | 1162 | 21.01 | 1176 |
| 167 | 0 | 0 | 0 | 0.785 | 21.82 | 1133 | 21.82 | 1133 |
| 212 | 0 | 0 | 0 | 0.785 | 22.47 | 1100 | 22.47 | 1100 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 100.00 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 125.00 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 | 2-5 | 2-8 | 2-9 |
| 150.00 | 1-4 | 1-7 | 1-11 | 2-4 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-0 |
| 175.00 | 1-9 | 2-2 | 2-8 | 3-2 | 3-7 | 4-0 | 4-5 | 4-10 | 5-2 | 5-5 |
| 200.00 | 2-4 | 2-10 | 3-6 | 4-1 | 4-8 | 5-3 | 5-9 | 6-3 | 6-9 | 7-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-8 | 1-9 |
| 125.00 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-8 | 2-9 |
| 150.00 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 3-10 | 4-0 |
| 175.00 | 1-11 | 2-4 | 2-10 | 3-4 | 3-9 | 4-3 | 4-7 | 5-0 | 5-3 | 5-5 |
| 200.00 | 2-5 | 3-1 | 3-9 | 4-4 | 4-11 | 5-6 | 6-0 | 6-6 | 6-10 | 7-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.180

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 |
| 150.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 175.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 |
| 200.00 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 |
| 225.00 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 |
| 250.00 | 4-2 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 125.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 150.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 175.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 |
| 200.00 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 |
| 225.00 | 3-7 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 |
| 250.00 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 |
| 200.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 |
| 225.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 |
| 250.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 |
| 275.00 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-1 |
| 300.00 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 |
| 325.00 | 7-5 | 7-9 | 8-1 | 8-4 | 8-7 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 |
| 350.00 | 8-8 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-7 | 10-11 | 11-3 | 11-6 |
| 375.00 | 9-11 | 10-4 | 10-9 | 11-1 | 11-6 | 11-10 | 12-2 | 12-6 | 12-11 | 13-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 |
| 175.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 |
| 200.00 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 225.00 | 3-8 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 |
| 250.00 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 |
| 275.00 | 5-6 | 5-9 | 6-0 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 |
| 300.00 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-6 | 8-8 |
| 325.00 | 7-9 | 8-0 | 8-4 | 8-7 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 |
| 350.00 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-7 | 10-11 | 11-3 | 11-6 | 11-10 |
| 375.00 | 10-4 | 10-8 | 11-1 | 11-6 | 11-10 | 12-2 | 12-7 | 12-11 | 13-3 | 13-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 |
| 225.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 |
| 250.00 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 275.00 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-5 | 6-6 |
| 300.00 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 |
| 325.00 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 |
| 350.00 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 |
| 375.00 | 10-2 | 10-4 | 10-7 | 10-10 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 | 12-1 |
| 400.00 | 11-6 | 11-9 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-6 | 13-9 |
| 425.00 | 13-0 | 13-4 | 13-7 | 13-11 | 14-2 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 |
| 450.00 | 14-7 | 14-11 | 15-3 | 15-7 | 15-11 | 16-3 | 16-6 | 16-10 | 17-2 | 17-5 |
| 475.00 | 16-3 | 16-8 | 17-0 | 17-4 | 17-9 | 18-1 | 18-5 | 18-9 | 19-1 | 19-5 |
| 500.00 | 18-0 | 18-5 | 18-10 | 19-3 | 19-8 | 20-0 | 20-5 | 20-9 | 21-2 | 21-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 |
| 225.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 |
| 250.00 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 |
| 275.00 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-8 |
| 300.00 | 6-8 | 6-9 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-11 |
| 325.00 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-3 |
| 350.00 | 9-0 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 |
| 375.00 | 10-4 | 10-7 | 10-10 | 11-1 | 11-3 | 11-6 | 11-8 | 11-11 | 12-2 | 12-4 |
| 400.00 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-0 |
| 425.00 | 13-4 | 13-7 | 13-11 | 14-2 | 14-6 | 14-9 | 15-1 | 15-4 | 15-7 | 15-10 |
| 450.00 | 14-11 | 15-3 | 15-7 | 15-11 | 16-3 | 16-7 | 16-10 | 17-2 | 17-6 | 17-9 |
| 475.00 | 16-8 | 17-0 | 17-5 | 17-9 | 18-1 | 18-5 | 18-10 | 19-2 | 19-6 | 19-10 |
| 500.00 | 18-5 | 18-10 | 19-3 | 19-8 | 20-1 | 20-5 | 20-10 | 21-3 | 21-7 | 21-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 |
| 275.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 |
| 300.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-5 |
| 325.00 | 7-8 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 |
| 350.00 | 8-11 | 9-1 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 |
| 375.00 | 10-3 | 10-5 | 10-6 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 | 11-5 | 11-6 |
| 400.00 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 |
| 425.00 | 13-2 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-3 | 14-6 | 14-8 | 14-10 |
| 450.00 | 14-9 | 15-0 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 | 16-3 | 16-5 | 16-7 |
| 475.00 | 16-5 | 16-8 | 16-11 | 17-2 | 17-5 | 17-7 | 17-10 | 18-1 | 18-4 | 18-6 |
| 500.00 | 18-2 | 18-6 | 18-9 | 19-0 | 19-3 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 |
| 525.00 | 20-1 | 20-5 | 20-8 | 21-0 | 21-3 | 21-6 | 21-10 | 22-1 | 22-4 | 22-8 |
| 550.00 | 22-0 | 22-4 | 22-8 | 23-0 | 23-4 | 23-8 | 23-11 | 24-3 | 24-7 | 24-10 |
| 575.00 | 24-1 | 24-5 | 24-10 | 25-2 | 25-6 | 25-10 | 26-2 | 26-6 | 26-10 | 27-2 |
| 600.00 | 26-3 | 26-8 | 27-0 | 27-5 | 27-9 | 28-2 | 28-6 | 28-11 | 29-3 | 29-7 |
| 625.00 | 28-6 | 28-11 | 29-4 | 29-9 | 30-2 | 30-7 | 30-11 | 31-4 | 31-9 | 32-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 |
| 275.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 |
| 300.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 |
| 325.00 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 |
| 350.00 | 9-1 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 |
| 375.00 | 10-5 | 10-7 | 10-8 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 | 11-7 | 11-8 |
| 400.00 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 |
| 425.00 | 13-4 | 13-7 | 13-9 | 13-11 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 |
| 450.00 | 15-0 | 15-2 | 15-5 | 15-8 | 15-10 | 16-1 | 16-3 | 16-6 | 16-8 | 16-10 |
| 475.00 | 16-8 | 16-11 | 17-2 | 17-5 | 17-8 | 17-11 | 18-1 | 18-4 | 18-7 | 18-9 |
| 500.00 | 18-6 | 18-9 | 19-0 | 19-4 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 |
| 525.00 | 20-5 | 20-8 | 21-0 | 21-3 | 21-7 | 21-10 | 22-2 | 22-5 | 22-8 | 23-0 |
| 550.00 | 22-5 | 22-9 | 23-1 | 23-4 | 23-8 | 24-0 | 24-4 | 24-7 | 24-11 | 25-3 |
| 575.00 | 24-6 | 24-10 | 25-2 | 25-7 | 25-11 | 26-3 | 26-7 | 26-11 | 27-3 | 27-7 |
| 600.00 | 26-8 | 27-1 | 27-5 | 27-10 | 28-2 | 28-7 | 28-11 | 29-4 | 29-8 | 30-0 |
| 625.00 | 28-11 | 29-4 | 29-9 | 30-2 | 30-7 | 31-0 | 31-5 | 31-10 | 32-2 | 32-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 0.62 | 2365 | 0.59 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 0.31 | 3214 | 0.3 | 3255 |
| 30 | 0 | 0 | 0 | 0.785 | 0.59 | 1651 | 0.53 | 1840 |
| 40 | 0 | 0 | 0 | 0.785 | 0.75 | 1315 | 0.66 | 1480 |
| 50 | 0 | 0 | 0 | 0.785 | 0.91 | 1081 | 0.81 | 1207 |
| 60 | 0 | 0 | 0 | 0.785 | 1.07 | 921 | 0.97 | 1014 |
| 70 | 0 | 0 | 0 | 0.785 | 1.22 | 807 | 1.12 | 877 |
| 80 | 0 | 0 | 0 | 0.785 | 1.36 | 723 | 1.26 | 777 |
| 90 | 0 | 0 | 0 | 0.785 | 1.49 | 660 | 1.4 | 702 |
| 100 | 0 | 0 | 0 | 0.785 | 1.57 | 627 | 1.53 | 643 |
| 110 | 0 | 0 | 0 | 0.785 | 1.64 | 600 | 1.64 | 600 |
| 120 | 0 | 0 | 0 | 0.785 | 1.7 | 576 | 1.7 | 576 |
| 130 | 0 | 0 | 0 | 0.785 | 1.77 | 555 | 1.77 | 555 |
| 167 | 0 | 0 | 0 | 0.785 | 2 | 491 | 2 | 491 |
| 212 | 0 | 0 | 0 | 0.785 | 2.26 | 435 | 2.26 | 435 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 2.54 | 2326 | 2.36 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 1.73 | 2274 | 1.55 | 2529 |
| 30 | 0 | 0 | 0 | 0.785 | 2.49 | 1577 | 2.25 | 1747 |
| 40 | 0 | 0 | 0 | 0.785 | 2.74 | 1434 | 2.49 | 1577 |
| 50 | 0 | 0 | 0 | 0.785 | 2.98 | 1319 | 2.73 | 1439 |
| 60 | 0 | 0 | 0 | 0.785 | 3.21 | 1225 | 2.96 | 1326 |
| 70 | 0 | 0 | 0 | 0.785 | 3.43 | 1146 | 3.19 | 1233 |
| 80 | 0 | 0 | 0 | 0.785 | 3.64 | 1080 | 3.4 | 1154 |
| 90 | 0 | 0 | 0 | 0.785 | 3.84 | 1023 | 3.61 | 1088 |
| 100 | 0 | 0 | 0 | 0.785 | 4.04 | 974 | 3.81 | 1031 |
| 110 | 0 | 0 | 0 | 0.785 | 4.19 | 939 | 4.01 | 982 |
| 120 | 0 | 0 | 0 | 0.785 | 4.29 | 916 | 4.19 | 938 |
| 130 | 0 | 0 | 0 | 0.785 | 4.4 | 895 | 4.37 | 900 |
| 167 | 0 | 0 | 0 | 0.785 | 4.78 | 823 | 4.78 | 823 |
| 212 | 0 | 0 | 0 | 0.785 | 5.21 | 755 | 5.21 | 755 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 5.6 | 2371 | 5.31 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 4.62 | 1915 | 4.26 | 2074 |
| 30 | 0 | 0 | 0 | 0.785 | 5.54 | 1596 | 5.18 | 1708 |
| 40 | 0 | 0 | 0 | 0.785 | 5.83 | 1517 | 5.47 | 1617 |
| 50 | 0 | 0 | 0 | 0.785 | 6.11 | 1448 | 5.75 | 1538 |
| 60 | 0 | 0 | 0 | 0.785 | 6.38 | 1387 | 6.03 | 1468 |
| 70 | 0 | 0 | 0 | 0.785 | 6.64 | 1332 | 6.29 | 1406 |
| 80 | 0 | 0 | 0 | 0.785 | 6.9 | 1283 | 6.55 | 1350 |
| 90 | 0 | 0 | 0 | 0.785 | 7.15 | 1239 | 6.81 | 1300 |
| 100 | 0 | 0 | 0 | 0.785 | 7.39 | 1198 | 7.05 | 1255 |
| 110 | 0 | 0 | 0 | 0.785 | 7.62 | 1162 | 7.29 | 1214 |
| 120 | 0 | 0 | 0 | 0.785 | 7.81 | 1134 | 7.53 | 1176 |
| 130 | 0 | 0 | 0 | 0.785 | 7.94 | 1115 | 7.76 | 1142 |
| 167 | 0 | 0 | 0 | 0.785 | 8.44 | 1050 | 8.44 | 1050 |
| 212 | 0 | 0 | 0 | 0.785 | 9 | 985 | 9 | 985 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 9.81 | 2409 | 9.45 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 8.76 | 1795 | 8.33 | 1889 |
| 30 | 0 | 0 | 0 | 0.785 | 9.74 | 1615 | 9.31 | 1691 |
| 40 | 0 | 0 | 0 | 0.785 | 10.05 | 1566 | 9.62 | 1636 |
| 50 | 0 | 0 | 0 | 0.785 | 10.36 | 1520 | 9.93 | 1586 |
| 60 | 0 | 0 | 0 | 0.785 | 10.65 | 1478 | 10.23 | 1539 |
| 70 | 0 | 0 | 0 | 0.785 | 10.94 | 1439 | 10.52 | 1497 |
| 80 | 0 | 0 | 0 | 0.785 | 11.22 | 1403 | 10.8 | 1457 |
| 90 | 0 | 0 | 0 | 0.785 | 11.5 | 1370 | 11.09 | 1421 |
| 100 | 0 | 0 | 0 | 0.785 | 11.77 | 1338 | 11.36 | 1386 |
| 110 | 0 | 0 | 0 | 0.785 | 12.04 | 1309 | 11.63 | 1354 |
| 120 | 0 | 0 | 0 | 0.785 | 12.3 | 1281 | 11.9 | 1324 |
| 130 | 0 | 0 | 0 | 0.785 | 12.49 | 1262 | 12.16 | 1296 |
| 167 | 0 | 0 | 0 | 0.785 | 13.07 | 1206 | 13.07 | 1206 |
| 212 | 0 | 0 | 0 | 0.785 | 13.73 | 1149 | 13.73 | 1149 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 15.19 | 2434 | 14.79 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 14.11 | 1744 | 13.63 | 1805 |
| 30 | 0 | 0 | 0 | 0.785 | 15.12 | 1629 | 14.64 | 1682 |
| 40 | 0 | 0 | 0 | 0.785 | 15.44 | 1595 | 14.96 | 1646 |
| 50 | 0 | 0 | 0 | 0.785 | 15.75 | 1563 | 15.28 | 1612 |
| 60 | 0 | 0 | 0 | 0.785 | 16.07 | 1533 | 15.59 | 1579 |
| 70 | 0 | 0 | 0 | 0.785 | 16.37 | 1505 | 15.9 | 1549 |
| 80 | 0 | 0 | 0 | 0.785 | 16.67 | 1478 | 16.2 | 1520 |
| 90 | 0 | 0 | 0 | 0.785 | 16.97 | 1452 | 16.5 | 1493 |
| 100 | 0 | 0 | 0 | 0.785 | 17.26 | 1428 | 16.8 | 1467 |
| 110 | 0 | 0 | 0 | 0.785 | 17.55 | 1404 | 17.09 | 1442 |
| 120 | 0 | 0 | 0 | 0.785 | 17.84 | 1382 | 17.38 | 1419 |
| 130 | 0 | 0 | 0 | 0.785 | 18.11 | 1361 | 17.66 | 1396 |
| 167 | 0 | 0 | 0 | 0.785 | 18.73 | 1317 | 18.67 | 1321 |
| 212 | 0 | 0 | 0 | 0.785 | 19.49 | 1267 | 19.49 | 1267 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 |
| 125.00 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 |
| 150.00 | 1-0 | 1-2 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 | 3-8 |
| 175.00 | 1-4 | 1-8 | 2-0 | 2-6 | 3-0 | 3-5 | 3-10 | 4-3 | 4-8 | 5-0 |
| 200.00 | 1-9 | 2-2 | 2-8 | 3-3 | 3-10 | 4-6 | 5-1 | 5-7 | 6-1 | 6-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 125.00 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 | 2-5 | 2-7 |
| 150.00 | 1-1 | 1-4 | 1-8 | 2-1 | 2-5 | 2-9 | 3-1 | 3-4 | 3-6 | 3-8 |
| 175.00 | 1-5 | 1-10 | 2-3 | 2-9 | 3-3 | 3-9 | 4-2 | 4-7 | 4-10 | 5-0 |
| 200.00 | 1-10 | 2-5 | 3-0 | 3-8 | 4-3 | 4-10 | 5-5 | 6-0 | 6-3 | 6-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.188

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 |
| 175.00 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 |
| 225.00 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 |
| 250.00 | 3-2 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 125.00 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 150.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 |
| 175.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 |
| 200.00 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 |
| 225.00 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 |
| 250.00 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 200.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 |
| 225.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 |
| 250.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 |
| 275.00 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 |
| 300.00 | 4-11 | 5-2 | 5-6 | 5-9 | 6-0 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 325.00 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 | 8-7 |
| 350.00 | 6-8 | 7-1 | 7-5 | 7-10 | 8-2 | 8-7 | 8-11 | 9-3 | 9-7 | 9-11 |
| 375.00 | 7-7 | 8-1 | 8-7 | 9-0 | 9-5 | 9-10 | 10-3 | 10-8 | 11-0 | 11-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 |
| 175.00 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 200.00 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-5 |
| 225.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 |
| 250.00 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 |
| 275.00 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-0 | 6-2 | 6-5 |
| 300.00 | 5-3 | 5-6 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 |
| 325.00 | 6-2 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 |
| 350.00 | 7-2 | 7-7 | 7-11 | 8-4 | 8-8 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 |
| 375.00 | 8-2 | 8-8 | 9-1 | 9-7 | 10-0 | 10-5 | 10-9 | 11-2 | 11-7 | 11-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 |
| 225.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 250.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 |
| 275.00 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 | 5-6 |
| 300.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-6 |
| 325.00 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 |
| 350.00 | 6-11 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 |
| 375.00 | 7-11 | 8-2 | 8-5 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 |
| 400.00 | 9-0 | 9-4 | 9-7 | 9-11 | 10-3 | 10-6 | 10-10 | 11-1 | 11-4 | 11-8 |
| 425.00 | 10-2 | 10-6 | 10-10 | 11-2 | 11-7 | 11-11 | 12-2 | 12-6 | 12-10 | 13-2 |
| 450.00 | 11-5 | 11-9 | 12-2 | 12-7 | 12-11 | 13-4 | 13-8 | 14-0 | 14-5 | 14-9 |
| 475.00 | 12-8 | 13-2 | 13-7 | 14-0 | 14-5 | 14-10 | 15-3 | 15-8 | 16-0 | 16-5 |
| 500.00 | 14-1 | 14-7 | 15-0 | 15-6 | 16-0 | 16-5 | 16-11 | 17-4 | 17-9 | 18-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 |
| 225.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 250.00 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 |
| 275.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 |
| 300.00 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 |
| 325.00 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 |
| 350.00 | 7-3 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 |
| 375.00 | 8-3 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 | 10-7 |
| 400.00 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 | 11-9 | 12-0 |
| 425.00 | 10-8 | 11-0 | 11-4 | 11-8 | 12-0 | 12-4 | 12-8 | 13-0 | 13-4 | 13-7 |
| 450.00 | 11-11 | 12-4 | 12-9 | 13-1 | 13-6 | 13-10 | 14-3 | 14-7 | 14-11 | 15-3 |
| 475.00 | 13-4 | 13-9 | 14-2 | 14-7 | 15-0 | 15-5 | 15-10 | 16-3 | 16-7 | 17-0 |
| 500.00 | 14-9 | 15-3 | 15-9 | 16-2 | 16-8 | 17-1 | 17-7 | 18-0 | 18-5 | 18-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 |
| 275.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 |
| 300.00 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 |
| 325.00 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 |
| 350.00 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 |
| 375.00 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 |
| 400.00 | 9-2 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-4 | 10-7 | 10-9 | 10-11 |
| 425.00 | 10-4 | 10-7 | 10-10 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 | 12-2 | 12-4 |
| 450.00 | 11-7 | 11-10 | 12-1 | 12-4 | 12-8 | 12-11 | 13-1 | 13-4 | 13-7 | 13-10 |
| 475.00 | 12-11 | 13-3 | 13-6 | 13-9 | 14-1 | 14-4 | 14-7 | 14-11 | 15-2 | 15-5 |
| 500.00 | 14-4 | 14-8 | 15-0 | 15-3 | 15-7 | 15-11 | 16-2 | 16-6 | 16-10 | 17-1 |
| 525.00 | 15-9 | 16-2 | 16-6 | 16-10 | 17-2 | 17-6 | 17-10 | 18-2 | 18-6 | 18-10 |
| 550.00 | 17-4 | 17-9 | 18-1 | 18-6 | 18-10 | 19-3 | 19-7 | 20-0 | 20-4 | 20-8 |
| 575.00 | 18-11 | 19-4 | 19-10 | 20-3 | 20-8 | 21-0 | 21-5 | 21-10 | 22-3 | 22-7 |
| 600.00 | 20-7 | 21-1 | 21-7 | 22-0 | 22-6 | 22-11 | 23-4 | 23-9 | 24-2 | 24-8 |
| 625.00 | 22-4 | 22-11 | 23-5 | 23-11 | 24-5 | 24-10 | 25-4 | 25-10 | 26-3 | 26-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 275.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 |
| 300.00 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 |
| 325.00 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 |
| 350.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 | 8-4 | 8-5 | 8-7 |
| 375.00 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 |
| 400.00 | 9-6 | 9-8 | 9-11 | 10-1 | 10-3 | 10-6 | 10-8 | 10-10 | 11-1 | 11-3 |
| 425.00 | 10-8 | 10-11 | 11-2 | 11-5 | 11-7 | 11-10 | 12-1 | 12-3 | 12-6 | 12-8 |
| 450.00 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 |
| 475.00 | 13-4 | 13-8 | 13-11 | 14-3 | 14-6 | 14-9 | 15-1 | 15-4 | 15-7 | 15-10 |
| 500.00 | 14-9 | 15-1 | 15-5 | 15-9 | 16-1 | 16-4 | 16-8 | 17-0 | 17-3 | 17-7 |
| 525.00 | 16-4 | 16-8 | 17-0 | 17-4 | 17-9 | 18-1 | 18-5 | 18-9 | 19-0 | 19-4 |
| 550.00 | 17-11 | 18-4 | 18-8 | 19-1 | 19-5 | 19-10 | 20-2 | 20-7 | 20-11 | 21-3 |
| 575.00 | 19-7 | 20-0 | 20-5 | 20-10 | 21-3 | 21-8 | 22-1 | 22-5 | 22-10 | 23-3 |
| 600.00 | 21-4 | 21-9 | 22-3 | 22-8 | 23-2 | 23-7 | 24-0 | 24-5 | 24-11 | 25-4 |
| 625.00 | 23-1 | 23-8 | 24-2 | 24-8 | 25-1 | 25-7 | 26-1 | 26-6 | 27-0 | 27-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 0.53 | 2788 | 0.49 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 0.26 | 3770 | 0.26 | 3846 |
| 30 | 0 | 0 | 0 | 0.785 | 0.48 | 2049 | 0.42 | 2347 |
| 40 | 0 | 0 | 0 | 0.785 | 0.61 | 1614 | 0.52 | 1902 |
| 50 | 0 | 0 | 0 | 0.785 | 0.76 | 1289 | 0.64 | 1527 |
| 60 | 0 | 0 | 0 | 0.785 | 0.92 | 1063 | 0.79 | 1242 |
| 70 | 0 | 0 | 0 | 0.785 | 1.08 | 908 | 0.95 | 1037 |
| 80 | 0 | 0 | 0 | 0.785 | 1.23 | 798 | 1.1 | 893 |
| 90 | 0 | 0 | 0 | 0.785 | 1.37 | 717 | 1.24 | 789 |
| 100 | 0 | 0 | 0 | 0.785 | 1.44 | 680 | 1.38 | 711 |
| 110 | 0 | 0 | 0 | 0.785 | 1.51 | 649 | 1.51 | 651 |
| 120 | 0 | 0 | 0 | 0.785 | 1.59 | 619 | 1.59 | 619 |
| 130 | 0 | 0 | 0 | 0.785 | 1.66 | 593 | 1.66 | 593 |
| 167 | 0 | 0 | 0 | 0.785 | 1.9 | 519 | 1.9 | 519 |
| 212 | 0 | 0 | 0 | 0.785 | 2.16 | 454 | 2.16 | 454 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 2.17 | 2720 | 1.97 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 1.35 | 2899 | 1.2 | 3272 |
| 30 | 0 | 0 | 0 | 0.785 | 2.07 | 1897 | 1.78 | 2201 |
| 40 | 0 | 0 | 0 | 0.785 | 2.33 | 1687 | 2.02 | 1944 |
| 50 | 0 | 0 | 0 | 0.785 | 2.58 | 1522 | 2.26 | 1735 |
| 60 | 0 | 0 | 0 | 0.785 | 2.83 | 1390 | 2.51 | 1566 |
| 70 | 0 | 0 | 0 | 0.785 | 3.06 | 1283 | 2.75 | 1430 |
| 80 | 0 | 0 | 0 | 0.785 | 3.29 | 1195 | 2.98 | 1318 |
| 90 | 0 | 0 | 0 | 0.785 | 3.5 | 1121 | 3.2 | 1226 |
| 100 | 0 | 0 | 0 | 0.785 | 3.71 | 1059 | 3.42 | 1149 |
| 110 | 0 | 0 | 0 | 0.785 | 3.87 | 1016 | 3.63 | 1083 |
| 120 | 0 | 0 | 0 | 0.785 | 3.98 | 988 | 3.83 | 1027 |
| 130 | 0 | 0 | 0 | 0.785 | 4.09 | 962 | 4.02 | 978 |
| 167 | 0 | 0 | 0 | 0.785 | 4.49 | 876 | 4.49 | 876 |
| 212 | 0 | 0 | 0 | 0.785 | 4.94 | 797 | 4.94 | 797 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 4.79 | 2773 | 4.42 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 3.66 | 2413 | 3.24 | 2726 |
| 30 | 0 | 0 | 0 | 0.785 | 4.66 | 1898 | 4.18 | 2114 |
| 40 | 0 | 0 | 0 | 0.785 | 4.97 | 1778 | 4.5 | 1966 |
| 50 | 0 | 0 | 0 | 0.785 | 5.28 | 1675 | 4.8 | 1840 |
| 60 | 0 | 0 | 0 | 0.785 | 5.58 | 1586 | 5.11 | 1732 |
| 70 | 0 | 0 | 0 | 0.785 | 5.87 | 1508 | 5.4 | 1638 |
| 80 | 0 | 0 | 0 | 0.785 | 6.14 | 1440 | 5.69 | 1556 |
| 90 | 0 | 0 | 0 | 0.785 | 6.41 | 1379 | 5.96 | 1483 |
| 100 | 0 | 0 | 0 | 0.785 | 6.68 | 1325 | 6.23 | 1419 |
| 110 | 0 | 0 | 0 | 0.785 | 6.93 | 1277 | 6.5 | 1362 |
| 120 | 0 | 0 | 0 | 0.785 | 7.14 | 1240 | 6.75 | 1311 |
| 130 | 0 | 0 | 0 | 0.785 | 7.28 | 1216 | 7 | 1265 |
| 167 | 0 | 0 | 0 | 0.785 | 7.8 | 1135 | 7.8 | 1135 |
| 212 | 0 | 0 | 0 | 0.785 | 8.39 | 1056 | 8.39 | 1056 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 8.35 | 2829 | 7.87 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 7.09 | 2217 | 6.5 | 2418 |
| 30 | 0 | 0 | 0 | 0.785 | 8.2 | 1919 | 7.6 | 2069 |
| 40 | 0 | 0 | 0 | 0.785 | 8.55 | 1841 | 7.95 | 1978 |
| 50 | 0 | 0 | 0 | 0.785 | 8.89 | 1770 | 8.29 | 1896 |
| 60 | 0 | 0 | 0 | 0.785 | 9.22 | 1707 | 8.63 | 1822 |
| 70 | 0 | 0 | 0 | 0.785 | 9.54 | 1649 | 8.96 | 1756 |
| 80 | 0 | 0 | 0 | 0.785 | 9.86 | 1597 | 9.28 | 1695 |
| 90 | 0 | 0 | 0 | 0.785 | 10.16 | 1549 | 9.6 | 1640 |
| 100 | 0 | 0 | 0 | 0.785 | 10.46 | 1505 | 9.9 | 1589 |
| 110 | 0 | 0 | 0 | 0.785 | 10.76 | 1464 | 10.2 | 1543 |
| 120 | 0 | 0 | 0 | 0.785 | 11.04 | 1426 | 10.5 | 1500 |
| 130 | 0 | 0 | 0 | 0.785 | 11.28 | 1397 | 10.79 | 1460 |
| 167 | 0 | 0 | 0 | 0.785 | 11.87 | 1327 | 11.8 | 1335 |
| 212 | 0 | 0 | 0 | 0.785 | 12.59 | 1252 | 12.59 | 1252 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.179 | 12.87 | 2870 | 12.31 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 11.54 | 2130 | 10.86 | 2264 |
| 30 | 0 | 0 | 0 | 0.785 | 12.7 | 1937 | 12.02 | 2046 |
| 40 | 0 | 0 | 0 | 0.785 | 13.07 | 1882 | 12.39 | 1984 |
| 50 | 0 | 0 | 0 | 0.785 | 13.43 | 1832 | 12.76 | 1928 |
| 60 | 0 | 0 | 0 | 0.785 | 13.78 | 1785 | 13.12 | 1875 |
| 70 | 0 | 0 | 0 | 0.785 | 14.13 | 1742 | 13.47 | 1827 |
| 80 | 0 | 0 | 0 | 0.785 | 14.47 | 1701 | 13.81 | 1781 |
| 90 | 0 | 0 | 0 | 0.785 | 14.81 | 1663 | 14.15 | 1739 |
| 100 | 0 | 0 | 0 | 0.785 | 15.13 | 1627 | 14.49 | 1699 |
| 110 | 0 | 0 | 0 | 0.785 | 15.46 | 1593 | 14.82 | 1662 |
| 120 | 0 | 0 | 0 | 0.785 | 15.77 | 1561 | 15.14 | 1627 |
| 130 | 0 | 0 | 0 | 0.785 | 16.08 | 1531 | 15.45 | 1593 |
| 167 | 0 | 0 | 0 | 0.785 | 16.79 | 1467 | 16.58 | 1486 |
| 212 | 0 | 0 | 0 | 0.785 | 17.61 | 1400 | 17.61 | 1400 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 |
| 125.00 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 |
| 150.00 | 0-9 | 0-11 | 1-2 | 1-5 | 1-9 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 |
| 175.00 | 1-1 | 1-3 | 1-7 | 2-0 | 2-5 | 2-11 | 3-4 | 3-10 | 4-3 | 4-7 |
| 200.00 | 1-5 | 1-8 | 2-1 | 2-7 | 3-2 | 3-9 | 4-5 | 5-0 | 5-6 | 6-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-3 | 2-4 |
| 150.00 | 0-10 | 1-1 | 1-4 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-3 | 3-5 |
| 175.00 | 1-2 | 1-6 | 1-10 | 2-4 | 2-10 | 3-4 | 3-9 | 4-2 | 4-5 | 4-8 |
| 200.00 | 1-6 | 1-11 | 2-5 | 3-1 | 3-8 | 4-4 | 4-11 | 5-6 | 5-9 | 6-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-2 | 1-4 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 200.00 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 |
| 225.00 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 |
| 250.00 | 2-5 | 2-9 | 3-2 | 3-6 | 3-11 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 175.00 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 200.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 3-10 |
| 225.00 | 2-4 | 2-7 | 2-11 | 3-3 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 |
| 250.00 | 2-10 | 3-3 | 3-8 | 4-0 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 | 6-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.197

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 |
| 200.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 |
| 225.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 250.00 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 |
| 275.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 |
| 300.00 | 3-10 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 |
| 325.00 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-7 |
| 350.00 | 5-3 | 5-8 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-1 | 8-6 | 8-10 |
| 375.00 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-5 | 8-11 | 9-4 | 9-9 | 10-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 |
| 175.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 200.00 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 |
| 225.00 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 | 3-11 |
| 250.00 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 |
| 275.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 |
| 300.00 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 | 6-2 | 6-5 | 6-8 | 6-11 |
| 325.00 | 5-1 | 5-6 | 5-10 | 6-2 | 6-7 | 6-11 | 7-3 | 7-6 | 7-10 | 8-2 |
| 350.00 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-4 | 8-9 | 9-1 | 9-5 |
| 375.00 | 6-9 | 7-3 | 7-9 | 8-3 | 8-9 | 9-2 | 9-7 | 10-0 | 10-5 | 10-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 225.00 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 |
| 250.00 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 |
| 275.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-10 |
| 300.00 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-9 |
| 325.00 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 |
| 350.00 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 |
| 375.00 | 6-4 | 6-8 | 7-0 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 9-0 |
| 400.00 | 7-3 | 7-7 | 7-11 | 8-4 | 8-8 | 9-0 | 9-3 | 9-7 | 9-11 | 10-2 |
| 425.00 | 8-2 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 | 10-6 | 10-10 | 11-2 | 11-6 |
| 450.00 | 9-2 | 9-7 | 10-1 | 10-6 | 10-11 | 11-4 | 11-9 | 12-2 | 12-6 | 12-11 |
| 475.00 | 10-2 | 10-9 | 11-3 | 11-8 | 12-2 | 12-8 | 13-1 | 13-6 | 14-0 | 14-5 |
| 500.00 | 11-4 | 11-10 | 12-5 | 13-0 | 13-6 | 14-0 | 14-6 | 15-0 | 15-6 | 15-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 |
| 225.00 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 |
| 250.00 | 3-1 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 |
| 275.00 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 |
| 300.00 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-1 |
| 325.00 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 |
| 350.00 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 |
| 375.00 | 6-11 | 7-2 | 7-6 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 |
| 400.00 | 7-10 | 8-2 | 8-7 | 8-11 | 9-3 | 9-6 | 9-10 | 10-2 | 10-6 | 10-9 |
| 425.00 | 8-10 | 9-3 | 9-8 | 10-0 | 10-5 | 10-9 | 11-2 | 11-6 | 11-10 | 12-2 |
| 450.00 | 9-11 | 10-4 | 10-10 | 11-3 | 11-8 | 12-1 | 12-6 | 12-10 | 13-3 | 13-7 |
| 475.00 | 11-1 | 11-7 | 12-1 | 12-6 | 13-0 | 13-5 | 13-11 | 14-4 | 14-9 | 15-2 |
| 500.00 | 12-3 | 12-10 | 13-4 | 13-11 | 14-5 | 14-11 | 15-5 | 15-11 | 16-4 | 16-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 275.00 | 3-6 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 |
| 300.00 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 |
| 325.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 |
| 350.00 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 |
| 375.00 | 6-7 | 6-9 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 | 7-11 | 8-2 | 8-4 |
| 400.00 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-7 | 8-10 | 9-1 | 9-3 | 9-6 |
| 425.00 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-8 |
| 450.00 | 9-5 | 9-9 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 | 11-6 | 11-9 | 12-0 |
| 475.00 | 10-6 | 10-10 | 11-2 | 11-6 | 11-10 | 12-2 | 12-6 | 12-9 | 13-1 | 13-4 |
| 500.00 | 11-8 | 12-0 | 12-5 | 12-9 | 13-1 | 13-6 | 13-10 | 14-2 | 14-6 | 14-10 |
| 525.00 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-10 | 15-3 | 15-7 | 16-0 | 16-4 |
| 550.00 | 14-1 | 14-7 | 15-0 | 15-5 | 15-10 | 16-4 | 16-9 | 17-2 | 17-6 | 17-11 |
| 575.00 | 15-5 | 15-11 | 16-5 | 16-11 | 17-4 | 17-10 | 18-3 | 18-9 | 19-2 | 19-7 |
| 600.00 | 16-9 | 17-4 | 17-10 | 18-5 | 18-11 | 19-5 | 19-11 | 20-5 | 20-10 | 21-4 |
| 625.00 | 18-2 | 18-9 | 19-4 | 19-11 | 20-6 | 21-1 | 21-7 | 22-2 | 22-8 | 23-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 |
| 300.00 | 4-5 | 4-7 | 4-8 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 |
| 325.00 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 |
| 350.00 | 6-0 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 |
| 375.00 | 6-11 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-2 | 8-4 | 8-6 | 8-8 |
| 400.00 | 7-11 | 8-1 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-6 | 9-8 | 9-11 |
| 425.00 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 |
| 450.00 | 10-0 | 10-3 | 10-7 | 10-11 | 11-2 | 11-5 | 11-9 | 12-0 | 12-3 | 12-6 |
| 475.00 | 11-1 | 11-6 | 11-10 | 12-1 | 12-5 | 12-9 | 13-1 | 13-4 | 13-8 | 13-11 |
| 500.00 | 12-4 | 12-8 | 13-1 | 13-5 | 13-9 | 14-2 | 14-6 | 14-10 | 15-2 | 15-5 |
| 525.00 | 13-7 | 14-0 | 14-5 | 14-10 | 15-2 | 15-7 | 15-11 | 16-4 | 16-8 | 17-1 |
| 550.00 | 14-11 | 15-4 | 15-10 | 16-3 | 16-8 | 17-1 | 17-6 | 17-11 | 18-4 | 18-8 |
| 575.00 | 16-4 | 16-10 | 17-3 | 17-9 | 18-3 | 18-8 | 19-2 | 19-7 | 20-0 | 20-5 |
| 600.00 | 17-9 | 18-4 | 18-10 | 19-4 | 19-10 | 20-4 | 20-10 | 21-4 | 21-10 | 22-3 |
| 625.00 | 19-3 | 19-10 | 20-5 | 21-0 | 21-7 | 22-1 | 22-8 | 23-2 | 23-8 | 24-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 2.13 | 1000 | 2.13 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 1.73 | 568 | 1.73 | 569 |
| 30 | 0 | 0 | 0 | 0.785 | 1.84 | 533 | 1.84 | 534 |
| 40 | 0 | 0 | 0 | 0.785 | 1.95 | 504 | 1.94 | 506 |
| 50 | 0 | 0 | 0 | 0.785 | 2.05 | 480 | 2.04 | 481 |
| 60 | 0 | 0 | 0 | 0.785 | 2.14 | 458 | 2.14 | 460 |
| 70 | 0 | 0 | 0 | 0.785 | 2.24 | 440 | 2.23 | 441 |
| 80 | 0 | 0 | 0 | 0.785 | 2.32 | 423 | 2.32 | 424 |
| 90 | 0 | 0 | 0 | 0.785 | 2.4 | 410 | 2.4 | 410 |
| 100 | 0 | 0 | 0 | 0.785 | 2.45 | 401 | 2.45 | 401 |
| 110 | 0 | 0 | 0 | 0.785 | 2.5 | 393 | 2.5 | 393 |
| 120 | 0 | 0 | 0 | 0.785 | 2.55 | 385 | 2.55 | 385 |
| 130 | 0 | 0 | 0 | 0.785 | 2.6 | 378 | 2.6 | 378 |
| 167 | 0 | 0 | 0 | 0.785 | 2.78 | 354 | 2.78 | 354 |
| 212 | 0 | 0 | 0 | 0.785 | 2.98 | 330 | 2.98 | 330 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 8.55 | 1000 | 8.55 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 8.17 | 484 | 8.16 | 484 |
| 30 | 0 | 0 | 0 | 0.785 | 8.28 | 477 | 8.27 | 478 |
| 40 | 0 | 0 | 0 | 0.785 | 8.38 | 472 | 8.37 | 472 |
| 50 | 0 | 0 | 0 | 0.785 | 8.48 | 466 | 8.47 | 467 |
| 60 | 0 | 0 | 0 | 0.785 | 8.57 | 461 | 8.57 | 462 |
| 70 | 0 | 0 | 0 | 0.785 | 8.67 | 456 | 8.66 | 457 |
| 80 | 0 | 0 | 0 | 0.785 | 8.76 | 451 | 8.76 | 452 |
| 90 | 0 | 0 | 0 | 0.785 | 8.86 | 447 | 8.85 | 447 |
| 100 | 0 | 0 | 0 | 0.785 | 8.92 | 444 | 8.92 | 444 |
| 110 | 0 | 0 | 0 | 0.785 | 8.98 | 441 | 8.98 | 441 |
| 120 | 0 | 0 | 0 | 0.785 | 9.04 | 438 | 9.04 | 438 |
| 130 | 0 | 0 | 0 | 0.785 | 9.1 | 435 | 9.1 | 435 |
| 167 | 0 | 0 | 0 | 0.785 | 9.31 | 425 | 9.31 | 425 |
| 212 | 0 | 0 | 0 | 0.785 | 9.57 | 414 | 9.57 | 414 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 19.43 | 1000 | 19.43 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 19.04 | 471 | 19.04 | 471 |
| 30 | 0 | 0 | 0 | 0.785 | 19.15 | 469 | 19.15 | 469 |
| 40 | 0 | 0 | 0 | 0.785 | 19.25 | 466 | 19.25 | 466 |
| 50 | 0 | 0 | 0 | 0.785 | 19.35 | 464 | 19.34 | 464 |
| 60 | 0 | 0 | 0 | 0.785 | 19.45 | 462 | 19.44 | 462 |
| 70 | 0 | 0 | 0 | 0.785 | 19.54 | 460 | 19.54 | 460 |
| 80 | 0 | 0 | 0 | 0.785 | 19.64 | 457 | 19.63 | 458 |
| 90 | 0 | 0 | 0 | 0.785 | 19.74 | 455 | 19.73 | 455 |
| 100 | 0 | 0 | 0 | 0.785 | 19.8 | 454 | 19.8 | 454 |
| 110 | 0 | 0 | 0 | 0.785 | 19.86 | 452 | 19.86 | 452 |
| 120 | 0 | 0 | 0 | 0.785 | 19.92 | 451 | 19.92 | 451 |
| 130 | 0 | 0 | 0 | 0.785 | 19.99 | 450 | 19.99 | 450 |
| 167 | 0 | 0 | 0 | 0.785 | 20.21 | 445 | 20.21 | 445 |
| 212 | 0 | 0 | 0 | 0.785 | 20.48 | 439 | 20.48 | 439 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 35.01 | 1000 | 35.01 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 34.63 | 467 | 34.62 | 467 |
| 30 | 0 | 0 | 0 | 0.785 | 34.74 | 466 | 34.73 | 466 |
| 40 | 0 | 0 | 0 | 0.785 | 34.84 | 464 | 34.83 | 464 |
| 50 | 0 | 0 | 0 | 0.785 | 34.93 | 463 | 34.93 | 463 |
| 60 | 0 | 0 | 0 | 0.785 | 35.03 | 462 | 35.02 | 462 |
| 70 | 0 | 0 | 0 | 0.785 | 35.13 | 461 | 35.12 | 461 |
| 80 | 0 | 0 | 0 | 0.785 | 35.23 | 460 | 35.22 | 460 |
| 90 | 0 | 0 | 0 | 0.785 | 35.32 | 458 | 35.31 | 458 |
| 100 | 0 | 0 | 0 | 0.785 | 35.39 | 458 | 35.39 | 458 |
| 110 | 0 | 0 | 0 | 0.785 | 35.45 | 457 | 35.45 | 457 |
| 120 | 0 | 0 | 0 | 0.785 | 35.51 | 456 | 35.51 | 456 |
| 130 | 0 | 0 | 0 | 0.785 | 35.58 | 455 | 35.58 | 455 |
| 167 | 0 | 0 | 0 | 0.785 | 35.81 | 453 | 35.81 | 453 |
| 212 | 0 | 0 | 0 | 0.785 | 36.08 | 449 | 36.08 | 449 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 55.73 | 1000 | 55.73 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 55.34 | 465 | 55.34 | 465 |
| 30 | 0 | 0 | 0 | 0.785 | 55.45 | 464 | 55.45 | 464 |
| 40 | 0 | 0 | 0 | 0.785 | 55.55 | 464 | 55.54 | 464 |
| 50 | 0 | 0 | 0 | 0.785 | 55.65 | 463 | 55.64 | 463 |
| 60 | 0 | 0 | 0 | 0.785 | 55.74 | 462 | 55.74 | 462 |
| 70 | 0 | 0 | 0 | 0.785 | 55.84 | 461 | 55.83 | 461 |
| 80 | 0 | 0 | 0 | 0.785 | 55.94 | 461 | 55.93 | 461 |
| 90 | 0 | 0 | 0 | 0.785 | 56.03 | 460 | 56.02 | 460 |
| 100 | 0 | 0 | 0 | 0.785 | 56.1 | 459 | 56.1 | 459 |
| 110 | 0 | 0 | 0 | 0.785 | 56.16 | 459 | 56.16 | 459 |
| 120 | 0 | 0 | 0 | 0.785 | 56.23 | 458 | 56.23 | 458 |
| 130 | 0 | 0 | 0 | 0.785 | 56.29 | 458 | 56.29 | 458 |
| 167 | 0 | 0 | 0 | 0.785 | 56.52 | 456 | 56.52 | 456 |
| 212 | 0 | 0 | 0 | 0.785 | 56.8 | 454 | 56.8 | 454 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 |
| 125.00 | 2-8 | 2-11 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 |
| 150.00 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-6 | 5-8 |
| 175.00 | 5-3 | 5-8 | 5-11 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-6 | 7-8 |
| 200.00 | 6-11 | 7-4 | 7-9 | 8-2 | 8-7 | 8-11 | 9-3 | 9-8 | 9-10 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 |
| 125.00 | 2-8 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 |
| 150.00 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-6 | 5-8 |
| 175.00 | 5-4 | 5-8 | 6-0 | 6-3 | 6-7 | 6-10 | 7-2 | 7-4 | 7-6 | 7-8 |
| 200.00 | 6-11 | 7-5 | 7-10 | 8-2 | 8-7 | 9-0 | 9-4 | 9-8 | 9-10 | 10-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 |
| 125.00 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 |
| 150.00 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 |
| 175.00 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 |
| 200.00 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 |
| 225.00 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 | 11-4 |
| 250.00 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 13-11 | 14-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 |
| 125.00 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 |
| 150.00 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 |
| 175.00 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 |
| 200.00 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 |
| 225.00 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-4 |
| 250.00 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-10 | 13-11 | 14-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 4-11 |
| 175.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 |
| 200.00 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 |
| 225.00 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 |
| 250.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-9 |
| 275.00 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 |
| 300.00 | 19-0 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-8 | 19-9 | 19-10 | 19-10 |
| 325.00 | 22-4 | 22-6 | 22-7 | 22-9 | 22-10 | 22-11 | 23-1 | 23-2 | 23-3 | 23-4 |
| 350.00 | 26-0 | 26-1 | 26-3 | 26-5 | 26-6 | 26-8 | 26-9 | 26-11 | 27-0 | 27-1 |
| 375.00 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-7 | 30-9 | 30-11 | 31-0 | 31-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 4-11 |
| 175.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 |
| 200.00 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 |
| 225.00 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 |
| 250.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-9 |
| 275.00 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 |
| 300.00 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-7 | 19-8 | 19-9 | 19-10 | 19-10 |
| 325.00 | 22-4 | 22-6 | 22-7 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 |
| 350.00 | 26-0 | 26-1 | 26-3 | 26-5 | 26-6 | 26-8 | 26-9 | 26-11 | 27-0 | 27-1 |
| 375.00 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-8 | 30-9 | 30-11 | 31-0 | 31-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 |
| 225.00 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-2 |
| 250.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 |
| 275.00 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 |
| 300.00 | 19-5 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 |
| 325.00 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 |
| 350.00 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-0 | 27-1 |
| 375.00 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-1 |
| 400.00 | 34-7 | 34-9 | 34-10 | 34-11 | 35-0 | 35-1 | 35-3 | 35-4 | 35-5 | 35-5 |
| 425.00 | 39-2 | 39-3 | 39-4 | 39-6 | 39-7 | 39-8 | 39-10 | 39-11 | 40-0 | 40-1 |
| 450.00 | 43-11 | 44-1 | 44-2 | 44-4 | 44-5 | 44-7 | 44-8 | 44-10 | 44-11 | 45-0 |
| 475.00 | 49-0 | 49-2 | 49-4 | 49-5 | 49-7 | 49-9 | 49-10 | 50-0 | 50-1 | 50-2 |
| 500.00 | 54-5 | 54-7 | 54-9 | 54-11 | 55-0 | 55-2 | 55-4 | 55-6 | 55-7 | 55-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 |
| 225.00 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-2 |
| 250.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 |
| 275.00 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 |
| 300.00 | 19-5 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 |
| 325.00 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 |
| 350.00 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-0 | 27-1 |
| 375.00 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-1 |
| 400.00 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-2 | 35-3 | 35-4 | 35-5 | 35-5 |
| 425.00 | 39-2 | 39-3 | 39-5 | 39-6 | 39-7 | 39-8 | 39-10 | 39-11 | 40-0 | 40-1 |
| 450.00 | 43-11 | 44-1 | 44-2 | 44-4 | 44-5 | 44-7 | 44-8 | 44-10 | 44-11 | 45-0 |
| 475.00 | 49-0 | 49-2 | 49-4 | 49-6 | 49-7 | 49-9 | 49-11 | 50-0 | 50-1 | 50-2 |
| 500.00 | 54-5 | 54-7 | 54-9 | 54-11 | 55-1 | 55-2 | 55-4 | 55-6 | 55-7 | 55-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 |
| 275.00 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-10 |
| 300.00 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-0 |
| 325.00 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 | 23-6 |
| 350.00 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-4 |
| 375.00 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-2 | 31-3 | 31-4 | 31-4 | 31-4 |
| 400.00 | 35-3 | 35-3 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 | 35-8 | 35-9 |
| 425.00 | 39-10 | 39-11 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-4 | 40-5 |
| 450.00 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 | 45-4 |
| 475.00 | 49-10 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-7 |
| 500.00 | 55-4 | 55-5 | 55-7 | 55-8 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-2 |
| 525.00 | 61-1 | 61-3 | 61-4 | 61-5 | 61-7 | 61-8 | 61-9 | 61-10 | 61-11 | 62-0 |
| 550.00 | 67-2 | 67-4 | 67-5 | 67-7 | 67-8 | 67-9 | 67-11 | 68-0 | 68-1 | 68-2 |
| 575.00 | 73-7 | 73-8 | 73-10 | 74-0 | 74-1 | 74-3 | 74-4 | 74-6 | 74-7 | 74-8 |
| 600.00 | 80-3 | 80-5 | 80-7 | 80-8 | 80-10 | 81-0 | 81-1 | 81-3 | 81-4 | 81-5 |
| 625.00 | 87-3 | 87-5 | 87-7 | 87-9 | 87-11 | 88-0 | 88-2 | 88-4 | 88-6 | 88-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 |
| 275.00 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-10 |
| 300.00 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-0 |
| 325.00 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 | 23-6 |
| 350.00 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-4 |
| 375.00 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-2 | 31-3 | 31-4 | 31-4 | 31-4 |
| 400.00 | 35-3 | 35-3 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 | 35-8 | 35-9 |
| 425.00 | 39-10 | 39-11 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-4 | 40-5 |
| 450.00 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 | 45-4 |
| 475.00 | 49-10 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-7 |
| 500.00 | 55-4 | 55-5 | 55-7 | 55-8 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-2 |
| 525.00 | 61-1 | 61-3 | 61-4 | 61-5 | 61-7 | 61-8 | 61-9 | 61-11 | 61-11 | 62-0 |
| 550.00 | 67-2 | 67-4 | 67-5 | 67-7 | 67-8 | 67-10 | 67-11 | 68-0 | 68-1 | 68-2 |
| 575.00 | 73-7 | 73-9 | 73-10 | 74-0 | 74-1 | 74-3 | 74-4 | 74-6 | 74-7 | 74-8 |
| 600.00 | 80-3 | 80-5 | 80-7 | 80-8 | 80-10 | 81-0 | 81-1 | 81-3 | 81-4 | 81-5 |
| 625.00 | 87-3 | 87-5 | 87-7 | 87-9 | 87-11 | 88-1 | 88-2 | 88-4 | 88-6 | 88-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 1.44 | 1477 | 1.42 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 0.81 | 1209 | 0.78 | 1255 |
| 30 | 0 | 0 | 0 | 0.785 | 0.97 | 1009 | 0.94 | 1048 |
| 40 | 0 | 0 | 0 | 0.785 | 1.13 | 870 | 1.09 | 901 |
| 50 | 0 | 0 | 0 | 0.785 | 1.27 | 770 | 1.23 | 795 |
| 60 | 0 | 0 | 0 | 0.785 | 1.41 | 696 | 1.37 | 716 |
| 70 | 0 | 0 | 0 | 0.785 | 1.54 | 638 | 1.5 | 655 |
| 80 | 0 | 0 | 0 | 0.785 | 1.66 | 592 | 1.62 | 606 |
| 90 | 0 | 0 | 0 | 0.785 | 1.77 | 554 | 1.74 | 566 |
| 100 | 0 | 0 | 0 | 0.785 | 1.85 | 531 | 1.84 | 533 |
| 110 | 0 | 0 | 0 | 0.785 | 1.91 | 514 | 1.91 | 514 |
| 120 | 0 | 0 | 0 | 0.785 | 1.97 | 498 | 1.97 | 498 |
| 130 | 0 | 0 | 0 | 0.785 | 2.03 | 483 | 2.03 | 483 |
| 167 | 0 | 0 | 0 | 0.785 | 2.25 | 438 | 2.25 | 438 |
| 212 | 0 | 0 | 0 | 0.785 | 2.49 | 396 | 2.48 | 396 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 5.71 | 1493 | 5.68 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 5.08 | 775 | 5.04 | 781 |
| 30 | 0 | 0 | 0 | 0.785 | 5.23 | 752 | 5.19 | 758 |
| 40 | 0 | 0 | 0 | 0.785 | 5.38 | 731 | 5.34 | 737 |
| 50 | 0 | 0 | 0 | 0.785 | 5.53 | 712 | 5.49 | 717 |
| 60 | 0 | 0 | 0 | 0.785 | 5.67 | 694 | 5.63 | 699 |
| 70 | 0 | 0 | 0 | 0.785 | 5.82 | 677 | 5.77 | 682 |
| 80 | 0 | 0 | 0 | 0.785 | 5.95 | 662 | 5.91 | 667 |
| 90 | 0 | 0 | 0 | 0.785 | 6.09 | 647 | 6.04 | 652 |
| 100 | 0 | 0 | 0 | 0.785 | 6.22 | 633 | 6.18 | 638 |
| 110 | 0 | 0 | 0 | 0.785 | 6.31 | 625 | 6.3 | 625 |
| 120 | 0 | 0 | 0 | 0.785 | 6.39 | 617 | 6.39 | 617 |
| 130 | 0 | 0 | 0 | 0.785 | 6.47 | 610 | 6.47 | 610 |
| 167 | 0 | 0 | 0 | 0.785 | 6.75 | 584 | 6.75 | 584 |
| 212 | 0 | 0 | 0 | 0.785 | 7.09 | 556 | 7.09 | 556 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 12.86 | 1497 | 12.83 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 12.24 | 727 | 12.2 | 729 |
| 30 | 0 | 0 | 0 | 0.785 | 12.39 | 718 | 12.34 | 720 |
| 40 | 0 | 0 | 0 | 0.785 | 12.53 | 710 | 12.49 | 712 |
| 50 | 0 | 0 | 0 | 0.785 | 12.68 | 701 | 12.64 | 704 |
| 60 | 0 | 0 | 0 | 0.785 | 12.83 | 694 | 12.78 | 696 |
| 70 | 0 | 0 | 0 | 0.785 | 12.97 | 686 | 12.93 | 688 |
| 80 | 0 | 0 | 0 | 0.785 | 13.11 | 679 | 13.07 | 681 |
| 90 | 0 | 0 | 0 | 0.785 | 13.25 | 672 | 13.21 | 674 |
| 100 | 0 | 0 | 0 | 0.785 | 13.39 | 665 | 13.35 | 667 |
| 110 | 0 | 0 | 0 | 0.785 | 13.5 | 660 | 13.48 | 660 |
| 120 | 0 | 0 | 0 | 0.785 | 13.59 | 655 | 13.59 | 655 |
| 130 | 0 | 0 | 0 | 0.785 | 13.67 | 651 | 13.67 | 651 |
| 167 | 0 | 0 | 0 | 0.785 | 13.99 | 637 | 13.99 | 637 |
| 212 | 0 | 0 | 0 | 0.785 | 14.37 | 620 | 14.37 | 620 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 22.97 | 1498 | 22.95 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 22.35 | 711 | 22.31 | 712 |
| 30 | 0 | 0 | 0 | 0.785 | 22.5 | 707 | 22.46 | 708 |
| 40 | 0 | 0 | 0 | 0.785 | 22.65 | 702 | 22.61 | 703 |
| 50 | 0 | 0 | 0 | 0.785 | 22.79 | 698 | 22.75 | 699 |
| 60 | 0 | 0 | 0 | 0.785 | 22.94 | 693 | 22.9 | 695 |
| 70 | 0 | 0 | 0 | 0.785 | 23.08 | 689 | 23.04 | 691 |
| 80 | 0 | 0 | 0 | 0.785 | 23.23 | 685 | 23.18 | 686 |
| 90 | 0 | 0 | 0 | 0.785 | 23.37 | 681 | 23.32 | 682 |
| 100 | 0 | 0 | 0 | 0.785 | 23.51 | 677 | 23.47 | 678 |
| 110 | 0 | 0 | 0 | 0.785 | 23.63 | 674 | 23.61 | 674 |
| 120 | 0 | 0 | 0 | 0.785 | 23.72 | 671 | 23.72 | 671 |
| 130 | 0 | 0 | 0 | 0.785 | 23.81 | 669 | 23.81 | 669 |
| 167 | 0 | 0 | 0 | 0.785 | 24.14 | 660 | 24.14 | 660 |
| 212 | 0 | 0 | 0 | 0.785 | 24.54 | 649 | 24.54 | 649 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 36.15 | 1499 | 36.13 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 35.53 | 704 | 35.49 | 705 |
| 30 | 0 | 0 | 0 | 0.785 | 35.68 | 702 | 35.64 | 702 |
| 40 | 0 | 0 | 0 | 0.785 | 35.83 | 699 | 35.79 | 700 |
| 50 | 0 | 0 | 0 | 0.785 | 35.97 | 696 | 35.93 | 697 |
| 60 | 0 | 0 | 0 | 0.785 | 36.12 | 693 | 36.08 | 694 |
| 70 | 0 | 0 | 0 | 0.785 | 36.26 | 691 | 36.22 | 692 |
| 80 | 0 | 0 | 0 | 0.785 | 36.41 | 688 | 36.36 | 689 |
| 90 | 0 | 0 | 0 | 0.785 | 36.55 | 685 | 36.51 | 686 |
| 100 | 0 | 0 | 0 | 0.785 | 36.7 | 683 | 36.65 | 684 |
| 110 | 0 | 0 | 0 | 0.785 | 36.82 | 681 | 36.79 | 681 |
| 120 | 0 | 0 | 0 | 0.785 | 36.91 | 679 | 36.91 | 679 |
| 130 | 0 | 0 | 0 | 0.785 | 37 | 678 | 37 | 678 |
| 167 | 0 | 0 | 0 | 0.785 | 37.34 | 672 | 37.34 | 672 |
| 212 | 0 | 0 | 0 | 0.785 | 37.75 | 665 | 37.75 | 665 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-0 |
| 150.00 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 |
| 175.00 | 2-5 | 2-10 | 3-4 | 3-9 | 4-2 | 4-7 | 5-0 | 5-4 | 5-8 | 5-10 |
| 200.00 | 3-2 | 3-9 | 4-4 | 4-11 | 5-6 | 6-0 | 6-6 | 6-11 | 7-5 | 7-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-3 | 1-6 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 |
| 150.00 | 1-10 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-0 | 4-2 | 4-4 |
| 175.00 | 2-6 | 3-0 | 3-5 | 3-11 | 4-4 | 4-9 | 5-1 | 5-5 | 5-8 | 5-10 |
| 200.00 | 3-3 | 3-11 | 4-6 | 5-1 | 5-8 | 6-2 | 6-8 | 7-1 | 7-5 | 7-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 |
| 125.00 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 |
| 150.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 175.00 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 |
| 200.00 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 |
| 225.00 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 |
| 250.00 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-8 | 9-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 |
| 125.00 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 |
| 150.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 175.00 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 |
| 200.00 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 |
| 225.00 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-11 | 8-0 |
| 250.00 | 7-11 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 | 9-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 |
| 175.00 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 |
| 200.00 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 |
| 225.00 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 |
| 250.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 |
| 275.00 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 |
| 300.00 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 |
| 325.00 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 |
| 350.00 | 16-7 | 16-10 | 17-0 | 17-3 | 17-5 | 17-7 | 17-10 | 18-0 | 18-2 | 18-4 |
| 375.00 | 19-1 | 19-4 | 19-7 | 19-9 | 20-0 | 20-3 | 20-5 | 20-8 | 20-11 | 21-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 |
| 175.00 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 |
| 200.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 |
| 225.00 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 |
| 250.00 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-4 | 9-4 |
| 275.00 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-4 |
| 300.00 | 12-3 | 12-5 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 | 13-6 |
| 325.00 | 14-4 | 14-6 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-10 |
| 350.00 | 16-8 | 16-10 | 17-1 | 17-3 | 17-6 | 17-8 | 17-10 | 18-1 | 18-3 | 18-5 |
| 375.00 | 19-2 | 19-5 | 19-7 | 19-10 | 20-1 | 20-4 | 20-6 | 20-9 | 20-11 | 21-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 |
| 225.00 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 |
| 250.00 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 |
| 275.00 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 300.00 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 |
| 325.00 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-6 | 15-7 |
| 350.00 | 17-1 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-9 | 17-10 | 17-11 | 18-1 |
| 375.00 | 19-7 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-9 |
| 400.00 | 22-4 | 22-6 | 22-7 | 22-9 | 22-11 | 23-0 | 23-2 | 23-4 | 23-6 | 23-7 |
| 425.00 | 25-2 | 25-4 | 25-6 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 |
| 450.00 | 28-3 | 28-5 | 28-8 | 28-10 | 29-0 | 29-2 | 29-4 | 29-7 | 29-9 | 29-11 |
| 475.00 | 31-6 | 31-9 | 31-11 | 32-2 | 32-4 | 32-7 | 32-9 | 32-11 | 33-2 | 33-4 |
| 500.00 | 34-11 | 35-2 | 35-5 | 35-8 | 35-10 | 36-1 | 36-4 | 36-6 | 36-9 | 37-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 |
| 225.00 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 |
| 250.00 | 8-9 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 |
| 275.00 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 | 11-2 |
| 300.00 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-3 |
| 325.00 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 |
| 350.00 | 17-1 | 17-3 | 17-4 | 17-5 | 17-7 | 17-8 | 17-9 | 17-10 | 18-0 | 18-1 |
| 375.00 | 19-8 | 19-9 | 19-11 | 20-0 | 20-2 | 20-3 | 20-5 | 20-6 | 20-8 | 20-9 |
| 400.00 | 22-4 | 22-6 | 22-8 | 22-10 | 22-11 | 23-1 | 23-3 | 23-4 | 23-6 | 23-8 |
| 425.00 | 25-3 | 25-5 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 | 26-7 | 26-8 |
| 450.00 | 28-4 | 28-6 | 28-8 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 | 29-10 | 29-11 |
| 475.00 | 31-7 | 31-9 | 32-0 | 32-2 | 32-5 | 32-7 | 32-10 | 33-0 | 33-3 | 33-5 |
| 500.00 | 35-0 | 35-3 | 35-6 | 35-8 | 35-11 | 36-2 | 36-5 | 36-7 | 36-10 | 37-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 |
| 275.00 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 |
| 300.00 | 12-9 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-2 |
| 325.00 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 |
| 350.00 | 17-4 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 |
| 375.00 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 |
| 400.00 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-3 | 23-4 | 23-5 | 23-6 |
| 425.00 | 25-7 | 25-8 | 25-10 | 25-11 | 26-0 | 26-1 | 26-3 | 26-4 | 26-5 | 26-6 |
| 450.00 | 28-9 | 28-10 | 28-11 | 29-1 | 29-2 | 29-4 | 29-5 | 29-6 | 29-8 | 29-9 |
| 475.00 | 32-0 | 32-2 | 32-3 | 32-5 | 32-6 | 32-8 | 32-10 | 32-11 | 33-1 | 33-2 |
| 500.00 | 35-6 | 35-8 | 35-9 | 35-11 | 36-1 | 36-3 | 36-4 | 36-6 | 36-8 | 36-9 |
| 525.00 | 39-2 | 39-4 | 39-6 | 39-8 | 39-10 | 40-0 | 40-1 | 40-3 | 40-5 | 40-7 |
| 550.00 | 43-0 | 43-2 | 43-4 | 43-6 | 43-9 | 43-11 | 44-1 | 44-3 | 44-5 | 44-7 |
| 575.00 | 47-1 | 47-3 | 47-5 | 47-7 | 47-10 | 48-0 | 48-2 | 48-5 | 48-7 | 48-9 |
| 600.00 | 51-3 | 51-6 | 51-8 | 51-11 | 52-1 | 52-4 | 52-6 | 52-9 | 52-11 | 53-2 |
| 625.00 | 55-8 | 55-11 | 56-2 | 56-4 | 56-7 | 56-10 | 57-0 | 57-3 | 57-6 | 57-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-10 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 |
| 275.00 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 |
| 300.00 | 12-9 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 |
| 325.00 | 14-11 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 |
| 350.00 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 |
| 375.00 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 |
| 400.00 | 22-8 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 |
| 425.00 | 25-8 | 25-9 | 25-10 | 25-11 | 26-1 | 26-2 | 26-3 | 26-4 | 26-6 | 26-7 |
| 450.00 | 28-9 | 28-10 | 29-0 | 29-1 | 29-3 | 29-4 | 29-5 | 29-7 | 29-8 | 29-9 |
| 475.00 | 32-1 | 32-2 | 32-4 | 32-5 | 32-7 | 32-8 | 32-10 | 33-0 | 33-1 | 33-2 |
| 500.00 | 35-6 | 35-8 | 35-10 | 36-0 | 36-1 | 36-3 | 36-5 | 36-7 | 36-8 | 36-10 |
| 525.00 | 39-2 | 39-4 | 39-6 | 39-8 | 39-10 | 40-0 | 40-2 | 40-4 | 40-6 | 40-7 |
| 550.00 | 43-1 | 43-3 | 43-5 | 43-7 | 43-9 | 43-11 | 44-1 | 44-4 | 44-6 | 44-7 |
| 575.00 | 47-1 | 47-3 | 47-6 | 47-8 | 47-10 | 48-1 | 48-3 | 48-5 | 48-8 | 48-10 |
| 600.00 | 51-4 | 51-6 | 51-9 | 51-11 | 52-2 | 52-5 | 52-7 | 52-10 | 53-0 | 53-2 |
| 625.00 | 55-9 | 56-0 | 56-2 | 56-5 | 56-8 | 56-11 | 57-1 | 57-4 | 57-7 | 57-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 1.12 | 1889 | 1.06 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 0.45 | 2178 | 0.41 | 2369 |
| 30 | 0 | 0 | 0 | 0.785 | 0.57 | 1716 | 0.51 | 1923 |
| 40 | 0 | 0 | 0 | 0.785 | 0.72 | 1362 | 0.64 | 1545 |
| 50 | 0 | 0 | 0 | 0.785 | 0.88 | 1114 | 0.78 | 1255 |
| 60 | 0 | 0 | 0 | 0.785 | 1.04 | 943 | 0.94 | 1047 |
| 70 | 0 | 0 | 0 | 0.785 | 1.19 | 823 | 1.09 | 901 |
| 80 | 0 | 0 | 0 | 0.785 | 1.34 | 736 | 1.24 | 794 |
| 90 | 0 | 0 | 0 | 0.785 | 1.47 | 669 | 1.37 | 715 |
| 100 | 0 | 0 | 0 | 0.785 | 1.55 | 636 | 1.5 | 654 |
| 110 | 0 | 0 | 0 | 0.785 | 1.62 | 607 | 1.62 | 607 |
| 120 | 0 | 0 | 0 | 0.785 | 1.68 | 583 | 1.68 | 583 |
| 130 | 0 | 0 | 0 | 0.785 | 1.75 | 561 | 1.75 | 561 |
| 167 | 0 | 0 | 0 | 0.785 | 1.98 | 496 | 1.98 | 496 |
| 212 | 0 | 0 | 0 | 0.785 | 2.24 | 438 | 2.24 | 438 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 4.34 | 1963 | 4.25 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 3.43 | 1146 | 3.31 | 1188 |
| 30 | 0 | 0 | 0 | 0.785 | 3.64 | 1080 | 3.52 | 1117 |
| 40 | 0 | 0 | 0 | 0.785 | 3.84 | 1023 | 3.72 | 1056 |
| 50 | 0 | 0 | 0 | 0.785 | 4.04 | 974 | 3.92 | 1004 |
| 60 | 0 | 0 | 0 | 0.785 | 4.23 | 931 | 4.11 | 958 |
| 70 | 0 | 0 | 0 | 0.785 | 4.41 | 892 | 4.29 | 917 |
| 80 | 0 | 0 | 0 | 0.785 | 4.58 | 858 | 4.46 | 881 |
| 90 | 0 | 0 | 0 | 0.785 | 4.75 | 828 | 4.64 | 849 |
| 100 | 0 | 0 | 0 | 0.785 | 4.92 | 800 | 4.8 | 819 |
| 110 | 0 | 0 | 0 | 0.785 | 5.04 | 781 | 4.96 | 793 |
| 120 | 0 | 0 | 0 | 0.785 | 5.13 | 766 | 5.12 | 769 |
| 130 | 0 | 0 | 0 | 0.785 | 5.23 | 752 | 5.23 | 752 |
| 167 | 0 | 0 | 0 | 0.785 | 5.57 | 707 | 5.57 | 707 |
| 212 | 0 | 0 | 0 | 0.785 | 5.96 | 661 | 5.96 | 661 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 9.68 | 1982 | 9.59 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 8.77 | 1010 | 8.65 | 1024 |
| 30 | 0 | 0 | 0 | 0.785 | 8.98 | 987 | 8.85 | 1001 |
| 40 | 0 | 0 | 0 | 0.785 | 9.18 | 966 | 9.05 | 979 |
| 50 | 0 | 0 | 0 | 0.785 | 9.37 | 946 | 9.25 | 959 |
| 60 | 0 | 0 | 0 | 0.785 | 9.56 | 927 | 9.44 | 939 |
| 70 | 0 | 0 | 0 | 0.785 | 9.75 | 909 | 9.63 | 921 |
| 80 | 0 | 0 | 0 | 0.785 | 9.94 | 893 | 9.81 | 904 |
| 90 | 0 | 0 | 0 | 0.785 | 10.12 | 877 | 10 | 887 |
| 100 | 0 | 0 | 0 | 0.785 | 10.3 | 862 | 10.17 | 872 |
| 110 | 0 | 0 | 0 | 0.785 | 10.47 | 847 | 10.35 | 857 |
| 120 | 0 | 0 | 0 | 0.785 | 10.58 | 839 | 10.52 | 843 |
| 130 | 0 | 0 | 0 | 0.785 | 10.69 | 830 | 10.69 | 830 |
| 167 | 0 | 0 | 0 | 0.785 | 11.09 | 801 | 11.09 | 801 |
| 212 | 0 | 0 | 0 | 0.785 | 11.55 | 769 | 11.55 | 769 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 17.2 | 1990 | 17.11 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 16.29 | 970 | 16.17 | 977 |
| 30 | 0 | 0 | 0 | 0.785 | 16.49 | 958 | 16.37 | 965 |
| 40 | 0 | 0 | 0 | 0.785 | 16.69 | 947 | 16.57 | 954 |
| 50 | 0 | 0 | 0 | 0.785 | 16.89 | 936 | 16.76 | 943 |
| 60 | 0 | 0 | 0 | 0.785 | 17.08 | 926 | 16.95 | 933 |
| 70 | 0 | 0 | 0 | 0.785 | 17.27 | 916 | 17.14 | 922 |
| 80 | 0 | 0 | 0 | 0.785 | 17.46 | 906 | 17.33 | 913 |
| 90 | 0 | 0 | 0 | 0.785 | 17.65 | 897 | 17.52 | 903 |
| 100 | 0 | 0 | 0 | 0.785 | 17.83 | 887 | 17.7 | 894 |
| 110 | 0 | 0 | 0 | 0.785 | 18.02 | 879 | 17.89 | 885 |
| 120 | 0 | 0 | 0 | 0.785 | 18.15 | 872 | 18.07 | 876 |
| 130 | 0 | 0 | 0 | 0.785 | 18.26 | 867 | 18.25 | 868 |
| 167 | 0 | 0 | 0 | 0.785 | 18.69 | 847 | 18.69 | 847 |
| 212 | 0 | 0 | 0 | 0.785 | 19.19 | 826 | 19.19 | 826 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 26.93 | 1994 | 26.85 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 26.03 | 953 | 25.91 | 957 |
| 30 | 0 | 0 | 0 | 0.785 | 26.23 | 946 | 26.11 | 950 |
| 40 | 0 | 0 | 0 | 0.785 | 26.42 | 939 | 26.3 | 943 |
| 50 | 0 | 0 | 0 | 0.785 | 26.62 | 932 | 26.5 | 936 |
| 60 | 0 | 0 | 0 | 0.785 | 26.81 | 925 | 26.69 | 930 |
| 70 | 0 | 0 | 0 | 0.785 | 27.01 | 919 | 26.88 | 923 |
| 80 | 0 | 0 | 0 | 0.785 | 27.2 | 913 | 27.07 | 917 |
| 90 | 0 | 0 | 0 | 0.785 | 27.39 | 906 | 27.26 | 911 |
| 100 | 0 | 0 | 0 | 0.785 | 27.58 | 900 | 27.45 | 905 |
| 110 | 0 | 0 | 0 | 0.785 | 27.76 | 894 | 27.63 | 899 |
| 120 | 0 | 0 | 0 | 0.785 | 27.91 | 890 | 27.82 | 893 |
| 130 | 0 | 0 | 0 | 0.785 | 28.03 | 886 | 28 | 887 |
| 167 | 0 | 0 | 0 | 0.785 | 28.47 | 873 | 28.47 | 873 |
| 212 | 0 | 0 | 0 | 0.785 | 28.99 | 858 | 28.99 | 858 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 |
| 125.00 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-4 | 2-6 |
| 150.00 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 |
| 175.00 | 1-3 | 1-7 | 1-11 | 2-5 | 2-10 | 3-4 | 3-9 | 4-2 | 4-7 | 4-11 |
| 200.00 | 1-8 | 2-0 | 2-6 | 3-2 | 3-9 | 4-4 | 4-11 | 5-6 | 6-0 | 6-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 100.00 | 0-5 | 0-7 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-7 |
| 125.00 | 0-8 | 0-11 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-5 | 2-6 |
| 150.00 | 1-0 | 1-3 | 1-7 | 2-0 | 2-4 | 2-8 | 3-0 | 3-4 | 3-6 | 3-8 |
| 175.00 | 1-5 | 1-9 | 2-2 | 2-8 | 3-2 | 3-8 | 4-1 | 4-6 | 4-9 | 4-11 |
| 200.00 | 1-10 | 2-3 | 2-11 | 3-6 | 4-2 | 4-9 | 5-4 | 5-11 | 6-2 | 6-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 150.00 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 |
| 200.00 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 |
| 225.00 | 4-2 | 4-5 | 4-9 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 |
| 250.00 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 |
| 150.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 175.00 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-9 | 3-10 |
| 200.00 | 3-5 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-0 |
| 225.00 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 |
| 250.00 | 5-4 | 5-8 | 6-0 | 6-4 | 6-7 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 |
| 175.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 |
| 200.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 225.00 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 |
| 250.00 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 |
| 275.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 |
| 300.00 | 8-8 | 8-10 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 |
| 325.00 | 10-2 | 10-5 | 10-8 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-2 |
| 350.00 | 11-9 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 |
| 375.00 | 13-6 | 13-10 | 14-2 | 14-6 | 14-9 | 15-1 | 15-4 | 15-8 | 15-11 | 16-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 175.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 225.00 | 4-11 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 |
| 250.00 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 |
| 275.00 | 7-4 | 7-6 | 7-9 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 |
| 300.00 | 8-9 | 9-0 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 |
| 325.00 | 10-4 | 10-6 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-11 | 12-1 | 12-4 |
| 350.00 | 11-11 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 |
| 375.00 | 13-9 | 14-0 | 14-4 | 14-8 | 14-11 | 15-3 | 15-6 | 15-10 | 16-1 | 16-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 |
| 225.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 |
| 250.00 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 |
| 275.00 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 |
| 300.00 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 | 10-1 |
| 325.00 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-10 |
| 350.00 | 12-5 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 | 13-7 | 13-8 |
| 375.00 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 |
| 400.00 | 16-2 | 16-4 | 16-7 | 16-9 | 16-11 | 17-2 | 17-4 | 17-6 | 17-8 | 17-11 |
| 425.00 | 18-3 | 18-6 | 18-9 | 18-11 | 19-2 | 19-4 | 19-7 | 19-9 | 20-0 | 20-2 |
| 450.00 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 | 21-9 | 21-11 | 22-2 | 22-5 | 22-8 |
| 475.00 | 22-10 | 23-1 | 23-5 | 23-8 | 23-11 | 24-2 | 24-6 | 24-9 | 25-0 | 25-3 |
| 500.00 | 25-4 | 25-7 | 25-11 | 26-3 | 26-6 | 26-10 | 27-1 | 27-5 | 27-8 | 28-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 |
| 225.00 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 |
| 250.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 |
| 275.00 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 |
| 300.00 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 |
| 325.00 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 |
| 350.00 | 12-6 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-4 | 13-6 | 13-8 | 13-9 |
| 375.00 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 |
| 400.00 | 16-4 | 16-6 | 16-8 | 16-11 | 17-1 | 17-3 | 17-6 | 17-8 | 17-10 | 18-0 |
| 425.00 | 18-5 | 18-7 | 18-10 | 19-1 | 19-3 | 19-6 | 19-9 | 19-11 | 20-2 | 20-4 |
| 450.00 | 20-8 | 20-11 | 21-2 | 21-5 | 21-8 | 21-10 | 22-1 | 22-4 | 22-7 | 22-10 |
| 475.00 | 23-0 | 23-3 | 23-7 | 23-10 | 24-1 | 24-5 | 24-8 | 24-11 | 25-2 | 25-5 |
| 500.00 | 25-6 | 25-10 | 26-1 | 26-5 | 26-9 | 27-0 | 27-4 | 27-7 | 27-11 | 28-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 |
| 275.00 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 |
| 300.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 |
| 325.00 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 |
| 350.00 | 12-8 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 |
| 375.00 | 14-7 | 14-8 | 14-9 | 14-11 | 15-0 | 15-1 | 15-2 | 15-4 | 15-5 | 15-6 |
| 400.00 | 16-7 | 16-8 | 16-10 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 | 17-8 |
| 425.00 | 18-8 | 18-10 | 19-0 | 19-1 | 19-3 | 19-5 | 19-6 | 19-8 | 19-10 | 19-11 |
| 450.00 | 21-0 | 21-2 | 21-3 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 | 22-4 |
| 475.00 | 23-5 | 23-7 | 23-9 | 23-11 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 |
| 500.00 | 25-11 | 26-1 | 26-4 | 26-6 | 26-8 | 26-11 | 27-1 | 27-3 | 27-5 | 27-8 |
| 525.00 | 28-7 | 28-10 | 29-0 | 29-3 | 29-5 | 29-8 | 29-10 | 30-1 | 30-3 | 30-6 |
| 550.00 | 31-5 | 31-7 | 31-10 | 32-1 | 32-4 | 32-7 | 32-9 | 33-0 | 33-3 | 33-6 |
| 575.00 | 34-4 | 34-7 | 34-10 | 35-1 | 35-4 | 35-7 | 35-10 | 36-1 | 36-4 | 36-7 |
| 600.00 | 37-4 | 37-8 | 37-11 | 38-3 | 38-6 | 38-9 | 39-1 | 39-4 | 39-7 | 39-10 |
| 625.00 | 40-7 | 40-11 | 41-2 | 41-6 | 41-9 | 42-1 | 42-5 | 42-8 | 43-0 | 43-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 |
| 275.00 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 |
| 300.00 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 325.00 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 |
| 350.00 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 |
| 375.00 | 14-7 | 14-9 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 | 15-5 | 15-6 | 15-7 |
| 400.00 | 16-8 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-9 |
| 425.00 | 18-9 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 | 19-8 | 19-9 | 19-11 | 20-0 |
| 450.00 | 21-1 | 21-3 | 21-5 | 21-7 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 |
| 475.00 | 23-6 | 23-8 | 23-10 | 24-0 | 24-2 | 24-4 | 24-6 | 24-8 | 24-11 | 25-1 |
| 500.00 | 26-0 | 26-3 | 26-5 | 26-7 | 26-10 | 27-0 | 27-2 | 27-5 | 27-7 | 27-9 |
| 525.00 | 28-9 | 28-11 | 29-2 | 29-4 | 29-7 | 29-9 | 30-0 | 30-2 | 30-5 | 30-7 |
| 550.00 | 31-6 | 31-9 | 32-0 | 32-3 | 32-6 | 32-8 | 32-11 | 33-2 | 33-5 | 33-7 |
| 575.00 | 34-6 | 34-9 | 35-0 | 35-3 | 35-6 | 35-9 | 36-0 | 36-3 | 36-6 | 36-9 |
| 600.00 | 37-7 | 37-10 | 38-1 | 38-5 | 38-8 | 38-11 | 39-3 | 39-6 | 39-9 | 40-1 |
| 625.00 | 40-9 | 41-1 | 41-4 | 41-8 | 42-0 | 42-3 | 42-7 | 42-11 | 43-2 | 43-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 0.95 | 2241 | 0.85 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 0.33 | 2963 | 0.3 | 3300 |
| 30 | 0 | 0 | 0 | 0.785 | 0.41 | 2396 | 0.35 | 2795 |
| 40 | 0 | 0 | 0 | 0.785 | 0.52 | 1896 | 0.42 | 2309 |
| 50 | 0 | 0 | 0 | 0.785 | 0.66 | 1496 | 0.53 | 1867 |
| 60 | 0 | 0 | 0 | 0.785 | 0.81 | 1206 | 0.65 | 1499 |
| 70 | 0 | 0 | 0 | 0.785 | 0.98 | 1006 | 0.8 | 1221 |
| 80 | 0 | 0 | 0 | 0.785 | 1.13 | 868 | 0.96 | 1023 |
| 90 | 0 | 0 | 0 | 0.785 | 1.27 | 772 | 1.11 | 883 |
| 100 | 0 | 0 | 0 | 0.785 | 1.34 | 731 | 1.26 | 781 |
| 110 | 0 | 0 | 0 | 0.785 | 1.42 | 694 | 1.39 | 705 |
| 120 | 0 | 0 | 0 | 0.785 | 1.49 | 658 | 1.49 | 658 |
| 130 | 0 | 0 | 0 | 0.785 | 1.56 | 629 | 1.56 | 629 |
| 167 | 0 | 0 | 0 | 0.785 | 1.81 | 544 | 1.81 | 544 |
| 212 | 0 | 0 | 0 | 0.785 | 2.08 | 472 | 2.08 | 472 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 3.55 | 2397 | 3.4 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 2.39 | 1643 | 2.17 | 1806 |
| 30 | 0 | 0 | 0 | 0.785 | 2.64 | 1487 | 2.42 | 1625 |
| 40 | 0 | 0 | 0 | 0.785 | 2.89 | 1362 | 2.66 | 1478 |
| 50 | 0 | 0 | 0 | 0.785 | 3.12 | 1260 | 2.89 | 1358 |
| 60 | 0 | 0 | 0 | 0.785 | 3.34 | 1176 | 3.12 | 1259 |
| 70 | 0 | 0 | 0 | 0.785 | 3.56 | 1105 | 3.34 | 1177 |
| 80 | 0 | 0 | 0 | 0.785 | 3.76 | 1045 | 3.55 | 1107 |
| 90 | 0 | 0 | 0 | 0.785 | 3.96 | 993 | 3.75 | 1048 |
| 100 | 0 | 0 | 0 | 0.785 | 4.15 | 947 | 3.95 | 996 |
| 110 | 0 | 0 | 0 | 0.785 | 4.3 | 915 | 4.14 | 951 |
| 120 | 0 | 0 | 0 | 0.785 | 4.4 | 893 | 4.32 | 911 |
| 130 | 0 | 0 | 0 | 0.785 | 4.51 | 873 | 4.49 | 875 |
| 167 | 0 | 0 | 0 | 0.785 | 4.89 | 805 | 4.89 | 805 |
| 212 | 0 | 0 | 0 | 0.785 | 5.31 | 741 | 5.31 | 741 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 7.83 | 2448 | 7.66 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 6.61 | 1338 | 6.38 | 1387 |
| 30 | 0 | 0 | 0 | 0.785 | 6.87 | 1288 | 6.63 | 1334 |
| 40 | 0 | 0 | 0 | 0.785 | 7.12 | 1243 | 6.88 | 1286 |
| 50 | 0 | 0 | 0 | 0.785 | 7.36 | 1203 | 7.13 | 1242 |
| 60 | 0 | 0 | 0 | 0.785 | 7.6 | 1165 | 7.36 | 1202 |
| 70 | 0 | 0 | 0 | 0.785 | 7.83 | 1131 | 7.6 | 1166 |
| 80 | 0 | 0 | 0 | 0.785 | 8.05 | 1100 | 7.82 | 1132 |
| 90 | 0 | 0 | 0 | 0.785 | 8.27 | 1071 | 8.04 | 1101 |
| 100 | 0 | 0 | 0 | 0.785 | 8.48 | 1044 | 8.26 | 1072 |
| 110 | 0 | 0 | 0 | 0.785 | 8.69 | 1019 | 8.47 | 1046 |
| 120 | 0 | 0 | 0 | 0.785 | 8.85 | 1002 | 8.68 | 1021 |
| 130 | 0 | 0 | 0 | 0.785 | 8.97 | 988 | 8.88 | 998 |
| 167 | 0 | 0 | 0 | 0.785 | 9.43 | 941 | 9.43 | 941 |
| 212 | 0 | 0 | 0 | 0.785 | 9.95 | 892 | 9.95 | 892 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 13.82 | 2470 | 13.65 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 12.6 | 1251 | 12.37 | 1274 |
| 30 | 0 | 0 | 0 | 0.785 | 12.85 | 1227 | 12.62 | 1249 |
| 40 | 0 | 0 | 0 | 0.785 | 13.1 | 1204 | 12.86 | 1225 |
| 50 | 0 | 0 | 0 | 0.785 | 13.34 | 1182 | 13.11 | 1203 |
| 60 | 0 | 0 | 0 | 0.785 | 13.58 | 1161 | 13.35 | 1182 |
| 70 | 0 | 0 | 0 | 0.785 | 13.82 | 1142 | 13.58 | 1161 |
| 80 | 0 | 0 | 0 | 0.785 | 14.05 | 1123 | 13.82 | 1142 |
| 90 | 0 | 0 | 0 | 0.785 | 14.28 | 1105 | 14.04 | 1123 |
| 100 | 0 | 0 | 0 | 0.785 | 14.5 | 1088 | 14.27 | 1106 |
| 110 | 0 | 0 | 0 | 0.785 | 14.73 | 1072 | 14.49 | 1089 |
| 120 | 0 | 0 | 0 | 0.785 | 14.93 | 1057 | 14.71 | 1073 |
| 130 | 0 | 0 | 0 | 0.785 | 15.07 | 1048 | 14.93 | 1057 |
| 167 | 0 | 0 | 0 | 0.785 | 15.57 | 1014 | 15.57 | 1014 |
| 212 | 0 | 0 | 0 | 0.785 | 16.15 | 978 | 16.15 | 978 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 21.56 | 2480 | 21.39 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 20.34 | 1214 | 20.1 | 1228 |
| 30 | 0 | 0 | 0 | 0.785 | 20.59 | 1200 | 20.35 | 1213 |
| 40 | 0 | 0 | 0 | 0.785 | 20.83 | 1186 | 20.6 | 1199 |
| 50 | 0 | 0 | 0 | 0.785 | 21.08 | 1172 | 20.84 | 1185 |
| 60 | 0 | 0 | 0 | 0.785 | 21.32 | 1159 | 21.08 | 1172 |
| 70 | 0 | 0 | 0 | 0.785 | 21.55 | 1147 | 21.32 | 1159 |
| 80 | 0 | 0 | 0 | 0.785 | 21.79 | 1134 | 21.55 | 1147 |
| 90 | 0 | 0 | 0 | 0.785 | 22.02 | 1122 | 21.79 | 1135 |
| 100 | 0 | 0 | 0 | 0.785 | 22.26 | 1111 | 22.02 | 1123 |
| 110 | 0 | 0 | 0 | 0.785 | 22.49 | 1100 | 22.25 | 1111 |
| 120 | 0 | 0 | 0 | 0.785 | 22.71 | 1089 | 22.47 | 1100 |
| 130 | 0 | 0 | 0 | 0.785 | 22.87 | 1082 | 22.7 | 1090 |
| 167 | 0 | 0 | 0 | 0.785 | 23.4 | 1058 | 23.4 | 1058 |
| 212 | 0 | 0 | 0 | 0.785 | 24.01 | 1031 | 24.01 | 1031 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-2 |
| 150.00 | 0-8 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-2 |
| 175.00 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-6 | 2-11 | 3-5 | 3-10 | 4-3 |
| 200.00 | 1-2 | 1-5 | 1-8 | 2-1 | 2-7 | 3-3 | 3-10 | 4-5 | 5-0 | 5-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 |
| 125.00 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-1 | 2-3 |
| 150.00 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-2 | 2-7 | 2-10 | 3-0 | 3-2 |
| 175.00 | 1-0 | 1-3 | 1-7 | 2-0 | 2-6 | 3-0 | 3-6 | 3-11 | 4-1 | 4-4 |
| 200.00 | 1-4 | 1-8 | 2-1 | 2-7 | 3-3 | 3-11 | 4-6 | 5-1 | 5-5 | 5-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 |
| 150.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 |
| 175.00 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 |
| 200.00 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 |
| 225.00 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 |
| 250.00 | 3-5 | 3-9 | 4-2 | 4-6 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 125.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 150.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 175.00 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 |
| 200.00 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 225.00 | 3-0 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 |
| 250.00 | 3-9 | 4-2 | 4-6 | 4-10 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 200.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 |
| 225.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 |
| 250.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 |
| 275.00 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 |
| 300.00 | 6-5 | 6-8 | 6-11 | 7-2 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 |
| 325.00 | 7-6 | 7-9 | 8-1 | 8-4 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 |
| 350.00 | 8-8 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 |
| 375.00 | 10-0 | 10-4 | 10-9 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 |
| 175.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 |
| 200.00 | 2-11 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 225.00 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 |
| 250.00 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 |
| 275.00 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 |
| 300.00 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 |
| 325.00 | 7-9 | 8-1 | 8-4 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 10-0 | 10-2 |
| 350.00 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-3 | 11-7 | 11-10 |
| 375.00 | 10-4 | 10-9 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 |
| 225.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 |
| 250.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 275.00 | 5-10 | 6-0 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 |
| 300.00 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 |
| 325.00 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 | 9-7 |
| 350.00 | 9-6 | 9-8 | 9-10 | 10-0 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 |
| 375.00 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-6 | 12-9 |
| 400.00 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 |
| 425.00 | 14-0 | 14-3 | 14-6 | 14-10 | 15-1 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 |
| 450.00 | 15-8 | 16-0 | 16-3 | 16-7 | 16-11 | 17-2 | 17-6 | 17-9 | 18-1 | 18-4 |
| 475.00 | 17-5 | 17-10 | 18-2 | 18-6 | 18-10 | 19-2 | 19-6 | 19-10 | 20-2 | 20-5 |
| 500.00 | 19-4 | 19-9 | 20-1 | 20-6 | 20-10 | 21-3 | 21-7 | 22-0 | 22-4 | 22-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 |
| 225.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 250.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 |
| 275.00 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 |
| 300.00 | 7-1 | 7-3 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 |
| 325.00 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 |
| 350.00 | 9-8 | 9-10 | 10-0 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 |
| 375.00 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 |
| 400.00 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 | 14-9 |
| 425.00 | 14-3 | 14-6 | 14-9 | 15-1 | 15-4 | 15-7 | 15-10 | 16-1 | 16-5 | 16-8 |
| 450.00 | 15-11 | 16-3 | 16-7 | 16-11 | 17-2 | 17-6 | 17-9 | 18-1 | 18-4 | 18-8 |
| 475.00 | 17-9 | 18-2 | 18-6 | 18-10 | 19-2 | 19-6 | 19-10 | 20-2 | 20-6 | 20-9 |
| 500.00 | 19-8 | 20-1 | 20-6 | 20-10 | 21-3 | 21-7 | 22-0 | 22-4 | 22-8 | 23-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 |
| 275.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 |
| 300.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 325.00 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-5 |
| 350.00 | 9-10 | 10-0 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-9 | 10-11 |
| 375.00 | 11-4 | 11-5 | 11-7 | 11-9 | 11-10 | 12-0 | 12-1 | 12-3 | 12-4 | 12-6 |
| 400.00 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 | 14-3 |
| 425.00 | 14-6 | 14-8 | 14-10 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 |
| 450.00 | 16-3 | 16-6 | 16-8 | 16-10 | 17-1 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 |
| 475.00 | 18-2 | 18-4 | 18-7 | 18-10 | 19-0 | 19-3 | 19-5 | 19-8 | 19-10 | 20-1 |
| 500.00 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-4 | 21-7 | 21-9 | 22-0 | 22-3 |
| 525.00 | 22-2 | 22-5 | 22-9 | 23-0 | 23-3 | 23-6 | 23-9 | 24-0 | 24-3 | 24-6 |
| 550.00 | 24-4 | 24-8 | 24-11 | 25-3 | 25-6 | 25-10 | 26-1 | 26-4 | 26-8 | 26-11 |
| 575.00 | 26-7 | 26-11 | 27-3 | 27-7 | 27-11 | 28-3 | 28-6 | 28-10 | 29-2 | 29-5 |
| 600.00 | 29-0 | 29-4 | 29-8 | 30-0 | 30-5 | 30-9 | 31-1 | 31-5 | 31-9 | 32-1 |
| 625.00 | 31-5 | 31-10 | 32-3 | 32-7 | 33-0 | 33-4 | 33-9 | 34-1 | 34-5 | 34-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 |
| 275.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 |
| 300.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 |
| 325.00 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 |
| 350.00 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-9 | 10-11 | 11-0 |
| 375.00 | 11-5 | 11-7 | 11-8 | 11-10 | 12-0 | 12-1 | 12-3 | 12-4 | 12-6 | 12-8 |
| 400.00 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 |
| 425.00 | 14-8 | 14-10 | 15-0 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 |
| 450.00 | 16-6 | 16-8 | 16-10 | 17-1 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-2 |
| 475.00 | 18-4 | 18-7 | 18-10 | 19-0 | 19-3 | 19-5 | 19-8 | 19-10 | 20-1 | 20-3 |
| 500.00 | 20-4 | 20-7 | 20-10 | 21-1 | 21-4 | 21-7 | 21-9 | 22-0 | 22-3 | 22-6 |
| 525.00 | 22-5 | 22-8 | 23-0 | 23-3 | 23-6 | 23-9 | 24-0 | 24-3 | 24-7 | 24-10 |
| 550.00 | 24-7 | 24-11 | 25-3 | 25-6 | 25-10 | 26-1 | 26-5 | 26-8 | 26-11 | 27-3 |
| 575.00 | 26-11 | 27-3 | 27-7 | 27-11 | 28-3 | 28-6 | 28-10 | 29-2 | 29-5 | 29-9 |
| 600.00 | 29-4 | 29-8 | 30-0 | 30-5 | 30-9 | 31-1 | 31-5 | 31-9 | 32-1 | 32-5 |
| 625.00 | 31-10 | 32-2 | 32-7 | 33-0 | 33-4 | 33-9 | 34-1 | 34-6 | 34-10 | 35-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 0.83 | 2549 | 0.71 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 0.28 | 3544 | 0.24 | 4038 |
| 30 | 0 | 0 | 0 | 0.785 | 0.33 | 2940 | 0.28 | 3525 |
| 40 | 0 | 0 | 0 | 0.785 | 0.41 | 2375 | 0.33 | 3012 |
| 50 | 0 | 0 | 0 | 0.785 | 0.52 | 1878 | 0.39 | 2513 |
| 60 | 0 | 0 | 0 | 0.785 | 0.66 | 1482 | 0.48 | 2047 |
| 70 | 0 | 0 | 0 | 0.785 | 0.82 | 1197 | 0.6 | 1643 |
| 80 | 0 | 0 | 0 | 0.785 | 0.98 | 1000 | 0.74 | 1325 |
| 90 | 0 | 0 | 0 | 0.785 | 1.12 | 880 | 0.9 | 1096 |
| 100 | 0 | 0 | 0 | 0.785 | 1.19 | 827 | 1.05 | 934 |
| 110 | 0 | 0 | 0 | 0.785 | 1.26 | 780 | 1.2 | 819 |
| 120 | 0 | 0 | 0 | 0.785 | 1.34 | 734 | 1.34 | 734 |
| 130 | 0 | 0 | 0 | 0.785 | 1.41 | 695 | 1.41 | 695 |
| 167 | 0 | 0 | 0 | 0.785 | 1.67 | 589 | 1.67 | 589 |
| 212 | 0 | 0 | 0 | 0.785 | 1.96 | 503 | 1.96 | 503 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 3.05 | 2791 | 2.83 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 1.73 | 2269 | 1.48 | 2657 |
| 30 | 0 | 0 | 0 | 0.785 | 1.98 | 1981 | 1.69 | 2325 |
| 40 | 0 | 0 | 0 | 0.785 | 2.24 | 1754 | 1.92 | 2045 |
| 50 | 0 | 0 | 0 | 0.785 | 2.49 | 1575 | 2.16 | 1817 |
| 60 | 0 | 0 | 0 | 0.785 | 2.74 | 1432 | 2.41 | 1632 |
| 70 | 0 | 0 | 0 | 0.785 | 2.98 | 1318 | 2.65 | 1483 |
| 80 | 0 | 0 | 0 | 0.785 | 3.21 | 1224 | 2.88 | 1362 |
| 90 | 0 | 0 | 0 | 0.785 | 3.43 | 1145 | 3.11 | 1263 |
| 100 | 0 | 0 | 0 | 0.785 | 3.64 | 1079 | 3.33 | 1180 |
| 110 | 0 | 0 | 0 | 0.785 | 3.8 | 1035 | 3.54 | 1109 |
| 120 | 0 | 0 | 0 | 0.785 | 3.91 | 1006 | 3.75 | 1049 |
| 130 | 0 | 0 | 0 | 0.785 | 4.02 | 979 | 3.94 | 997 |
| 167 | 0 | 0 | 0 | 0.785 | 4.42 | 889 | 4.42 | 889 |
| 212 | 0 | 0 | 0 | 0.785 | 4.88 | 807 | 4.88 | 807 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 6.63 | 2888 | 6.38 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 5.12 | 1728 | 4.74 | 1865 |
| 30 | 0 | 0 | 0 | 0.785 | 5.42 | 1631 | 5.04 | 1753 |
| 40 | 0 | 0 | 0 | 0.785 | 5.71 | 1548 | 5.34 | 1657 |
| 50 | 0 | 0 | 0 | 0.785 | 6 | 1475 | 5.62 | 1572 |
| 60 | 0 | 0 | 0 | 0.785 | 6.27 | 1411 | 5.9 | 1498 |
| 70 | 0 | 0 | 0 | 0.785 | 6.54 | 1354 | 6.17 | 1433 |
| 80 | 0 | 0 | 0 | 0.785 | 6.8 | 1302 | 6.44 | 1374 |
| 90 | 0 | 0 | 0 | 0.785 | 7.05 | 1256 | 6.69 | 1322 |
| 100 | 0 | 0 | 0 | 0.785 | 7.29 | 1214 | 6.94 | 1275 |
| 110 | 0 | 0 | 0 | 0.785 | 7.53 | 1176 | 7.19 | 1232 |
| 120 | 0 | 0 | 0 | 0.785 | 7.72 | 1147 | 7.42 | 1193 |
| 130 | 0 | 0 | 0 | 0.785 | 7.85 | 1128 | 7.65 | 1157 |
| 167 | 0 | 0 | 0 | 0.785 | 8.35 | 1061 | 8.35 | 1061 |
| 212 | 0 | 0 | 0 | 0.785 | 8.92 | 994 | 8.92 | 994 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 11.63 | 2932 | 11.36 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 10.07 | 1563 | 9.69 | 1624 |
| 30 | 0 | 0 | 0 | 0.785 | 10.37 | 1518 | 9.99 | 1575 |
| 40 | 0 | 0 | 0 | 0.785 | 10.67 | 1476 | 10.29 | 1530 |
| 50 | 0 | 0 | 0 | 0.785 | 10.96 | 1437 | 10.58 | 1488 |
| 60 | 0 | 0 | 0 | 0.785 | 11.24 | 1401 | 10.87 | 1449 |
| 70 | 0 | 0 | 0 | 0.785 | 11.52 | 1368 | 11.14 | 1413 |
| 80 | 0 | 0 | 0 | 0.785 | 11.79 | 1336 | 11.42 | 1379 |
| 90 | 0 | 0 | 0 | 0.785 | 12.06 | 1307 | 11.69 | 1348 |
| 100 | 0 | 0 | 0 | 0.785 | 12.32 | 1279 | 11.95 | 1318 |
| 110 | 0 | 0 | 0 | 0.785 | 12.57 | 1253 | 12.21 | 1290 |
| 120 | 0 | 0 | 0 | 0.785 | 12.83 | 1229 | 12.47 | 1264 |
| 130 | 0 | 0 | 0 | 0.785 | 13 | 1213 | 12.72 | 1240 |
| 167 | 0 | 0 | 0 | 0.785 | 13.57 | 1163 | 13.57 | 1163 |
| 212 | 0 | 0 | 0 | 0.785 | 14.21 | 1111 | 14.21 | 1111 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.698 | 18.06 | 2955 | 17.78 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 16.49 | 1494 | 16.11 | 1529 |
| 30 | 0 | 0 | 0 | 0.785 | 16.79 | 1468 | 16.41 | 1502 |
| 40 | 0 | 0 | 0 | 0.785 | 17.08 | 1443 | 16.7 | 1475 |
| 50 | 0 | 0 | 0 | 0.785 | 17.37 | 1419 | 16.99 | 1450 |
| 60 | 0 | 0 | 0 | 0.785 | 17.66 | 1396 | 17.28 | 1426 |
| 70 | 0 | 0 | 0 | 0.785 | 17.94 | 1374 | 17.56 | 1404 |
| 80 | 0 | 0 | 0 | 0.785 | 18.22 | 1354 | 17.84 | 1382 |
| 90 | 0 | 0 | 0 | 0.785 | 18.5 | 1334 | 18.12 | 1361 |
| 100 | 0 | 0 | 0 | 0.785 | 18.77 | 1315 | 18.39 | 1341 |
| 110 | 0 | 0 | 0 | 0.785 | 19.03 | 1296 | 18.66 | 1322 |
| 120 | 0 | 0 | 0 | 0.785 | 19.3 | 1279 | 18.92 | 1304 |
| 130 | 0 | 0 | 0 | 0.785 | 19.53 | 1264 | 19.19 | 1286 |
| 167 | 0 | 0 | 0 | 0.785 | 20.13 | 1226 | 20.13 | 1226 |
| 212 | 0 | 0 | 0 | 0.785 | 20.83 | 1186 | 20.83 | 1186 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-10 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-4 | 2-8 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-3 | 2-9 | 3-3 | 3-8 |
| 200.00 | 1-0 | 1-1 | 1-4 | 1-7 | 1-11 | 2-5 | 3-0 | 3-7 | 4-2 | 4-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-6 | 0-7 | 0-8 | 0-8 | 0-8 |
| 100.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 |
| 125.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 1-10 | 2-0 |
| 150.00 | 0-7 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-3 | 2-6 | 2-8 | 2-10 |
| 175.00 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-6 | 3-0 | 3-5 | 3-8 | 3-10 |
| 200.00 | 1-1 | 1-4 | 1-8 | 2-1 | 2-8 | 3-3 | 3-11 | 4-6 | 4-9 | 5-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 175.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 |
| 200.00 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 |
| 225.00 | 1-10 | 2-2 | 2-5 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 |
| 250.00 | 2-4 | 2-8 | 3-0 | 3-5 | 3-9 | 4-2 | 4-6 | 4-10 | 5-2 | 5-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 |
| 175.00 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-9 | 2-11 |
| 200.00 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 |
| 225.00 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 |
| 250.00 | 2-8 | 3-1 | 3-6 | 3-11 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 |
| 225.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 |
| 250.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 |
| 275.00 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 |
| 300.00 | 4-9 | 5-1 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 |
| 325.00 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 |
| 350.00 | 6-5 | 6-10 | 7-3 | 7-8 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-9 |
| 375.00 | 7-5 | 7-11 | 8-4 | 8-9 | 9-3 | 9-8 | 10-1 | 10-6 | 10-10 | 11-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 |
| 175.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 200.00 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 |
| 225.00 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 |
| 250.00 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-3 |
| 275.00 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 |
| 300.00 | 5-1 | 5-5 | 5-9 | 6-0 | 6-3 | 6-6 | 6-10 | 7-1 | 7-3 | 7-6 |
| 325.00 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-3 | 8-7 | 8-10 |
| 350.00 | 7-0 | 7-5 | 7-9 | 8-2 | 8-6 | 8-11 | 9-3 | 9-7 | 9-11 | 10-3 |
| 375.00 | 8-0 | 8-6 | 8-11 | 9-4 | 9-10 | 10-3 | 10-7 | 11-0 | 11-5 | 11-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 225.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 250.00 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 |
| 275.00 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 |
| 300.00 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 |
| 325.00 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 | 7-9 | 7-11 | 8-1 |
| 350.00 | 7-5 | 7-8 | 7-11 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 |
| 375.00 | 8-6 | 8-9 | 9-1 | 9-4 | 9-7 | 9-10 | 10-0 | 10-3 | 10-6 | 10-9 |
| 400.00 | 9-8 | 10-0 | 10-3 | 10-7 | 10-10 | 11-2 | 11-5 | 11-8 | 11-11 | 12-3 |
| 425.00 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 | 12-7 | 12-11 | 13-2 | 13-6 | 13-9 |
| 450.00 | 12-3 | 12-8 | 13-0 | 13-5 | 13-9 | 14-1 | 14-5 | 14-10 | 15-2 | 15-6 |
| 475.00 | 13-8 | 14-1 | 14-6 | 14-11 | 15-4 | 15-9 | 16-1 | 16-6 | 16-10 | 17-3 |
| 500.00 | 15-2 | 15-7 | 16-1 | 16-6 | 17-0 | 17-5 | 17-10 | 18-3 | 18-8 | 19-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 |
| 225.00 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 250.00 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 |
| 275.00 | 4-9 | 4-11 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 |
| 300.00 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 |
| 325.00 | 6-8 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-2 | 8-4 |
| 350.00 | 7-9 | 7-11 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 |
| 375.00 | 8-10 | 9-1 | 9-5 | 9-8 | 9-11 | 10-1 | 10-4 | 10-7 | 10-10 | 11-1 |
| 400.00 | 10-1 | 10-4 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 | 12-1 | 12-4 | 12-7 |
| 425.00 | 11-4 | 11-9 | 12-1 | 12-4 | 12-8 | 13-0 | 13-4 | 13-7 | 13-11 | 14-2 |
| 450.00 | 12-9 | 13-2 | 13-6 | 13-10 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-11 |
| 475.00 | 14-2 | 14-8 | 15-1 | 15-6 | 15-10 | 16-3 | 16-8 | 17-0 | 17-5 | 17-9 |
| 500.00 | 15-9 | 16-3 | 16-8 | 17-2 | 17-7 | 18-0 | 18-5 | 18-10 | 19-3 | 19-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 |
| 275.00 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 300.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 |
| 325.00 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 |
| 350.00 | 7-11 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 |
| 375.00 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 |
| 400.00 | 10-4 | 10-6 | 10-8 | 10-10 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 |
| 425.00 | 11-8 | 11-10 | 12-1 | 12-3 | 12-6 | 12-8 | 12-11 | 13-1 | 13-3 | 13-6 |
| 450.00 | 13-1 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-5 | 14-8 | 14-11 | 15-1 |
| 475.00 | 14-6 | 14-10 | 15-1 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 |
| 500.00 | 16-1 | 16-5 | 16-8 | 17-0 | 17-3 | 17-7 | 17-10 | 18-1 | 18-5 | 18-8 |
| 525.00 | 17-9 | 18-1 | 18-5 | 18-9 | 19-1 | 19-4 | 19-8 | 20-0 | 20-3 | 20-7 |
| 550.00 | 19-6 | 19-10 | 20-3 | 20-7 | 20-11 | 21-3 | 21-7 | 21-11 | 22-3 | 22-7 |
| 575.00 | 21-4 | 21-8 | 22-1 | 22-6 | 22-10 | 23-3 | 23-7 | 24-0 | 24-4 | 24-8 |
| 600.00 | 23-2 | 23-8 | 24-1 | 24-6 | 24-11 | 25-4 | 25-9 | 26-1 | 26-6 | 26-11 |
| 625.00 | 25-2 | 25-8 | 26-1 | 26-7 | 27-0 | 27-6 | 27-11 | 28-4 | 28-9 | 29-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 |
| 275.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 |
| 300.00 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 | 6-10 |
| 325.00 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 |
| 350.00 | 8-1 | 8-3 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 |
| 375.00 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-8 |
| 400.00 | 10-7 | 10-9 | 10-11 | 11-1 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 |
| 425.00 | 11-11 | 12-1 | 12-4 | 12-7 | 12-9 | 12-11 | 13-2 | 13-4 | 13-7 | 13-9 |
| 450.00 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-6 | 14-9 | 15-0 | 15-2 | 15-5 |
| 475.00 | 14-11 | 15-2 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 |
| 500.00 | 16-6 | 16-9 | 17-1 | 17-4 | 17-8 | 17-11 | 18-3 | 18-6 | 18-9 | 19-0 |
| 525.00 | 18-2 | 18-6 | 18-10 | 19-2 | 19-6 | 19-9 | 20-1 | 20-5 | 20-8 | 21-0 |
| 550.00 | 19-11 | 20-4 | 20-8 | 21-0 | 21-5 | 21-9 | 22-1 | 22-5 | 22-9 | 23-0 |
| 575.00 | 21-10 | 22-3 | 22-7 | 23-0 | 23-4 | 23-9 | 24-1 | 24-6 | 24-10 | 25-2 |
| 600.00 | 23-9 | 24-2 | 24-7 | 25-0 | 25-5 | 25-10 | 26-3 | 26-8 | 27-1 | 27-5 |
| 625.00 | 25-9 | 26-3 | 26-9 | 27-2 | 27-7 | 28-1 | 28-6 | 28-11 | 29-4 | 29-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 2.13 | 1000 | 2.13 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 1.81 | 544 | 1.8 | 547 |
| 30 | 0 | 0 | 0 | 0.785 | 2.14 | 458 | 2.14 | 460 |
| 40 | 0 | 0 | 0 | 0.785 | 2.24 | 440 | 2.23 | 441 |
| 50 | 0 | 0 | 0 | 0.785 | 2.32 | 423 | 2.32 | 425 |
| 60 | 0 | 0 | 0 | 0.785 | 2.41 | 408 | 2.4 | 410 |
| 70 | 0 | 0 | 0 | 0.785 | 2.49 | 394 | 2.48 | 396 |
| 80 | 0 | 0 | 0 | 0.785 | 2.57 | 382 | 2.56 | 384 |
| 90 | 0 | 0 | 0 | 0.785 | 2.63 | 374 | 2.63 | 374 |
| 100 | 0 | 0 | 0 | 0.785 | 2.68 | 367 | 2.68 | 367 |
| 110 | 0 | 0 | 0 | 0.785 | 2.73 | 361 | 2.73 | 361 |
| 120 | 0 | 0 | 0 | 0.785 | 2.77 | 355 | 2.77 | 355 |
| 130 | 0 | 0 | 0 | 0.785 | 2.82 | 349 | 2.82 | 349 |
| 167 | 0 | 0 | 0 | 0.785 | 2.99 | 330 | 2.99 | 330 |
| 212 | 0 | 0 | 0 | 0.785 | 3.18 | 310 | 3.18 | 310 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 8.55 | 1000 | 8.55 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 8.24 | 480 | 8.23 | 480 |
| 30 | 0 | 0 | 0 | 0.785 | 8.57 | 461 | 8.56 | 462 |
| 40 | 0 | 0 | 0 | 0.785 | 8.67 | 456 | 8.66 | 457 |
| 50 | 0 | 0 | 0 | 0.785 | 8.76 | 451 | 8.75 | 452 |
| 60 | 0 | 0 | 0 | 0.785 | 8.86 | 447 | 8.85 | 447 |
| 70 | 0 | 0 | 0 | 0.785 | 8.95 | 442 | 8.94 | 443 |
| 80 | 0 | 0 | 0 | 0.785 | 9.04 | 438 | 9.03 | 438 |
| 90 | 0 | 0 | 0 | 0.785 | 9.13 | 434 | 9.12 | 434 |
| 100 | 0 | 0 | 0 | 0.785 | 9.19 | 431 | 9.19 | 431 |
| 110 | 0 | 0 | 0 | 0.785 | 9.24 | 428 | 9.24 | 428 |
| 120 | 0 | 0 | 0 | 0.785 | 9.3 | 426 | 9.3 | 426 |
| 130 | 0 | 0 | 0 | 0.785 | 9.36 | 423 | 9.36 | 423 |
| 167 | 0 | 0 | 0 | 0.785 | 9.57 | 414 | 9.57 | 414 |
| 212 | 0 | 0 | 0 | 0.785 | 9.82 | 404 | 9.82 | 404 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 19.43 | 1000 | 19.43 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 19.11 | 470 | 19.1 | 470 |
| 30 | 0 | 0 | 0 | 0.785 | 19.45 | 462 | 19.44 | 462 |
| 40 | 0 | 0 | 0 | 0.785 | 19.54 | 460 | 19.53 | 460 |
| 50 | 0 | 0 | 0 | 0.785 | 19.64 | 457 | 19.63 | 458 |
| 60 | 0 | 0 | 0 | 0.785 | 19.74 | 455 | 19.73 | 455 |
| 70 | 0 | 0 | 0 | 0.785 | 19.83 | 453 | 19.82 | 453 |
| 80 | 0 | 0 | 0 | 0.785 | 19.93 | 451 | 19.91 | 451 |
| 90 | 0 | 0 | 0 | 0.785 | 20.02 | 449 | 20.01 | 449 |
| 100 | 0 | 0 | 0 | 0.785 | 20.08 | 448 | 20.08 | 448 |
| 110 | 0 | 0 | 0 | 0.785 | 20.14 | 446 | 20.14 | 446 |
| 120 | 0 | 0 | 0 | 0.785 | 20.2 | 445 | 20.2 | 445 |
| 130 | 0 | 0 | 0 | 0.785 | 20.26 | 444 | 20.26 | 444 |
| 167 | 0 | 0 | 0 | 0.785 | 20.48 | 439 | 20.48 | 439 |
| 212 | 0 | 0 | 0 | 0.785 | 20.75 | 434 | 20.75 | 434 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 35.01 | 1000 | 35.01 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 34.7 | 466 | 34.69 | 466 |
| 30 | 0 | 0 | 0 | 0.785 | 35.03 | 462 | 35.02 | 462 |
| 40 | 0 | 0 | 0 | 0.785 | 35.13 | 461 | 35.12 | 461 |
| 50 | 0 | 0 | 0 | 0.785 | 35.23 | 460 | 35.22 | 460 |
| 60 | 0 | 0 | 0 | 0.785 | 35.32 | 458 | 35.31 | 459 |
| 70 | 0 | 0 | 0 | 0.785 | 35.42 | 457 | 35.41 | 457 |
| 80 | 0 | 0 | 0 | 0.785 | 35.51 | 456 | 35.5 | 456 |
| 90 | 0 | 0 | 0 | 0.785 | 35.61 | 455 | 35.6 | 455 |
| 100 | 0 | 0 | 0 | 0.785 | 35.67 | 454 | 35.67 | 454 |
| 110 | 0 | 0 | 0 | 0.785 | 35.73 | 453 | 35.73 | 453 |
| 120 | 0 | 0 | 0 | 0.785 | 35.8 | 453 | 35.8 | 453 |
| 130 | 0 | 0 | 0 | 0.785 | 35.86 | 452 | 35.86 | 452 |
| 167 | 0 | 0 | 0 | 0.785 | 36.09 | 449 | 36.09 | 449 |
| 212 | 0 | 0 | 0 | 0.785 | 36.36 | 446 | 36.36 | 446 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 55.73 | 1000 | 55.73 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 55.41 | 465 | 55.4 | 465 |
| 30 | 0 | 0 | 0 | 0.785 | 55.74 | 462 | 55.74 | 462 |
| 40 | 0 | 0 | 0 | 0.785 | 55.84 | 461 | 55.83 | 461 |
| 50 | 0 | 0 | 0 | 0.785 | 55.94 | 461 | 55.93 | 461 |
| 60 | 0 | 0 | 0 | 0.785 | 56.03 | 460 | 56.02 | 460 |
| 70 | 0 | 0 | 0 | 0.785 | 56.13 | 459 | 56.12 | 459 |
| 80 | 0 | 0 | 0 | 0.785 | 56.23 | 458 | 56.21 | 459 |
| 90 | 0 | 0 | 0 | 0.785 | 56.32 | 458 | 56.31 | 458 |
| 100 | 0 | 0 | 0 | 0.785 | 56.39 | 457 | 56.39 | 457 |
| 110 | 0 | 0 | 0 | 0.785 | 56.45 | 457 | 56.45 | 457 |
| 120 | 0 | 0 | 0 | 0.785 | 56.51 | 456 | 56.51 | 456 |
| 130 | 0 | 0 | 0 | 0.785 | 56.57 | 456 | 56.57 | 456 |
| 167 | 0 | 0 | 0 | 0.785 | 56.8 | 454 | 56.8 | 454 |
| 212 | 0 | 0 | 0 | 0.785 | 57.08 | 452 | 57.08 | 452 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 |
| 100.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 125.00 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 150.00 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 |
| 175.00 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-4 |
| 200.00 | 8-2 | 8-7 | 8-11 | 9-3 | 9-8 | 10-0 | 10-3 | 10-7 | 10-9 | 10-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 |
| 100.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 125.00 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 150.00 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-10 | 5-11 | 6-0 | 6-2 |
| 175.00 | 6-3 | 6-7 | 6-10 | 7-2 | 7-5 | 7-8 | 7-11 | 8-1 | 8-3 | 8-4 |
| 200.00 | 8-2 | 8-7 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-7 | 10-9 | 10-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 |
| 125.00 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 |
| 150.00 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 |
| 175.00 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 |
| 200.00 | 8-5 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 |
| 225.00 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-8 |
| 250.00 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 |
| 125.00 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 |
| 150.00 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-2 |
| 175.00 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 |
| 200.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-2 | 9-3 |
| 225.00 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 | 11-8 |
| 250.00 | 13-3 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 |
| 175.00 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 |
| 200.00 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 |
| 225.00 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 |
| 250.00 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 |
| 275.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-10 | 16-11 |
| 300.00 | 19-4 | 19-5 | 19-6 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 |
| 325.00 | 22-8 | 22-10 | 22-11 | 23-1 | 23-2 | 23-3 | 23-5 | 23-6 | 23-7 | 23-8 |
| 350.00 | 26-4 | 26-6 | 26-8 | 26-9 | 26-11 | 27-0 | 27-2 | 27-3 | 27-5 | 27-6 |
| 375.00 | 30-4 | 30-6 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 | 31-4 | 31-6 | 31-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-0 |
| 175.00 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 |
| 200.00 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 |
| 225.00 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 |
| 250.00 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 13-11 | 14-0 |
| 275.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-10 | 16-11 |
| 300.00 | 19-4 | 19-5 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 |
| 325.00 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 |
| 350.00 | 26-5 | 26-6 | 26-8 | 26-9 | 26-11 | 27-1 | 27-2 | 27-4 | 27-5 | 27-6 |
| 375.00 | 30-4 | 30-6 | 30-8 | 30-9 | 30-11 | 31-1 | 31-3 | 31-5 | 31-6 | 31-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 |
| 225.00 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-3 |
| 250.00 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 |
| 275.00 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 | 16-9 | 16-10 |
| 300.00 | 19-7 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 |
| 325.00 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 | 23-6 | 23-6 |
| 350.00 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 | 27-4 |
| 375.00 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-4 |
| 400.00 | 34-11 | 35-0 | 35-1 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 |
| 425.00 | 39-6 | 39-7 | 39-8 | 39-10 | 39-11 | 40-0 | 40-2 | 40-3 | 40-4 | 40-5 |
| 450.00 | 44-4 | 44-5 | 44-7 | 44-8 | 44-10 | 44-11 | 45-1 | 45-2 | 45-3 | 45-4 |
| 475.00 | 49-5 | 49-7 | 49-9 | 49-10 | 50-0 | 50-2 | 50-3 | 50-5 | 50-6 | 50-7 |
| 500.00 | 54-10 | 55-0 | 55-2 | 55-4 | 55-6 | 55-8 | 55-10 | 55-11 | 56-1 | 56-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 |
| 225.00 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-2 | 11-3 |
| 250.00 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 |
| 275.00 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 | 16-9 | 16-10 |
| 300.00 | 19-7 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 |
| 325.00 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 | 23-6 | 23-6 |
| 350.00 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 | 27-4 |
| 375.00 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-4 |
| 400.00 | 34-11 | 35-0 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 |
| 425.00 | 39-6 | 39-7 | 39-8 | 39-10 | 39-11 | 40-0 | 40-2 | 40-3 | 40-4 | 40-5 |
| 450.00 | 44-4 | 44-5 | 44-7 | 44-8 | 44-10 | 44-11 | 45-1 | 45-2 | 45-3 | 45-4 |
| 475.00 | 49-5 | 49-7 | 49-9 | 49-11 | 50-0 | 50-2 | 50-3 | 50-5 | 50-6 | 50-7 |
| 500.00 | 54-11 | 55-1 | 55-2 | 55-4 | 55-6 | 55-8 | 55-10 | 56-0 | 56-1 | 56-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 |
| 275.00 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-11 |
| 300.00 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-0 | 20-1 | 20-1 | 20-1 |
| 325.00 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 | 23-6 | 23-7 | 23-7 | 23-7 |
| 350.00 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 |
| 375.00 | 31-1 | 31-2 | 31-2 | 31-3 | 31-3 | 31-4 | 31-5 | 31-5 | 31-6 | 31-6 |
| 400.00 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 | 35-8 | 35-9 | 35-10 | 35-11 | 35-11 |
| 425.00 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 |
| 450.00 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 | 45-5 | 45-6 | 45-6 | 45-7 |
| 475.00 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 | 50-10 | 50-10 |
| 500.00 | 55-8 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-3 | 56-4 | 56-5 | 56-5 |
| 525.00 | 61-5 | 61-7 | 61-8 | 61-9 | 61-10 | 62-0 | 62-1 | 62-2 | 62-3 | 62-4 |
| 550.00 | 67-6 | 67-8 | 67-9 | 67-11 | 68-0 | 68-2 | 68-3 | 68-4 | 68-6 | 68-6 |
| 575.00 | 73-11 | 74-1 | 74-3 | 74-4 | 74-6 | 74-7 | 74-9 | 74-10 | 75-0 | 75-1 |
| 600.00 | 80-8 | 80-10 | 81-0 | 81-1 | 81-3 | 81-5 | 81-6 | 81-8 | 81-9 | 81-10 |
| 625.00 | 87-8 | 87-10 | 88-0 | 88-2 | 88-4 | 88-6 | 88-8 | 88-10 | 88-11 | 89-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 |
| 275.00 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-11 |
| 300.00 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-0 | 20-1 | 20-1 | 20-1 |
| 325.00 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 | 23-6 | 23-7 | 23-7 | 23-7 |
| 350.00 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 |
| 375.00 | 31-1 | 31-2 | 31-2 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-6 | 31-6 |
| 400.00 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 | 35-9 | 35-9 | 35-10 | 35-11 | 35-11 |
| 425.00 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 |
| 450.00 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 | 45-5 | 45-6 | 45-6 | 45-7 |
| 475.00 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 | 50-10 | 50-10 |
| 500.00 | 55-8 | 55-9 | 55-10 | 55-11 | 56-0 | 56-2 | 56-3 | 56-4 | 56-5 | 56-5 |
| 525.00 | 61-5 | 61-7 | 61-8 | 61-9 | 61-11 | 62-0 | 62-1 | 62-2 | 62-3 | 62-4 |
| 550.00 | 67-7 | 67-8 | 67-10 | 67-11 | 68-0 | 68-2 | 68-3 | 68-5 | 68-6 | 68-6 |
| 575.00 | 74-0 | 74-1 | 74-3 | 74-4 | 74-6 | 74-7 | 74-9 | 74-11 | 75-0 | 75-1 |
| 600.00 | 80-8 | 80-10 | 81-0 | 81-1 | 81-3 | 81-5 | 81-7 | 81-8 | 81-9 | 81-10 |
| 625.00 | 87-9 | 87-11 | 88-1 | 88-2 | 88-4 | 88-6 | 88-8 | 88-10 | 88-11 | 89-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 1.42 | 1500 | 1.42 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 0.94 | 1041 | 0.94 | 1049 |
| 30 | 0 | 0 | 0 | 0.785 | 1.39 | 708 | 1.37 | 717 |
| 40 | 0 | 0 | 0 | 0.785 | 1.52 | 648 | 1.5 | 656 |
| 50 | 0 | 0 | 0 | 0.785 | 1.64 | 600 | 1.62 | 607 |
| 60 | 0 | 0 | 0 | 0.785 | 1.75 | 560 | 1.73 | 567 |
| 70 | 0 | 0 | 0 | 0.785 | 1.86 | 528 | 1.84 | 533 |
| 80 | 0 | 0 | 0 | 0.785 | 1.97 | 500 | 1.95 | 505 |
| 90 | 0 | 0 | 0 | 0.785 | 2.06 | 476 | 2.04 | 481 |
| 100 | 0 | 0 | 0 | 0.785 | 2.12 | 463 | 2.12 | 463 |
| 110 | 0 | 0 | 0 | 0.785 | 2.18 | 451 | 2.18 | 451 |
| 120 | 0 | 0 | 0 | 0.785 | 2.24 | 440 | 2.24 | 440 |
| 130 | 0 | 0 | 0 | 0.785 | 2.29 | 429 | 2.29 | 429 |
| 167 | 0 | 0 | 0 | 0.785 | 2.49 | 396 | 2.49 | 396 |
| 212 | 0 | 0 | 0 | 0.785 | 2.71 | 363 | 2.71 | 363 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 5.69 | 1498 | 5.68 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 5.19 | 758 | 5.15 | 764 |
| 30 | 0 | 0 | 0 | 0.785 | 5.66 | 696 | 5.63 | 700 |
| 40 | 0 | 0 | 0 | 0.785 | 5.8 | 679 | 5.77 | 683 |
| 50 | 0 | 0 | 0 | 0.785 | 5.94 | 663 | 5.91 | 667 |
| 60 | 0 | 0 | 0 | 0.785 | 6.07 | 649 | 6.04 | 652 |
| 70 | 0 | 0 | 0 | 0.785 | 6.21 | 635 | 6.17 | 638 |
| 80 | 0 | 0 | 0 | 0.785 | 6.34 | 622 | 6.3 | 625 |
| 90 | 0 | 0 | 0 | 0.785 | 6.46 | 610 | 6.43 | 613 |
| 100 | 0 | 0 | 0 | 0.785 | 6.59 | 599 | 6.55 | 601 |
| 110 | 0 | 0 | 0 | 0.785 | 6.66 | 592 | 6.66 | 592 |
| 120 | 0 | 0 | 0 | 0.785 | 6.74 | 585 | 6.74 | 585 |
| 130 | 0 | 0 | 0 | 0.785 | 6.82 | 578 | 6.82 | 578 |
| 167 | 0 | 0 | 0 | 0.785 | 7.09 | 556 | 7.09 | 556 |
| 212 | 0 | 0 | 0 | 0.785 | 7.42 | 532 | 7.42 | 532 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 12.85 | 1498 | 12.83 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 12.35 | 720 | 12.3 | 723 |
| 30 | 0 | 0 | 0 | 0.785 | 12.81 | 694 | 12.78 | 696 |
| 40 | 0 | 0 | 0 | 0.785 | 12.96 | 687 | 12.92 | 688 |
| 50 | 0 | 0 | 0 | 0.785 | 13.1 | 679 | 13.06 | 681 |
| 60 | 0 | 0 | 0 | 0.785 | 13.24 | 672 | 13.2 | 674 |
| 70 | 0 | 0 | 0 | 0.785 | 13.38 | 665 | 13.34 | 667 |
| 80 | 0 | 0 | 0 | 0.785 | 13.52 | 659 | 13.48 | 660 |
| 90 | 0 | 0 | 0 | 0.785 | 13.66 | 652 | 13.62 | 654 |
| 100 | 0 | 0 | 0 | 0.785 | 13.79 | 646 | 13.75 | 648 |
| 110 | 0 | 0 | 0 | 0.785 | 13.89 | 641 | 13.88 | 642 |
| 120 | 0 | 0 | 0 | 0.785 | 13.98 | 637 | 13.98 | 637 |
| 130 | 0 | 0 | 0 | 0.785 | 14.06 | 634 | 14.06 | 634 |
| 167 | 0 | 0 | 0 | 0.785 | 14.37 | 620 | 14.37 | 620 |
| 212 | 0 | 0 | 0 | 0.785 | 14.74 | 605 | 14.74 | 605 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 22.96 | 1499 | 22.95 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 22.47 | 708 | 22.42 | 709 |
| 30 | 0 | 0 | 0 | 0.785 | 22.93 | 694 | 22.89 | 695 |
| 40 | 0 | 0 | 0 | 0.785 | 23.07 | 689 | 23.04 | 691 |
| 50 | 0 | 0 | 0 | 0.785 | 23.22 | 685 | 23.18 | 686 |
| 60 | 0 | 0 | 0 | 0.785 | 23.36 | 681 | 23.32 | 682 |
| 70 | 0 | 0 | 0 | 0.785 | 23.5 | 677 | 23.46 | 678 |
| 80 | 0 | 0 | 0 | 0.785 | 23.65 | 673 | 23.6 | 674 |
| 90 | 0 | 0 | 0 | 0.785 | 23.79 | 669 | 23.74 | 671 |
| 100 | 0 | 0 | 0 | 0.785 | 23.93 | 666 | 23.88 | 667 |
| 110 | 0 | 0 | 0 | 0.785 | 24.04 | 663 | 24.02 | 663 |
| 120 | 0 | 0 | 0 | 0.785 | 24.13 | 660 | 24.13 | 660 |
| 130 | 0 | 0 | 0 | 0.785 | 24.22 | 658 | 24.22 | 658 |
| 167 | 0 | 0 | 0 | 0.785 | 24.54 | 649 | 24.54 | 649 |
| 212 | 0 | 0 | 0 | 0.785 | 24.93 | 639 | 24.93 | 639 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 36.14 | 1499 | 36.13 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 35.65 | 702 | 35.6 | 703 |
| 30 | 0 | 0 | 0 | 0.785 | 36.11 | 694 | 36.07 | 694 |
| 40 | 0 | 0 | 0 | 0.785 | 36.26 | 691 | 36.22 | 692 |
| 50 | 0 | 0 | 0 | 0.785 | 36.4 | 688 | 36.36 | 689 |
| 60 | 0 | 0 | 0 | 0.785 | 36.55 | 686 | 36.5 | 686 |
| 70 | 0 | 0 | 0 | 0.785 | 36.69 | 683 | 36.65 | 684 |
| 80 | 0 | 0 | 0 | 0.785 | 36.83 | 681 | 36.79 | 681 |
| 90 | 0 | 0 | 0 | 0.785 | 36.97 | 678 | 36.93 | 679 |
| 100 | 0 | 0 | 0 | 0.785 | 37.12 | 676 | 37.07 | 676 |
| 110 | 0 | 0 | 0 | 0.785 | 37.23 | 673 | 37.21 | 674 |
| 120 | 0 | 0 | 0 | 0.785 | 37.33 | 672 | 37.33 | 672 |
| 130 | 0 | 0 | 0 | 0.785 | 37.42 | 670 | 37.42 | 670 |
| 167 | 0 | 0 | 0 | 0.785 | 37.75 | 665 | 37.75 | 665 |
| 212 | 0 | 0 | 0 | 0.785 | 38.16 | 658 | 38.16 | 658 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-1 | 2-2 |
| 125.00 | 1-11 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 |
| 150.00 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 |
| 175.00 | 3-9 | 4-2 | 4-7 | 5-0 | 5-4 | 5-8 | 6-0 | 6-3 | 6-6 | 6-8 |
| 200.00 | 4-11 | 5-6 | 6-0 | 6-6 | 6-11 | 7-5 | 7-10 | 8-2 | 8-6 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-1 | 2-2 |
| 125.00 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-5 |
| 150.00 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-9 | 4-11 |
| 175.00 | 3-10 | 4-3 | 4-8 | 5-0 | 5-4 | 5-9 | 6-0 | 6-4 | 6-6 | 6-8 |
| 200.00 | 5-0 | 5-7 | 6-1 | 6-7 | 7-0 | 7-6 | 7-11 | 8-3 | 8-6 | 8-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 |
| 125.00 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 150.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 |
| 175.00 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 200.00 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 |
| 225.00 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-5 |
| 250.00 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-8 | 9-10 | 10-1 | 10-3 | 10-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 |
| 125.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 150.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 |
| 175.00 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 200.00 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 | 6-8 |
| 225.00 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-5 |
| 250.00 | 8-7 | 8-10 | 9-1 | 9-3 | 9-6 | 9-8 | 9-11 | 10-1 | 10-4 | 10-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 175.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 |
| 200.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 |
| 225.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 250.00 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-8 |
| 275.00 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 |
| 300.00 | 12-8 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 |
| 325.00 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 |
| 350.00 | 17-3 | 17-5 | 17-7 | 17-10 | 18-0 | 18-2 | 18-4 | 18-7 | 18-9 | 18-11 |
| 375.00 | 19-9 | 20-0 | 20-3 | 20-5 | 20-8 | 20-11 | 21-1 | 21-4 | 21-6 | 21-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 175.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 |
| 200.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 |
| 225.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 250.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 |
| 275.00 | 10-8 | 10-9 | 10-11 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 |
| 300.00 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 | 13-6 | 13-8 | 13-10 | 13-11 |
| 325.00 | 14-10 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-10 | 16-0 | 16-2 | 16-4 |
| 350.00 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 |
| 375.00 | 19-10 | 20-1 | 20-3 | 20-6 | 20-9 | 20-11 | 21-2 | 21-4 | 21-7 | 21-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 6-0 |
| 225.00 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 |
| 250.00 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 |
| 275.00 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-2 | 11-3 | 11-4 |
| 300.00 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 |
| 325.00 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 |
| 350.00 | 17-5 | 17-6 | 17-7 | 17-9 | 17-10 | 17-11 | 18-1 | 18-2 | 18-3 | 18-4 |
| 375.00 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-9 | 20-10 | 21-0 | 21-1 |
| 400.00 | 22-9 | 22-11 | 23-0 | 23-2 | 23-4 | 23-6 | 23-7 | 23-9 | 23-11 | 24-0 |
| 425.00 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 | 26-10 | 27-0 | 27-2 |
| 450.00 | 28-10 | 29-0 | 29-2 | 29-4 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 | 30-5 |
| 475.00 | 32-2 | 32-4 | 32-7 | 32-9 | 32-11 | 33-2 | 33-4 | 33-7 | 33-9 | 33-11 |
| 500.00 | 35-8 | 35-10 | 36-1 | 36-4 | 36-6 | 36-9 | 37-0 | 37-2 | 37-5 | 37-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 |
| 225.00 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 |
| 250.00 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 |
| 275.00 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 |
| 300.00 | 12-10 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 |
| 325.00 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 |
| 350.00 | 17-5 | 17-6 | 17-8 | 17-9 | 17-10 | 18-0 | 18-1 | 18-2 | 18-4 | 18-5 |
| 375.00 | 20-0 | 20-2 | 20-3 | 20-5 | 20-6 | 20-8 | 20-9 | 20-11 | 21-0 | 21-1 |
| 400.00 | 22-9 | 22-11 | 23-1 | 23-3 | 23-4 | 23-6 | 23-8 | 23-9 | 23-11 | 24-0 |
| 425.00 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 | 26-7 | 26-9 | 26-10 | 27-0 | 27-2 |
| 450.00 | 28-10 | 29-1 | 29-3 | 29-5 | 29-7 | 29-9 | 30-0 | 30-2 | 30-4 | 30-6 |
| 475.00 | 32-2 | 32-5 | 32-7 | 32-10 | 33-0 | 33-2 | 33-5 | 33-7 | 33-10 | 34-0 |
| 500.00 | 35-8 | 35-11 | 36-2 | 36-4 | 36-7 | 36-10 | 37-1 | 37-3 | 37-6 | 37-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 |
| 275.00 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 |
| 300.00 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 |
| 325.00 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 | 15-6 | 15-7 | 15-8 |
| 350.00 | 17-7 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-2 |
| 375.00 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-10 |
| 400.00 | 22-11 | 23-0 | 23-1 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 |
| 425.00 | 25-11 | 26-0 | 26-1 | 26-3 | 26-4 | 26-5 | 26-6 | 26-8 | 26-9 | 26-10 |
| 450.00 | 29-1 | 29-2 | 29-4 | 29-5 | 29-6 | 29-8 | 29-9 | 29-10 | 30-0 | 30-1 |
| 475.00 | 32-5 | 32-6 | 32-8 | 32-10 | 32-11 | 33-1 | 33-2 | 33-4 | 33-5 | 33-7 |
| 500.00 | 35-11 | 36-1 | 36-3 | 36-4 | 36-6 | 36-8 | 36-9 | 36-11 | 37-1 | 37-3 |
| 525.00 | 39-8 | 39-10 | 39-11 | 40-1 | 40-3 | 40-5 | 40-7 | 40-9 | 40-11 | 41-1 |
| 550.00 | 43-6 | 43-9 | 43-11 | 44-1 | 44-3 | 44-5 | 44-7 | 44-9 | 44-11 | 45-1 |
| 575.00 | 47-7 | 47-10 | 48-0 | 48-2 | 48-5 | 48-7 | 48-9 | 48-11 | 49-2 | 49-4 |
| 600.00 | 51-11 | 52-1 | 52-4 | 52-6 | 52-9 | 52-11 | 53-2 | 53-4 | 53-7 | 53-9 |
| 625.00 | 56-4 | 56-7 | 56-10 | 57-0 | 57-3 | 57-6 | 57-9 | 57-11 | 58-2 | 58-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 |
| 275.00 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 |
| 300.00 | 12-11 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 | 13-4 | 13-4 |
| 325.00 | 15-2 | 15-2 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 |
| 350.00 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-1 | 18-2 |
| 375.00 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 |
| 400.00 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 |
| 425.00 | 25-11 | 26-0 | 26-2 | 26-3 | 26-4 | 26-5 | 26-7 | 26-8 | 26-9 | 26-10 |
| 450.00 | 29-1 | 29-3 | 29-4 | 29-5 | 29-7 | 29-8 | 29-10 | 29-11 | 30-0 | 30-1 |
| 475.00 | 32-5 | 32-7 | 32-8 | 32-10 | 33-0 | 33-1 | 33-3 | 33-4 | 33-6 | 33-7 |
| 500.00 | 36-0 | 36-1 | 36-3 | 36-5 | 36-7 | 36-8 | 36-10 | 37-0 | 37-1 | 37-3 |
| 525.00 | 39-8 | 39-10 | 40-0 | 40-2 | 40-4 | 40-6 | 40-8 | 40-10 | 40-11 | 41-1 |
| 550.00 | 43-7 | 43-9 | 43-11 | 44-1 | 44-3 | 44-6 | 44-8 | 44-10 | 45-0 | 45-1 |
| 575.00 | 47-8 | 47-10 | 48-1 | 48-3 | 48-5 | 48-8 | 48-10 | 49-0 | 49-2 | 49-4 |
| 600.00 | 51-11 | 52-2 | 52-4 | 52-7 | 52-9 | 53-0 | 53-2 | 53-5 | 53-7 | 53-9 |
| 625.00 | 56-5 | 56-8 | 56-10 | 57-1 | 57-4 | 57-7 | 57-9 | 58-0 | 58-3 | 58-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 1.07 | 1988 | 1.06 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 0.51 | 1910 | 0.51 | 1923 |
| 30 | 0 | 0 | 0 | 0.785 | 0.97 | 1011 | 0.93 | 1051 |
| 40 | 0 | 0 | 0 | 0.785 | 1.13 | 872 | 1.09 | 903 |
| 50 | 0 | 0 | 0 | 0.785 | 1.27 | 771 | 1.23 | 797 |
| 60 | 0 | 0 | 0 | 0.785 | 1.41 | 697 | 1.37 | 717 |
| 70 | 0 | 0 | 0 | 0.785 | 1.54 | 639 | 1.5 | 656 |
| 80 | 0 | 0 | 0 | 0.785 | 1.66 | 592 | 1.62 | 607 |
| 90 | 0 | 0 | 0 | 0.785 | 1.77 | 554 | 1.73 | 567 |
| 100 | 0 | 0 | 0 | 0.785 | 1.85 | 532 | 1.84 | 533 |
| 110 | 0 | 0 | 0 | 0.785 | 1.91 | 514 | 1.91 | 514 |
| 120 | 0 | 0 | 0 | 0.785 | 1.97 | 498 | 1.97 | 498 |
| 130 | 0 | 0 | 0 | 0.785 | 2.03 | 484 | 2.03 | 484 |
| 167 | 0 | 0 | 0 | 0.785 | 2.24 | 438 | 2.24 | 438 |
| 212 | 0 | 0 | 0 | 0.785 | 2.48 | 396 | 2.48 | 396 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 4.3 | 1979 | 4.25 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 3.6 | 1092 | 3.51 | 1118 |
| 30 | 0 | 0 | 0 | 0.785 | 4.19 | 939 | 4.1 | 959 |
| 40 | 0 | 0 | 0 | 0.785 | 4.37 | 900 | 4.28 | 918 |
| 50 | 0 | 0 | 0 | 0.785 | 4.55 | 865 | 4.46 | 882 |
| 60 | 0 | 0 | 0 | 0.785 | 4.72 | 834 | 4.63 | 849 |
| 70 | 0 | 0 | 0 | 0.785 | 4.88 | 806 | 4.8 | 820 |
| 80 | 0 | 0 | 0 | 0.785 | 5.04 | 780 | 4.96 | 794 |
| 90 | 0 | 0 | 0 | 0.785 | 5.2 | 757 | 5.11 | 769 |
| 100 | 0 | 0 | 0 | 0.785 | 5.35 | 736 | 5.27 | 747 |
| 110 | 0 | 0 | 0 | 0.785 | 5.46 | 721 | 5.42 | 727 |
| 120 | 0 | 0 | 0 | 0.785 | 5.55 | 709 | 5.55 | 709 |
| 130 | 0 | 0 | 0 | 0.785 | 5.64 | 698 | 5.64 | 698 |
| 167 | 0 | 0 | 0 | 0.785 | 5.96 | 661 | 5.96 | 661 |
| 212 | 0 | 0 | 0 | 0.785 | 6.33 | 622 | 6.33 | 622 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 9.66 | 1987 | 9.59 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 8.95 | 990 | 8.85 | 1002 |
| 30 | 0 | 0 | 0 | 0.785 | 9.54 | 930 | 9.44 | 940 |
| 40 | 0 | 0 | 0 | 0.785 | 9.73 | 912 | 9.62 | 921 |
| 50 | 0 | 0 | 0 | 0.785 | 9.91 | 895 | 9.81 | 904 |
| 60 | 0 | 0 | 0 | 0.785 | 10.09 | 879 | 9.99 | 888 |
| 70 | 0 | 0 | 0 | 0.785 | 10.27 | 864 | 10.17 | 872 |
| 80 | 0 | 0 | 0 | 0.785 | 10.45 | 849 | 10.35 | 858 |
| 90 | 0 | 0 | 0 | 0.785 | 10.62 | 835 | 10.52 | 844 |
| 100 | 0 | 0 | 0 | 0.785 | 10.8 | 822 | 10.69 | 830 |
| 110 | 0 | 0 | 0 | 0.785 | 10.96 | 810 | 10.86 | 818 |
| 120 | 0 | 0 | 0 | 0.785 | 11.06 | 803 | 11.03 | 805 |
| 130 | 0 | 0 | 0 | 0.785 | 11.17 | 795 | 11.17 | 795 |
| 167 | 0 | 0 | 0 | 0.785 | 11.55 | 769 | 11.55 | 769 |
| 212 | 0 | 0 | 0 | 0.785 | 11.99 | 741 | 11.99 | 741 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 17.18 | 1992 | 17.11 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 16.47 | 960 | 16.36 | 966 |
| 30 | 0 | 0 | 0 | 0.785 | 17.06 | 927 | 16.95 | 933 |
| 40 | 0 | 0 | 0 | 0.785 | 17.25 | 917 | 17.14 | 923 |
| 50 | 0 | 0 | 0 | 0.785 | 17.44 | 907 | 17.33 | 913 |
| 60 | 0 | 0 | 0 | 0.785 | 17.63 | 898 | 17.51 | 903 |
| 70 | 0 | 0 | 0 | 0.785 | 17.81 | 888 | 17.7 | 894 |
| 80 | 0 | 0 | 0 | 0.785 | 18 | 879 | 17.88 | 885 |
| 90 | 0 | 0 | 0 | 0.785 | 18.18 | 871 | 18.06 | 876 |
| 100 | 0 | 0 | 0 | 0.785 | 18.36 | 862 | 18.24 | 868 |
| 110 | 0 | 0 | 0 | 0.785 | 18.54 | 854 | 18.42 | 860 |
| 120 | 0 | 0 | 0 | 0.785 | 18.66 | 849 | 18.6 | 851 |
| 130 | 0 | 0 | 0 | 0.785 | 18.78 | 844 | 18.77 | 844 |
| 167 | 0 | 0 | 0 | 0.785 | 19.19 | 826 | 19.19 | 826 |
| 212 | 0 | 0 | 0 | 0.785 | 19.68 | 806 | 19.68 | 806 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 26.92 | 1995 | 26.85 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 26.21 | 946 | 26.09 | 950 |
| 30 | 0 | 0 | 0 | 0.785 | 26.8 | 926 | 26.69 | 930 |
| 40 | 0 | 0 | 0 | 0.785 | 26.99 | 919 | 26.88 | 923 |
| 50 | 0 | 0 | 0 | 0.785 | 27.18 | 913 | 27.07 | 917 |
| 60 | 0 | 0 | 0 | 0.785 | 27.37 | 907 | 27.25 | 911 |
| 70 | 0 | 0 | 0 | 0.785 | 27.56 | 901 | 27.44 | 905 |
| 80 | 0 | 0 | 0 | 0.785 | 27.75 | 895 | 27.63 | 899 |
| 90 | 0 | 0 | 0 | 0.785 | 27.93 | 889 | 27.81 | 893 |
| 100 | 0 | 0 | 0 | 0.785 | 28.12 | 883 | 28 | 887 |
| 110 | 0 | 0 | 0 | 0.785 | 28.3 | 878 | 28.18 | 882 |
| 120 | 0 | 0 | 0 | 0.785 | 28.44 | 874 | 28.36 | 876 |
| 130 | 0 | 0 | 0 | 0.785 | 28.56 | 870 | 28.54 | 871 |
| 167 | 0 | 0 | 0 | 0.785 | 28.99 | 857 | 28.99 | 857 |
| 212 | 0 | 0 | 0 | 0.785 | 29.51 | 843 | 29.51 | 843 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-0 |
| 150.00 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-2 | 4-4 |
| 175.00 | 2-5 | 2-10 | 3-4 | 3-9 | 4-2 | 4-7 | 5-0 | 5-4 | 5-8 | 5-10 |
| 200.00 | 3-1 | 3-9 | 4-4 | 4-11 | 5-6 | 6-0 | 6-6 | 6-11 | 7-5 | 7-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-3 | 1-6 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 |
| 150.00 | 1-10 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-0 | 4-2 | 4-4 |
| 175.00 | 2-6 | 3-0 | 3-5 | 3-11 | 4-4 | 4-9 | 5-1 | 5-5 | 5-8 | 5-10 |
| 200.00 | 3-3 | 3-11 | 4-6 | 5-1 | 5-8 | 6-2 | 6-8 | 7-1 | 7-5 | 7-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 |
| 175.00 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 |
| 200.00 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-5 |
| 225.00 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 |
| 250.00 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 125.00 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 |
| 150.00 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 175.00 | 3-1 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 |
| 200.00 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 |
| 225.00 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 |
| 250.00 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-8 | 7-11 | 8-2 | 8-4 | 8-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 175.00 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 |
| 200.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 225.00 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 250.00 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 |
| 275.00 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-1 |
| 300.00 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 |
| 325.00 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-7 | 12-9 |
| 350.00 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-7 | 14-9 |
| 375.00 | 14-5 | 14-9 | 15-1 | 15-4 | 15-7 | 15-11 | 16-2 | 16-5 | 16-9 | 17-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 |
| 175.00 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 |
| 200.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 |
| 225.00 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 |
| 250.00 | 6-6 | 6-7 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 |
| 275.00 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-2 |
| 300.00 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-10 | 10-11 |
| 325.00 | 11-0 | 11-2 | 11-5 | 11-8 | 11-10 | 12-1 | 12-3 | 12-6 | 12-8 | 12-10 |
| 350.00 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 | 14-8 | 14-11 |
| 375.00 | 14-7 | 14-11 | 15-3 | 15-6 | 15-9 | 16-1 | 16-4 | 16-7 | 16-11 | 17-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 225.00 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 |
| 250.00 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 |
| 275.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 300.00 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-4 |
| 325.00 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-2 |
| 350.00 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-1 |
| 375.00 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-10 | 16-0 | 16-2 |
| 400.00 | 16-9 | 16-11 | 17-2 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 | 18-5 |
| 425.00 | 18-11 | 19-2 | 19-4 | 19-7 | 19-9 | 20-0 | 20-2 | 20-5 | 20-7 | 20-10 |
| 450.00 | 21-3 | 21-6 | 21-8 | 21-11 | 22-2 | 22-5 | 22-8 | 22-11 | 23-1 | 23-4 |
| 475.00 | 23-8 | 23-11 | 24-2 | 24-6 | 24-9 | 25-0 | 25-3 | 25-6 | 25-9 | 26-0 |
| 500.00 | 26-3 | 26-6 | 26-10 | 27-1 | 27-5 | 27-8 | 28-0 | 28-3 | 28-7 | 28-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 225.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 |
| 250.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 |
| 275.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 300.00 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 | 10-3 | 10-4 | 10-5 |
| 325.00 | 11-1 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 | 12-3 |
| 350.00 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 | 14-2 |
| 375.00 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-3 |
| 400.00 | 16-10 | 17-1 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 |
| 425.00 | 19-1 | 19-3 | 19-6 | 19-8 | 19-11 | 20-1 | 20-4 | 20-6 | 20-9 | 20-11 |
| 450.00 | 21-4 | 21-7 | 21-10 | 22-1 | 22-4 | 22-7 | 22-10 | 23-0 | 23-3 | 23-6 |
| 475.00 | 23-10 | 24-1 | 24-4 | 24-7 | 24-11 | 25-2 | 25-5 | 25-8 | 25-11 | 26-2 |
| 500.00 | 26-5 | 26-8 | 27-0 | 27-3 | 27-7 | 27-10 | 28-2 | 28-5 | 28-9 | 29-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



OH812.263

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 |
| 275.00 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 |
| 300.00 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 |
| 325.00 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 |
| 350.00 | 12-11 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 |
| 375.00 | 14-11 | 15-0 | 15-1 | 15-2 | 15-4 | 15-5 | 15-6 | 15-7 | 15-9 | 15-10 |
| 400.00 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 | 17-8 | 17-9 | 17-11 | 18-0 |
| 425.00 | 19-1 | 19-3 | 19-5 | 19-6 | 19-8 | 19-10 | 19-11 | 20-1 | 20-2 | 20-4 |
| 450.00 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 | 22-4 | 22-6 | 22-8 | 22-10 |
| 475.00 | 23-11 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-5 |
| 500.00 | 26-6 | 26-8 | 26-11 | 27-1 | 27-3 | 27-5 | 27-8 | 27-10 | 28-0 | 28-2 |
| 525.00 | 29-3 | 29-5 | 29-8 | 29-10 | 30-1 | 30-3 | 30-6 | 30-8 | 30-11 | 31-1 |
| 550.00 | 32-1 | 32-4 | 32-7 | 32-9 | 33-0 | 33-3 | 33-6 | 33-8 | 33-11 | 34-2 |
| 575.00 | 35-1 | 35-4 | 35-7 | 35-10 | 36-1 | 36-4 | 36-7 | 36-10 | 37-1 | 37-4 |
| 600.00 | 38-3 | 38-6 | 38-9 | 39-1 | 39-4 | 39-7 | 39-10 | 40-1 | 40-5 | 40-8 |
| 625.00 | 41-6 | 41-9 | 42-1 | 42-5 | 42-8 | 43-0 | 43-3 | 43-7 | 43-10 | 44-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 |
| 275.00 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 |
| 300.00 | 9-7 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 |
| 325.00 | 11-3 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 |
| 350.00 | 13-0 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 |
| 375.00 | 14-11 | 15-1 | 15-2 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 | 15-9 | 15-11 |
| 400.00 | 17-0 | 17-2 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 |
| 425.00 | 19-2 | 19-4 | 19-6 | 19-7 | 19-9 | 19-11 | 20-0 | 20-2 | 20-4 | 20-5 |
| 450.00 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-7 | 22-9 | 22-11 |
| 475.00 | 24-0 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 |
| 500.00 | 26-7 | 26-10 | 27-0 | 27-2 | 27-4 | 27-7 | 27-9 | 27-11 | 28-1 | 28-4 |
| 525.00 | 29-4 | 29-7 | 29-9 | 30-0 | 30-2 | 30-5 | 30-7 | 30-10 | 31-0 | 31-3 |
| 550.00 | 32-3 | 32-5 | 32-8 | 32-11 | 33-2 | 33-5 | 33-7 | 33-10 | 34-1 | 34-3 |
| 575.00 | 35-3 | 35-6 | 35-9 | 36-0 | 36-3 | 36-6 | 36-9 | 37-0 | 37-3 | 37-6 |
| 600.00 | 38-4 | 38-8 | 38-11 | 39-3 | 39-6 | 39-9 | 40-0 | 40-4 | 40-7 | 40-10 |
| 625.00 | 41-8 | 42-0 | 42-3 | 42-7 | 42-10 | 43-2 | 43-5 | 43-9 | 44-0 | 44-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 0.87 | 2446 | 0.85 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 0.35 | 2764 | 0.35 | 2791 |
| 30 | 0 | 0 | 0 | 0.785 | 0.71 | 1385 | 0.65 | 1506 |
| 40 | 0 | 0 | 0 | 0.785 | 0.87 | 1129 | 0.8 | 1227 |
| 50 | 0 | 0 | 0 | 0.785 | 1.03 | 954 | 0.95 | 1028 |
| 60 | 0 | 0 | 0 | 0.785 | 1.18 | 831 | 1.11 | 887 |
| 70 | 0 | 0 | 0 | 0.785 | 1.32 | 741 | 1.25 | 784 |
| 80 | 0 | 0 | 0 | 0.785 | 1.46 | 673 | 1.39 | 708 |
| 90 | 0 | 0 | 0 | 0.785 | 1.58 | 620 | 1.52 | 648 |
| 100 | 0 | 0 | 0 | 0.785 | 1.66 | 591 | 1.64 | 600 |
| 110 | 0 | 0 | 0 | 0.785 | 1.73 | 568 | 1.73 | 568 |
| 120 | 0 | 0 | 0 | 0.785 | 1.79 | 547 | 1.79 | 547 |
| 130 | 0 | 0 | 0 | 0.785 | 1.86 | 529 | 1.86 | 529 |
| 167 | 0 | 0 | 0 | 0.785 | 2.08 | 472 | 2.08 | 472 |
| 212 | 0 | 0 | 0 | 0.785 | 2.34 | 421 | 2.34 | 421 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 3.49 | 2440 | 3.4 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 2.56 | 1534 | 2.41 | 1627 |
| 30 | 0 | 0 | 0 | 0.785 | 3.27 | 1202 | 3.11 | 1262 |
| 40 | 0 | 0 | 0 | 0.785 | 3.49 | 1127 | 3.33 | 1179 |
| 50 | 0 | 0 | 0 | 0.785 | 3.7 | 1063 | 3.54 | 1109 |
| 60 | 0 | 0 | 0 | 0.785 | 3.9 | 1009 | 3.75 | 1049 |
| 70 | 0 | 0 | 0 | 0.785 | 4.09 | 961 | 3.94 | 998 |
| 80 | 0 | 0 | 0 | 0.785 | 4.28 | 920 | 4.13 | 952 |
| 90 | 0 | 0 | 0 | 0.785 | 4.45 | 883 | 4.31 | 912 |
| 100 | 0 | 0 | 0 | 0.785 | 4.63 | 850 | 4.49 | 877 |
| 110 | 0 | 0 | 0 | 0.785 | 4.76 | 826 | 4.66 | 845 |
| 120 | 0 | 0 | 0 | 0.785 | 4.86 | 810 | 4.82 | 816 |
| 130 | 0 | 0 | 0 | 0.785 | 4.96 | 793 | 4.96 | 793 |
| 167 | 0 | 0 | 0 | 0.785 | 5.31 | 741 | 5.31 | 741 |
| 212 | 0 | 0 | 0 | 0.785 | 5.72 | 689 | 5.72 | 689 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 7.78 | 2462 | 7.66 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 6.82 | 1298 | 6.63 | 1335 |
| 30 | 0 | 0 | 0 | 0.785 | 7.55 | 1173 | 7.36 | 1203 |
| 40 | 0 | 0 | 0 | 0.785 | 7.78 | 1138 | 7.59 | 1167 |
| 50 | 0 | 0 | 0 | 0.785 | 8.01 | 1106 | 7.82 | 1133 |
| 60 | 0 | 0 | 0 | 0.785 | 8.23 | 1077 | 8.04 | 1102 |
| 70 | 0 | 0 | 0 | 0.785 | 8.44 | 1050 | 8.25 | 1073 |
| 80 | 0 | 0 | 0 | 0.785 | 8.65 | 1024 | 8.46 | 1047 |
| 90 | 0 | 0 | 0 | 0.785 | 8.86 | 1001 | 8.67 | 1022 |
| 100 | 0 | 0 | 0 | 0.785 | 9.06 | 978 | 8.87 | 999 |
| 110 | 0 | 0 | 0 | 0.785 | 9.26 | 958 | 9.07 | 977 |
| 120 | 0 | 0 | 0 | 0.785 | 9.39 | 944 | 9.27 | 956 |
| 130 | 0 | 0 | 0 | 0.785 | 9.51 | 932 | 9.46 | 937 |
| 167 | 0 | 0 | 0 | 0.785 | 9.95 | 892 | 9.95 | 892 |
| 212 | 0 | 0 | 0 | 0.785 | 10.45 | 849 | 10.45 | 849 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 13.79 | 2476 | 13.65 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 12.81 | 1230 | 12.61 | 1250 |
| 30 | 0 | 0 | 0 | 0.785 | 13.55 | 1164 | 13.34 | 1182 |
| 40 | 0 | 0 | 0 | 0.785 | 13.78 | 1145 | 13.58 | 1162 |
| 50 | 0 | 0 | 0 | 0.785 | 14.02 | 1126 | 13.81 | 1142 |
| 60 | 0 | 0 | 0 | 0.785 | 14.24 | 1108 | 14.04 | 1124 |
| 70 | 0 | 0 | 0 | 0.785 | 14.47 | 1091 | 14.26 | 1106 |
| 80 | 0 | 0 | 0 | 0.785 | 14.69 | 1074 | 14.49 | 1090 |
| 90 | 0 | 0 | 0 | 0.785 | 14.91 | 1059 | 14.71 | 1073 |
| 100 | 0 | 0 | 0 | 0.785 | 15.13 | 1044 | 14.92 | 1058 |
| 110 | 0 | 0 | 0 | 0.785 | 15.34 | 1029 | 15.14 | 1043 |
| 120 | 0 | 0 | 0 | 0.785 | 15.53 | 1017 | 15.35 | 1029 |
| 130 | 0 | 0 | 0 | 0.785 | 15.66 | 1008 | 15.56 | 1015 |
| 167 | 0 | 0 | 0 | 0.785 | 16.15 | 978 | 16.15 | 978 |
| 212 | 0 | 0 | 0 | 0.785 | 16.71 | 946 | 16.71 | 946 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 21.53 | 2483 | 21.39 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 20.56 | 1201 | 20.35 | 1214 |
| 30 | 0 | 0 | 0 | 0.785 | 21.29 | 1161 | 21.07 | 1172 |
| 40 | 0 | 0 | 0 | 0.785 | 21.53 | 1148 | 21.31 | 1159 |
| 50 | 0 | 0 | 0 | 0.785 | 21.76 | 1136 | 21.55 | 1147 |
| 60 | 0 | 0 | 0 | 0.785 | 22 | 1124 | 21.78 | 1135 |
| 70 | 0 | 0 | 0 | 0.785 | 22.23 | 1112 | 22.01 | 1123 |
| 80 | 0 | 0 | 0 | 0.785 | 22.46 | 1101 | 22.24 | 1112 |
| 90 | 0 | 0 | 0 | 0.785 | 22.68 | 1090 | 22.46 | 1101 |
| 100 | 0 | 0 | 0 | 0.785 | 22.91 | 1080 | 22.69 | 1090 |
| 110 | 0 | 0 | 0 | 0.785 | 23.13 | 1070 | 22.91 | 1080 |
| 120 | 0 | 0 | 0 | 0.785 | 23.35 | 1060 | 23.13 | 1070 |
| 130 | 0 | 0 | 0 | 0.785 | 23.5 | 1053 | 23.35 | 1060 |
| 167 | 0 | 0 | 0 | 0.785 | 24.01 | 1031 | 24.01 | 1031 |
| 212 | 0 | 0 | 0 | 0.785 | 24.62 | 1006 | 24.62 | 1006 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 125.00 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-8 |
| 150.00 | 1-2 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 |
| 175.00 | 1-7 | 2-0 | 2-5 | 2-11 | 3-5 | 3-10 | 4-3 | 4-8 | 5-0 | 5-4 |
| 200.00 | 2-1 | 2-7 | 3-2 | 3-10 | 4-5 | 5-0 | 5-7 | 6-1 | 6-7 | 6-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 100.00 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 125.00 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-7 | 2-8 |
| 150.00 | 1-3 | 1-7 | 1-11 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-9 | 3-11 |
| 175.00 | 1-9 | 2-2 | 2-8 | 3-2 | 3-7 | 4-1 | 4-6 | 4-10 | 5-1 | 5-4 |
| 200.00 | 2-3 | 2-10 | 3-6 | 4-1 | 4-9 | 5-4 | 5-10 | 6-4 | 6-8 | 6-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.268

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 125.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 150.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 175.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 |
| 200.00 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 |
| 225.00 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-11 |
| 250.00 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 |
| 150.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 175.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 |
| 200.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-8 | 4-9 |
| 225.00 | 3-10 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-0 |
| 250.00 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 | 7-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 |
| 175.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 |
| 200.00 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 225.00 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 |
| 250.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 |
| 275.00 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 |
| 300.00 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-6 | 8-8 | 8-10 | 9-1 |
| 325.00 | 8-4 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 |
| 350.00 | 9-8 | 10-0 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 | 11-10 | 12-1 | 12-4 |
| 375.00 | 11-2 | 11-6 | 11-10 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-10 | 14-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 175.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 200.00 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 225.00 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 |
| 250.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 |
| 275.00 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 |
| 300.00 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 |
| 325.00 | 8-7 | 8-10 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-10 |
| 350.00 | 9-11 | 10-3 | 10-7 | 10-11 | 11-2 | 11-6 | 11-9 | 12-1 | 12-4 | 12-7 |
| 375.00 | 11-5 | 11-10 | 12-2 | 12-6 | 12-10 | 13-2 | 13-6 | 13-10 | 14-2 | 14-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 |
| 225.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 |
| 250.00 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 275.00 | 6-2 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 |
| 300.00 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 |
| 325.00 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 |
| 350.00 | 10-0 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 |
| 375.00 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-4 |
| 400.00 | 13-1 | 13-4 | 13-7 | 13-10 | 14-0 | 14-3 | 14-6 | 14-8 | 14-11 | 15-2 |
| 425.00 | 14-10 | 15-1 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 |
| 450.00 | 16-7 | 16-11 | 17-2 | 17-6 | 17-9 | 18-1 | 18-4 | 18-7 | 18-11 | 19-2 |
| 475.00 | 18-6 | 18-10 | 19-2 | 19-6 | 19-10 | 20-2 | 20-5 | 20-9 | 21-1 | 21-4 |
| 500.00 | 20-6 | 20-10 | 21-3 | 21-7 | 21-11 | 22-4 | 22-8 | 23-0 | 23-4 | 23-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 |
| 225.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 |
| 250.00 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 275.00 | 6-3 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 |
| 300.00 | 7-6 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 |
| 325.00 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-1 |
| 350.00 | 10-2 | 10-4 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 |
| 375.00 | 11-8 | 11-11 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 |
| 400.00 | 13-4 | 13-7 | 13-9 | 14-0 | 14-3 | 14-6 | 14-8 | 14-11 | 15-2 | 15-4 |
| 425.00 | 15-0 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 |
| 450.00 | 16-10 | 17-2 | 17-5 | 17-9 | 18-0 | 18-4 | 18-7 | 18-11 | 19-2 | 19-5 |
| 475.00 | 18-9 | 19-1 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-4 | 21-8 |
| 500.00 | 20-10 | 21-2 | 21-7 | 21-11 | 22-3 | 22-8 | 23-0 | 23-4 | 23-8 | 24-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 |
| 275.00 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 |
| 300.00 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 325.00 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 |
| 350.00 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-9 | 10-11 | 11-0 | 11-1 | 11-3 |
| 375.00 | 11-8 | 11-10 | 12-0 | 12-1 | 12-3 | 12-4 | 12-6 | 12-7 | 12-9 | 12-10 |
| 400.00 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 | 14-3 | 14-4 | 14-6 | 14-8 |
| 425.00 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-6 |
| 450.00 | 16-10 | 17-1 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-7 |
| 475.00 | 18-10 | 19-0 | 19-3 | 19-5 | 19-8 | 19-10 | 20-1 | 20-3 | 20-6 | 20-8 |
| 500.00 | 20-10 | 21-1 | 21-4 | 21-7 | 21-9 | 22-0 | 22-3 | 22-6 | 22-8 | 22-11 |
| 525.00 | 23-0 | 23-3 | 23-6 | 23-9 | 24-0 | 24-3 | 24-6 | 24-9 | 25-0 | 25-3 |
| 550.00 | 25-3 | 25-6 | 25-10 | 26-1 | 26-4 | 26-8 | 26-11 | 27-2 | 27-6 | 27-9 |
| 575.00 | 27-7 | 27-11 | 28-2 | 28-6 | 28-10 | 29-2 | 29-5 | 29-9 | 30-0 | 30-4 |
| 600.00 | 30-0 | 30-5 | 30-9 | 31-1 | 31-5 | 31-9 | 32-1 | 32-5 | 32-9 | 33-0 |
| 625.00 | 32-7 | 33-0 | 33-4 | 33-9 | 34-1 | 34-5 | 34-10 | 35-2 | 35-6 | 35-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 |
| 275.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 |
| 300.00 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 |
| 325.00 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 |
| 350.00 | 10-4 | 10-5 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-1 | 11-3 | 11-4 |
| 375.00 | 11-10 | 12-0 | 12-1 | 12-3 | 12-4 | 12-6 | 12-7 | 12-9 | 12-10 | 13-0 |
| 400.00 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 | 14-4 | 14-6 | 14-8 | 14-9 |
| 425.00 | 15-2 | 15-4 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-6 | 16-8 |
| 450.00 | 17-0 | 17-3 | 17-5 | 17-7 | 17-10 | 18-0 | 18-2 | 18-4 | 18-7 | 18-9 |
| 475.00 | 19-0 | 19-2 | 19-5 | 19-8 | 19-10 | 20-1 | 20-3 | 20-6 | 20-8 | 20-10 |
| 500.00 | 21-1 | 21-3 | 21-6 | 21-9 | 22-0 | 22-3 | 22-5 | 22-8 | 22-11 | 23-2 |
| 525.00 | 23-3 | 23-6 | 23-9 | 24-0 | 24-3 | 24-6 | 24-9 | 25-0 | 25-3 | 25-6 |
| 550.00 | 25-6 | 25-9 | 26-1 | 26-4 | 26-8 | 26-11 | 27-2 | 27-6 | 27-9 | 28-0 |
| 575.00 | 27-10 | 28-2 | 28-6 | 28-10 | 29-1 | 29-5 | 29-9 | 30-0 | 30-4 | 30-7 |
| 600.00 | 30-4 | 30-8 | 31-0 | 31-4 | 31-9 | 32-1 | 32-5 | 32-8 | 33-0 | 33-4 |
| 625.00 | 32-11 | 33-4 | 33-8 | 34-1 | 34-5 | 34-9 | 35-2 | 35-6 | 35-10 | 36-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 0.74 | 2882 | 0.71 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 0.28 | 3464 | 0.28 | 3517 |
| 30 | 0 | 0 | 0 | 0.785 | 0.54 | 1821 | 0.48 | 2056 |
| 40 | 0 | 0 | 0 | 0.785 | 0.68 | 1439 | 0.59 | 1653 |
| 50 | 0 | 0 | 0 | 0.785 | 0.84 | 1167 | 0.73 | 1335 |
| 60 | 0 | 0 | 0 | 0.785 | 1 | 979 | 0.89 | 1104 |
| 70 | 0 | 0 | 0 | 0.785 | 1.16 | 849 | 1.04 | 941 |
| 80 | 0 | 0 | 0 | 0.785 | 1.3 | 755 | 1.19 | 824 |
| 90 | 0 | 0 | 0 | 0.785 | 1.44 | 684 | 1.33 | 737 |
| 100 | 0 | 0 | 0 | 0.785 | 1.51 | 649 | 1.46 | 671 |
| 110 | 0 | 0 | 0 | 0.785 | 1.59 | 620 | 1.59 | 620 |
| 120 | 0 | 0 | 0 | 0.785 | 1.65 | 594 | 1.65 | 594 |
| 130 | 0 | 0 | 0 | 0.785 | 1.72 | 571 | 1.72 | 571 |
| 167 | 0 | 0 | 0 | 0.785 | 1.95 | 503 | 1.95 | 503 |
| 212 | 0 | 0 | 0 | 0.785 | 2.22 | 443 | 2.22 | 443 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 2.95 | 2879 | 2.83 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 1.86 | 2109 | 1.69 | 2328 |
| 30 | 0 | 0 | 0 | 0.785 | 2.63 | 1496 | 2.4 | 1637 |
| 40 | 0 | 0 | 0 | 0.785 | 2.87 | 1369 | 2.64 | 1488 |
| 50 | 0 | 0 | 0 | 0.785 | 3.1 | 1266 | 2.88 | 1366 |
| 60 | 0 | 0 | 0 | 0.785 | 3.33 | 1181 | 3.1 | 1266 |
| 70 | 0 | 0 | 0 | 0.785 | 3.54 | 1109 | 3.32 | 1183 |
| 80 | 0 | 0 | 0 | 0.785 | 3.75 | 1048 | 3.53 | 1112 |
| 90 | 0 | 0 | 0 | 0.785 | 3.95 | 996 | 3.74 | 1052 |
| 100 | 0 | 0 | 0 | 0.785 | 4.14 | 950 | 3.93 | 1000 |
| 110 | 0 | 0 | 0 | 0.785 | 4.29 | 917 | 4.12 | 954 |
| 120 | 0 | 0 | 0 | 0.785 | 4.39 | 896 | 4.3 | 914 |
| 130 | 0 | 0 | 0 | 0.785 | 4.49 | 875 | 4.48 | 878 |
| 167 | 0 | 0 | 0 | 0.785 | 4.87 | 807 | 4.87 | 807 |
| 212 | 0 | 0 | 0 | 0.785 | 5.3 | 742 | 5.3 | 742 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 6.56 | 2919 | 6.38 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 5.33 | 1659 | 5.04 | 1756 |
| 30 | 0 | 0 | 0 | 0.785 | 6.19 | 1429 | 5.89 | 1501 |
| 40 | 0 | 0 | 0 | 0.785 | 6.46 | 1370 | 6.17 | 1435 |
| 50 | 0 | 0 | 0 | 0.785 | 6.72 | 1317 | 6.43 | 1376 |
| 60 | 0 | 0 | 0 | 0.785 | 6.97 | 1269 | 6.68 | 1324 |
| 70 | 0 | 0 | 0 | 0.785 | 7.22 | 1226 | 6.93 | 1276 |
| 80 | 0 | 0 | 0 | 0.785 | 7.46 | 1187 | 7.18 | 1233 |
| 90 | 0 | 0 | 0 | 0.785 | 7.69 | 1151 | 7.41 | 1194 |
| 100 | 0 | 0 | 0 | 0.785 | 7.92 | 1118 | 7.64 | 1158 |
| 110 | 0 | 0 | 0 | 0.785 | 8.14 | 1088 | 7.87 | 1125 |
| 120 | 0 | 0 | 0 | 0.785 | 8.31 | 1066 | 8.09 | 1095 |
| 130 | 0 | 0 | 0 | 0.785 | 8.44 | 1050 | 8.3 | 1067 |
| 167 | 0 | 0 | 0 | 0.785 | 8.92 | 994 | 8.92 | 994 |
| 212 | 0 | 0 | 0 | 0.785 | 9.46 | 937 | 9.46 | 937 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 11.57 | 2946 | 11.36 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 10.31 | 1527 | 9.98 | 1577 |
| 30 | 0 | 0 | 0 | 0.785 | 11.18 | 1409 | 10.86 | 1450 |
| 40 | 0 | 0 | 0 | 0.785 | 11.46 | 1375 | 11.14 | 1414 |
| 50 | 0 | 0 | 0 | 0.785 | 11.73 | 1343 | 11.41 | 1381 |
| 60 | 0 | 0 | 0 | 0.785 | 12 | 1313 | 11.68 | 1349 |
| 70 | 0 | 0 | 0 | 0.785 | 12.26 | 1285 | 11.94 | 1319 |
| 80 | 0 | 0 | 0 | 0.785 | 12.52 | 1259 | 12.2 | 1292 |
| 90 | 0 | 0 | 0 | 0.785 | 12.77 | 1234 | 12.46 | 1265 |
| 100 | 0 | 0 | 0 | 0.785 | 13.02 | 1211 | 12.71 | 1241 |
| 110 | 0 | 0 | 0 | 0.785 | 13.27 | 1189 | 12.95 | 1217 |
| 120 | 0 | 0 | 0 | 0.785 | 13.51 | 1168 | 13.2 | 1195 |
| 130 | 0 | 0 | 0 | 0.785 | 13.66 | 1154 | 13.43 | 1174 |
| 167 | 0 | 0 | 0 | 0.785 | 14.21 | 1111 | 14.21 | 1111 |
| 212 | 0 | 0 | 0 | 0.785 | 14.83 | 1065 | 14.83 | 1065 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.698 | 18.01 | 2962 | 17.78 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 16.74 | 1472 | 16.4 | 1502 |
| 30 | 0 | 0 | 0 | 0.785 | 17.61 | 1400 | 17.27 | 1427 |
| 40 | 0 | 0 | 0 | 0.785 | 17.89 | 1378 | 17.55 | 1404 |
| 50 | 0 | 0 | 0 | 0.785 | 18.17 | 1357 | 17.83 | 1383 |
| 60 | 0 | 0 | 0 | 0.785 | 18.45 | 1337 | 18.11 | 1362 |
| 70 | 0 | 0 | 0 | 0.785 | 18.72 | 1318 | 18.38 | 1342 |
| 80 | 0 | 0 | 0 | 0.785 | 18.99 | 1299 | 18.65 | 1323 |
| 90 | 0 | 0 | 0 | 0.785 | 19.25 | 1282 | 18.91 | 1304 |
| 100 | 0 | 0 | 0 | 0.785 | 19.52 | 1265 | 19.18 | 1287 |
| 110 | 0 | 0 | 0 | 0.785 | 19.77 | 1248 | 19.44 | 1270 |
| 120 | 0 | 0 | 0 | 0.785 | 20.03 | 1233 | 19.69 | 1254 |
| 130 | 0 | 0 | 0 | 0.785 | 20.24 | 1220 | 19.94 | 1238 |
| 167 | 0 | 0 | 0 | 0.785 | 20.83 | 1186 | 20.83 | 1186 |
| 212 | 0 | 0 | 0 | 0.785 | 21.51 | 1149 | 21.51 | 1149 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 |
| 125.00 | 0-7 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 |
| 150.00 | 0-11 | 1-1 | 1-4 | 1-8 | 2-0 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 |
| 175.00 | 1-2 | 1-6 | 1-10 | 2-3 | 2-9 | 3-2 | 3-8 | 4-1 | 4-6 | 4-10 |
| 200.00 | 1-7 | 1-11 | 2-4 | 2-11 | 3-7 | 4-2 | 4-9 | 5-4 | 5-10 | 6-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 |
| 125.00 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-4 | 2-6 |
| 150.00 | 0-11 | 1-3 | 1-6 | 1-11 | 2-3 | 2-7 | 2-11 | 3-3 | 3-5 | 3-7 |
| 175.00 | 1-4 | 1-8 | 2-1 | 2-7 | 3-1 | 3-7 | 4-0 | 4-5 | 4-8 | 4-10 |
| 200.00 | 1-8 | 2-2 | 2-9 | 3-4 | 4-0 | 4-8 | 5-2 | 5-9 | 6-1 | 6-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 |
| 150.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 |
| 175.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 |
| 200.00 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 |
| 225.00 | 2-9 | 3-0 | 3-4 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 |
| 250.00 | 3-4 | 3-9 | 4-2 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 |
| 150.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 175.00 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 |
| 200.00 | 2-4 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-3 |
| 225.00 | 3-0 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 |
| 250.00 | 3-9 | 4-1 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 |
| 225.00 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-4 | 4-5 |
| 250.00 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 |
| 275.00 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 |
| 300.00 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 |
| 325.00 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 9-0 | 9-3 |
| 350.00 | 7-8 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-9 |
| 375.00 | 8-9 | 9-3 | 9-8 | 10-1 | 10-5 | 10-10 | 11-3 | 11-7 | 11-11 | 12-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 |
| 175.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 200.00 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 |
| 225.00 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 |
| 250.00 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 |
| 275.00 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 |
| 300.00 | 5-11 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 | 7-5 | 7-8 | 7-11 | 8-2 |
| 325.00 | 6-11 | 7-3 | 7-7 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 | 9-4 | 9-7 |
| 350.00 | 8-1 | 8-5 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 | 10-6 | 10-9 | 11-1 |
| 375.00 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 | 11-3 | 11-8 | 12-0 | 12-5 | 12-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 |
| 225.00 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 250.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 |
| 275.00 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 |
| 300.00 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-2 | 7-3 |
| 325.00 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 |
| 350.00 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-9 | 9-11 |
| 375.00 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 10-11 | 11-2 | 11-5 |
| 400.00 | 10-7 | 10-10 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 |
| 425.00 | 11-11 | 12-3 | 12-7 | 12-11 | 13-2 | 13-6 | 13-9 | 14-1 | 14-4 | 14-8 |
| 450.00 | 13-5 | 13-9 | 14-1 | 14-5 | 14-9 | 15-1 | 15-5 | 15-9 | 16-1 | 16-5 |
| 475.00 | 14-11 | 15-4 | 15-9 | 16-1 | 16-6 | 16-10 | 17-3 | 17-7 | 17-11 | 18-3 |
| 500.00 | 16-6 | 17-0 | 17-5 | 17-10 | 18-3 | 18-8 | 19-1 | 19-6 | 19-10 | 20-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 |
| 250.00 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 |
| 275.00 | 5-2 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 |
| 300.00 | 6-2 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-0 | 7-2 | 7-4 | 7-5 |
| 325.00 | 7-2 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 |
| 350.00 | 8-4 | 8-7 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-9 | 10-0 | 10-2 |
| 375.00 | 9-7 | 9-10 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 |
| 400.00 | 10-11 | 11-2 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 |
| 425.00 | 12-4 | 12-7 | 12-11 | 13-3 | 13-7 | 13-10 | 14-2 | 14-5 | 14-8 | 15-0 |
| 450.00 | 13-10 | 14-2 | 14-6 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-6 | 16-10 |
| 475.00 | 15-4 | 15-9 | 16-2 | 16-7 | 16-11 | 17-4 | 17-8 | 18-0 | 18-4 | 18-9 |
| 500.00 | 17-0 | 17-6 | 17-11 | 18-4 | 18-9 | 19-2 | 19-7 | 20-0 | 20-4 | 20-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 |
| 300.00 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 |
| 325.00 | 7-2 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 |
| 350.00 | 8-4 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 |
| 375.00 | 9-7 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 |
| 400.00 | 10-10 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 |
| 425.00 | 12-3 | 12-6 | 12-8 | 12-11 | 13-1 | 13-3 | 13-6 | 13-8 | 13-10 | 14-0 |
| 450.00 | 13-9 | 14-0 | 14-3 | 14-5 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-9 |
| 475.00 | 15-4 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-6 |
| 500.00 | 17-0 | 17-3 | 17-7 | 17-10 | 18-1 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 |
| 525.00 | 18-9 | 19-1 | 19-4 | 19-8 | 20-0 | 20-3 | 20-7 | 20-10 | 21-2 | 21-5 |
| 550.00 | 20-7 | 20-11 | 21-3 | 21-7 | 21-11 | 22-3 | 22-7 | 22-11 | 23-3 | 23-6 |
| 575.00 | 22-6 | 22-10 | 23-3 | 23-7 | 24-0 | 24-4 | 24-8 | 25-0 | 25-5 | 25-9 |
| 600.00 | 24-6 | 24-11 | 25-4 | 25-8 | 26-1 | 26-6 | 26-11 | 27-3 | 27-8 | 28-0 |
| 625.00 | 26-7 | 27-0 | 27-5 | 27-11 | 28-4 | 28-9 | 29-2 | 29-7 | 30-0 | 30-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 |
| 275.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 300.00 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 325.00 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 |
| 350.00 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 |
| 375.00 | 9-9 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-1 |
| 400.00 | 11-1 | 11-3 | 11-5 | 11-7 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 |
| 425.00 | 12-6 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-3 |
| 450.00 | 14-0 | 14-3 | 14-6 | 14-9 | 14-11 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 |
| 475.00 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 | 17-4 | 17-7 | 17-10 |
| 500.00 | 17-4 | 17-7 | 17-11 | 18-2 | 18-5 | 18-9 | 19-0 | 19-3 | 19-6 | 19-9 |
| 525.00 | 19-1 | 19-5 | 19-9 | 20-0 | 20-4 | 20-8 | 20-11 | 21-3 | 21-6 | 21-10 |
| 550.00 | 21-0 | 21-4 | 21-8 | 22-0 | 22-4 | 22-8 | 23-0 | 23-4 | 23-7 | 23-11 |
| 575.00 | 22-11 | 23-4 | 23-8 | 24-1 | 24-5 | 24-9 | 25-2 | 25-6 | 25-10 | 26-2 |
| 600.00 | 25-0 | 25-5 | 25-9 | 26-2 | 26-7 | 27-0 | 27-4 | 27-9 | 28-2 | 28-6 |
| 625.00 | 27-1 | 27-7 | 28-0 | 28-5 | 28-10 | 29-3 | 29-8 | 30-1 | 30-6 | 30-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 3.37 | 1000 | 3.37 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 3.09 | 318 | 3.09 | 319 |
| 30 | 0 | 0 | 0 | 0.785 | 3.17 | 311 | 3.16 | 311 |
| 40 | 0 | 0 | 0 | 0.785 | 3.24 | 304 | 3.23 | 305 |
| 50 | 0 | 0 | 0 | 0.785 | 3.3 | 299 | 3.3 | 299 |
| 60 | 0 | 0 | 0 | 0.785 | 3.36 | 293 | 3.36 | 294 |
| 70 | 0 | 0 | 0 | 0.785 | 3.42 | 288 | 3.42 | 288 |
| 80 | 0 | 0 | 0 | 0.785 | 3.47 | 284 | 3.47 | 284 |
| 90 | 0 | 0 | 0 | 0.785 | 3.51 | 281 | 3.51 | 281 |
| 100 | 0 | 0 | 0 | 0.785 | 3.55 | 278 | 3.55 | 278 |
| 110 | 0 | 0 | 0 | 0.785 | 3.59 | 275 | 3.59 | 275 |
| 120 | 0 | 0 | 0 | 0.785 | 3.62 | 272 | 3.62 | 272 |
| 130 | 0 | 0 | 0 | 0.785 | 3.66 | 270 | 3.66 | 270 |
| 167 | 0 | 0 | 0 | 0.785 | 3.79 | 260 | 3.79 | 260 |
| 212 | 0 | 0 | 0 | 0.785 | 3.95 | 250 | 3.95 | 250 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 13.66 | 1000 | 13.66 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 13.39 | 298 | 13.39 | 298 |
| 30 | 0 | 0 | 0 | 0.785 | 13.47 | 297 | 13.46 | 297 |
| 40 | 0 | 0 | 0 | 0.785 | 13.53 | 295 | 13.53 | 295 |
| 50 | 0 | 0 | 0 | 0.785 | 13.59 | 294 | 13.59 | 294 |
| 60 | 0 | 0 | 0 | 0.785 | 13.66 | 293 | 13.65 | 293 |
| 70 | 0 | 0 | 0 | 0.785 | 13.72 | 292 | 13.71 | 292 |
| 80 | 0 | 0 | 0 | 0.785 | 13.77 | 290 | 13.77 | 290 |
| 90 | 0 | 0 | 0 | 0.785 | 13.81 | 290 | 13.81 | 290 |
| 100 | 0 | 0 | 0 | 0.785 | 13.85 | 289 | 13.85 | 289 |
| 110 | 0 | 0 | 0 | 0.785 | 13.89 | 288 | 13.89 | 288 |
| 120 | 0 | 0 | 0 | 0.785 | 13.93 | 287 | 13.93 | 287 |
| 130 | 0 | 0 | 0 | 0.785 | 13.97 | 287 | 13.97 | 287 |
| 167 | 0 | 0 | 0 | 0.785 | 14.11 | 284 | 14.11 | 284 |
| 212 | 0 | 0 | 0 | 0.785 | 14.28 | 280 | 14.28 | 280 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 31.51 | 1000 | 31.51 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 31.24 | 295 | 31.24 | 295 |
| 30 | 0 | 0 | 0 | 0.785 | 31.32 | 294 | 31.31 | 294 |
| 40 | 0 | 0 | 0 | 0.785 | 31.38 | 294 | 31.38 | 294 |
| 50 | 0 | 0 | 0 | 0.785 | 31.44 | 293 | 31.44 | 293 |
| 60 | 0 | 0 | 0 | 0.785 | 31.51 | 293 | 31.5 | 293 |
| 70 | 0 | 0 | 0 | 0.785 | 31.57 | 292 | 31.56 | 292 |
| 80 | 0 | 0 | 0 | 0.785 | 31.62 | 292 | 31.62 | 292 |
| 90 | 0 | 0 | 0 | 0.785 | 31.66 | 291 | 31.66 | 291 |
| 100 | 0 | 0 | 0 | 0.785 | 31.7 | 291 | 31.7 | 291 |
| 110 | 0 | 0 | 0 | 0.785 | 31.74 | 291 | 31.74 | 291 |
| 120 | 0 | 0 | 0 | 0.785 | 31.78 | 290 | 31.78 | 290 |
| 130 | 0 | 0 | 0 | 0.785 | 31.82 | 290 | 31.82 | 290 |
| 167 | 0 | 0 | 0 | 0.785 | 31.96 | 289 | 31.96 | 289 |
| 212 | 0 | 0 | 0 | 0.785 | 32.14 | 287 | 32.14 | 287 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 58.22 | 1000 | 58.22 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 57.95 | 294 | 57.95 | 294 |
| 30 | 0 | 0 | 0 | 0.785 | 58.02 | 294 | 58.02 | 294 |
| 40 | 0 | 0 | 0 | 0.785 | 58.09 | 293 | 58.09 | 293 |
| 50 | 0 | 0 | 0 | 0.785 | 58.15 | 293 | 58.15 | 293 |
| 60 | 0 | 0 | 0 | 0.785 | 58.21 | 293 | 58.21 | 293 |
| 70 | 0 | 0 | 0 | 0.785 | 58.27 | 292 | 58.27 | 292 |
| 80 | 0 | 0 | 0 | 0.785 | 58.32 | 292 | 58.32 | 292 |
| 90 | 0 | 0 | 0 | 0.785 | 58.36 | 292 | 58.36 | 292 |
| 100 | 0 | 0 | 0 | 0.785 | 58.4 | 292 | 58.4 | 292 |
| 110 | 0 | 0 | 0 | 0.785 | 58.44 | 292 | 58.44 | 292 |
| 120 | 0 | 0 | 0 | 0.785 | 58.48 | 292 | 58.48 | 292 |
| 130 | 0 | 0 | 0 | 0.785 | 58.52 | 291 | 58.52 | 291 |
| 167 | 0 | 0 | 0 | 0.785 | 58.67 | 291 | 58.67 | 291 |
| 212 | 0 | 0 | 0 | 0.785 | 58.85 | 290 | 58.85 | 290 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 96.41 | 1000 | 96.41 | 1000* |
| 20 | 0 | 0 | 0 | 0.785 | 96.15 | 293 | 96.15 | 293 |
| 30 | 0 | 0 | 0 | 0.785 | 96.22 | 293 | 96.22 | 293 |
| 40 | 0 | 0 | 0 | 0.785 | 96.29 | 293 | 96.28 | 293 |
| 50 | 0 | 0 | 0 | 0.785 | 96.35 | 293 | 96.34 | 293 |
| 60 | 0 | 0 | 0 | 0.785 | 96.41 | 293 | 96.4 | 293 |
| 70 | 0 | 0 | 0 | 0.785 | 96.47 | 293 | 96.46 | 293 |
| 80 | 0 | 0 | 0 | 0.785 | 96.52 | 292 | 96.52 | 292 |
| 90 | 0 | 0 | 0 | 0.785 | 96.56 | 292 | 96.56 | 292 |
| 100 | 0 | 0 | 0 | 0.785 | 96.6 | 292 | 96.6 | 292 |
| 110 | 0 | 0 | 0 | 0.785 | 96.64 | 292 | 96.64 | 292 |
| 120 | 0 | 0 | 0 | 0.785 | 96.68 | 292 | 96.68 | 292 |
| 130 | 0 | 0 | 0 | 0.785 | 96.72 | 292 | 96.72 | 292 |
| 167 | 0 | 0 | 0 | 0.785 | 96.86 | 292 | 96.86 | 292 |
| 212 | 0 | 0 | 0 | 0.785 | 97.04 | 291 | 97.04 | 291 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 |
| 100.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 |
| 125.00 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 |
| 150.00 | 7-0 | 7-2 | 7-3 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-1 |
| 175.00 | 9-6 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 |
| 200.00 | 12-5 | 12-8 | 13-0 | 13-3 | 13-6 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 |
| 100.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 |
| 125.00 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 |
| 150.00 | 7-0 | 7-2 | 7-4 | 7-5 | 7-7 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 |
| 175.00 | 9-6 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 |
| 200.00 | 12-5 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-1 | 14-3 | 14-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 |
| 125.00 | 5-3 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 |
| 150.00 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-9 |
| 175.00 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 |
| 200.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 |
| 225.00 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-5 | 17-6 | 17-7 | 17-7 |
| 250.00 | 21-0 | 21-1 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 |
| 125.00 | 5-3 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 |
| 150.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-9 |
| 175.00 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 |
| 200.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 |
| 225.00 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-5 | 17-6 | 17-7 | 17-7 |
| 250.00 | 21-0 | 21-1 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-9 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 |
| 175.00 | 10-6 | 10-7 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-8 | 10-8 |
| 200.00 | 13-9 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 |
| 225.00 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 |
| 250.00 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 |
| 275.00 | 26-2 | 26-3 | 26-4 | 26-4 | 26-5 | 26-6 | 26-6 | 26-6 | 26-7 | 26-7 |
| 300.00 | 31-3 | 31-4 | 31-5 | 31-5 | 31-6 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 |
| 325.00 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-2 | 37-3 | 37-4 | 37-4 |
| 350.00 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-4 | 43-5 |
| 375.00 | 49-2 | 49-4 | 49-5 | 49-6 | 49-7 | 49-9 | 49-10 | 49-10 | 49-11 | 50-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 |
| 175.00 | 10-6 | 10-7 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-8 | 10-8 |
| 200.00 | 13-9 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 |
| 225.00 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 |
| 250.00 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 |
| 275.00 | 26-2 | 26-3 | 26-4 | 26-4 | 26-5 | 26-6 | 26-6 | 26-6 | 26-7 | 26-7 |
| 300.00 | 31-3 | 31-4 | 31-5 | 31-5 | 31-6 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 |
| 325.00 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-2 | 37-3 | 37-4 | 37-4 |
| 350.00 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-4 | 43-5 |
| 375.00 | 49-2 | 49-4 | 49-5 | 49-6 | 49-7 | 49-9 | 49-10 | 49-10 | 49-11 | 50-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 14-2 | 14-3 | 14-3 | 14-3 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 |
| 225.00 | 18-0 | 18-0 | 18-1 | 18-1 | 18-1 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 |
| 250.00 | 22-3 | 22-4 | 22-4 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 |
| 275.00 | 27-0 | 27-1 | 27-1 | 27-1 | 27-2 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 |
| 300.00 | 32-3 | 32-3 | 32-4 | 32-4 | 32-4 | 32-5 | 32-5 | 32-5 | 32-6 | 32-6 |
| 325.00 | 37-11 | 37-11 | 38-0 | 38-0 | 38-1 | 38-1 | 38-2 | 38-2 | 38-2 | 38-3 |
| 350.00 | 44-1 | 44-2 | 44-2 | 44-3 | 44-3 | 44-4 | 44-5 | 44-5 | 44-5 | 44-6 |
| 375.00 | 50-9 | 50-10 | 50-11 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-2 | 51-2 |
| 400.00 | 57-11 | 58-0 | 58-1 | 58-2 | 58-2 | 58-3 | 58-4 | 58-4 | 58-5 | 58-5 |
| 425.00 | 65-8 | 65-9 | 65-10 | 65-10 | 65-11 | 66-0 | 66-1 | 66-1 | 66-2 | 66-2 |
| 450.00 | 73-10 | 73-11 | 74-0 | 74-1 | 74-2 | 74-3 | 74-4 | 74-5 | 74-5 | 74-6 |
| 475.00 | 82-7 | 82-8 | 82-10 | 82-11 | 83-0 | 83-1 | 83-2 | 83-3 | 83-3 | 83-4 |
| 500.00 | 91-11 | 92-0 | 92-1 | 92-3 | 92-4 | 92-5 | 92-6 | 92-7 | 92-8 | 92-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 14-2 | 14-3 | 14-3 | 14-3 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 |
| 225.00 | 18-0 | 18-0 | 18-1 | 18-1 | 18-1 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 |
| 250.00 | 22-3 | 22-4 | 22-4 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 |
| 275.00 | 27-0 | 27-1 | 27-1 | 27-1 | 27-2 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 |
| 300.00 | 32-3 | 32-3 | 32-4 | 32-4 | 32-4 | 32-5 | 32-5 | 32-5 | 32-6 | 32-6 |
| 325.00 | 37-11 | 38-0 | 38-0 | 38-1 | 38-1 | 38-1 | 38-2 | 38-2 | 38-2 | 38-3 |
| 350.00 | 44-1 | 44-2 | 44-2 | 44-3 | 44-3 | 44-4 | 44-5 | 44-5 | 44-5 | 44-6 |
| 375.00 | 50-9 | 50-10 | 50-11 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-2 | 51-2 |
| 400.00 | 57-11 | 58-0 | 58-1 | 58-2 | 58-3 | 58-3 | 58-4 | 58-4 | 58-5 | 58-5 |
| 425.00 | 65-8 | 65-9 | 65-10 | 65-10 | 65-11 | 66-0 | 66-1 | 66-1 | 66-2 | 66-2 |
| 450.00 | 73-10 | 73-11 | 74-0 | 74-1 | 74-2 | 74-3 | 74-4 | 74-5 | 74-5 | 74-6 |
| 475.00 | 82-7 | 82-9 | 82-10 | 82-11 | 83-0 | 83-1 | 83-2 | 83-3 | 83-3 | 83-4 |
| 500.00 | 91-11 | 92-0 | 92-2 | 92-3 | 92-4 | 92-5 | 92-6 | 92-7 | 92-8 | 92-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 23-3 | 23-3 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 |
| 275.00 | 28-2 | 28-3 | 28-3 | 28-3 | 28-3 | 28-3 | 28-4 | 28-4 | 28-4 | 28-4 |
| 300.00 | 33-8 | 33-8 | 33-8 | 33-8 | 33-9 | 33-9 | 33-9 | 33-9 | 33-9 | 33-10 |
| 325.00 | 39-7 | 39-7 | 39-8 | 39-8 | 39-8 | 39-9 | 39-9 | 39-9 | 39-9 | 39-9 |
| 350.00 | 46-1 | 46-1 | 46-1 | 46-2 | 46-2 | 46-2 | 46-3 | 46-3 | 46-3 | 46-3 |
| 375.00 | 53-0 | 53-1 | 53-1 | 53-2 | 53-2 | 53-2 | 53-3 | 53-3 | 53-3 | 53-4 |
| 400.00 | 60-7 | 60-7 | 60-8 | 60-8 | 60-8 | 60-9 | 60-9 | 60-10 | 60-10 | 60-10 |
| 425.00 | 68-7 | 68-8 | 68-8 | 68-9 | 68-9 | 68-10 | 68-10 | 68-11 | 68-11 | 68-11 |
| 450.00 | 77-3 | 77-3 | 77-4 | 77-5 | 77-5 | 77-6 | 77-6 | 77-7 | 77-7 | 77-7 |
| 475.00 | 86-5 | 86-5 | 86-6 | 86-7 | 86-7 | 86-8 | 86-9 | 86-9 | 86-10 | 86-10 |
| 500.00 | 96-2 | 96-3 | 96-3 | 96-4 | 96-5 | 96-6 | 96-6 | 96-7 | 96-7 | 96-8 |
| 525.00 | 106-6 | 106-7 | 106-8 | 106-8 | 106-9 | 106-10 | 106-11 | 106-11 | 107-0 | 107-0 |
| 550.00 | 117-5 | 117-6 | 117-7 | 117-8 | 117-9 | 117-10 | 117-11 | 117-11 | 118-0 | 118-1 |
| 575.00 | 129-0 | 129-1 | 129-2 | 129-3 | 129-4 | 129-5 | 129-6 | 129-7 | 129-7 | 129-8 |
| 600.00 | 141-2 | 141-4 | 141-5 | 141-6 | 141-7 | 141-8 | 141-9 | 141-10 | 141-11 | 141-11 |
| 625.00 | 154-0 | 154-2 | 154-3 | 154-4 | 154-6 | 154-7 | 154-8 | 154-9 | 154-10 | 154-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 23-3 | 23-3 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 |
| 275.00 | 28-2 | 28-3 | 28-3 | 28-3 | 28-3 | 28-3 | 28-4 | 28-4 | 28-4 | 28-4 |
| 300.00 | 33-8 | 33-8 | 33-8 | 33-8 | 33-9 | 33-9 | 33-9 | 33-9 | 33-9 | 33-10 |
| 325.00 | 39-7 | 39-7 | 39-8 | 39-8 | 39-8 | 39-9 | 39-9 | 39-9 | 39-9 | 39-9 |
| 350.00 | 46-1 | 46-1 | 46-1 | 46-2 | 46-2 | 46-2 | 46-3 | 46-3 | 46-3 | 46-3 |
| 375.00 | 53-0 | 53-1 | 53-1 | 53-2 | 53-2 | 53-2 | 53-3 | 53-3 | 53-3 | 53-4 |
| 400.00 | 60-7 | 60-7 | 60-8 | 60-8 | 60-9 | 60-9 | 60-9 | 60-10 | 60-10 | 60-10 |
| 425.00 | 68-7 | 68-8 | 68-8 | 68-9 | 68-10 | 68-10 | 68-10 | 68-11 | 68-11 | 68-11 |
| 450.00 | 77-3 | 77-3 | 77-4 | 77-5 | 77-5 | 77-6 | 77-6 | 77-7 | 77-7 | 77-7 |
| 475.00 | 86-5 | 86-6 | 86-6 | 86-7 | 86-8 | 86-8 | 86-9 | 86-9 | 86-10 | 86-10 |
| 500.00 | 96-2 | 96-3 | 96-3 | 96-4 | 96-5 | 96-6 | 96-6 | 96-7 | 96-7 | 96-8 |
| 525.00 | 106-6 | 106-7 | 106-8 | 106-9 | 106-9 | 106-10 | 106-11 | 106-11 | 107-0 | 107-0 |
| 550.00 | 117-5 | 117-6 | 117-7 | 117-8 | 117-9 | 117-10 | 117-11 | 117-11 | 118-0 | 118-1 |
| 575.00 | 129-0 | 129-1 | 129-2 | 129-3 | 129-4 | 129-5 | 129-6 | 129-7 | 129-7 | 129-8 |
| 600.00 | 141-2 | 141-4 | 141-5 | 141-6 | 141-7 | 141-8 | 141-9 | 141-10 | 141-11 | 141-11 |
| 625.00 | 154-1 | 154-2 | 154-3 | 154-5 | 154-6 | 154-7 | 154-8 | 154-9 | 154-10 | 154-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 2.24 | 1500 | 2.24 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 1.78 | 552 | 1.76 | 557 |
| 30 | 0 | 0 | 0 | 0.785 | 1.89 | 520 | 1.88 | 523 |
| 40 | 0 | 0 | 0 | 0.785 | 1.99 | 493 | 1.98 | 496 |
| 50 | 0 | 0 | 0 | 0.785 | 2.09 | 470 | 2.08 | 473 |
| 60 | 0 | 0 | 0 | 0.785 | 2.18 | 450 | 2.17 | 453 |
| 70 | 0 | 0 | 0 | 0.785 | 2.27 | 432 | 2.26 | 435 |
| 80 | 0 | 0 | 0 | 0.785 | 2.36 | 416 | 2.35 | 419 |
| 90 | 0 | 0 | 0 | 0.785 | 2.43 | 405 | 2.43 | 405 |
| 100 | 0 | 0 | 0 | 0.785 | 2.48 | 396 | 2.48 | 396 |
| 110 | 0 | 0 | 0 | 0.785 | 2.53 | 388 | 2.53 | 389 |
| 120 | 0 | 0 | 0 | 0.785 | 2.58 | 381 | 2.58 | 381 |
| 130 | 0 | 0 | 0 | 0.785 | 2.63 | 374 | 2.63 | 374 |
| 167 | 0 | 0 | 0 | 0.785 | 2.81 | 351 | 2.81 | 351 |
| 212 | 0 | 0 | 0 | 0.785 | 3.01 | 327 | 3.01 | 327 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 9.01 | 1500 | 9.01 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 8.57 | 461 | 8.56 | 462 |
| 30 | 0 | 0 | 0 | 0.785 | 8.67 | 456 | 8.66 | 456 |
| 40 | 0 | 0 | 0 | 0.785 | 8.77 | 451 | 8.76 | 452 |
| 50 | 0 | 0 | 0 | 0.785 | 8.86 | 446 | 8.85 | 447 |
| 60 | 0 | 0 | 0 | 0.785 | 8.96 | 442 | 8.94 | 442 |
| 70 | 0 | 0 | 0 | 0.785 | 9.05 | 437 | 9.03 | 438 |
| 80 | 0 | 0 | 0 | 0.785 | 9.14 | 433 | 9.13 | 434 |
| 90 | 0 | 0 | 0 | 0.785 | 9.22 | 429 | 9.22 | 430 |
| 100 | 0 | 0 | 0 | 0.785 | 9.28 | 427 | 9.28 | 427 |
| 110 | 0 | 0 | 0 | 0.785 | 9.34 | 424 | 9.33 | 424 |
| 120 | 0 | 0 | 0 | 0.785 | 9.39 | 422 | 9.39 | 422 |
| 130 | 0 | 0 | 0 | 0.785 | 9.45 | 419 | 9.45 | 419 |
| 167 | 0 | 0 | 0 | 0.785 | 9.66 | 410 | 9.66 | 410 |
| 212 | 0 | 0 | 0 | 0.785 | 9.9 | 400 | 9.9 | 400 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 20.49 | 1500 | 20.49 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 20.05 | 448 | 20.04 | 449 |
| 30 | 0 | 0 | 0 | 0.785 | 20.16 | 446 | 20.14 | 446 |
| 40 | 0 | 0 | 0 | 0.785 | 20.25 | 444 | 20.24 | 444 |
| 50 | 0 | 0 | 0 | 0.785 | 20.34 | 442 | 20.33 | 442 |
| 60 | 0 | 0 | 0 | 0.785 | 20.44 | 440 | 20.42 | 440 |
| 70 | 0 | 0 | 0 | 0.785 | 20.53 | 438 | 20.51 | 439 |
| 80 | 0 | 0 | 0 | 0.785 | 20.62 | 436 | 20.6 | 437 |
| 90 | 0 | 0 | 0 | 0.785 | 20.7 | 435 | 20.7 | 435 |
| 100 | 0 | 0 | 0 | 0.785 | 20.76 | 434 | 20.76 | 434 |
| 110 | 0 | 0 | 0 | 0.785 | 20.82 | 432 | 20.82 | 432 |
| 120 | 0 | 0 | 0 | 0.785 | 20.88 | 431 | 20.88 | 431 |
| 130 | 0 | 0 | 0 | 0.785 | 20.94 | 430 | 20.94 | 430 |
| 167 | 0 | 0 | 0 | 0.785 | 21.15 | 426 | 21.15 | 426 |
| 212 | 0 | 0 | 0 | 0.785 | 21.41 | 421 | 21.41 | 421 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 36.99 | 1500 | 36.99 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 36.55 | 444 | 36.54 | 444 |
| 30 | 0 | 0 | 0 | 0.785 | 36.65 | 443 | 36.64 | 443 |
| 40 | 0 | 0 | 0 | 0.785 | 36.75 | 442 | 36.73 | 442 |
| 50 | 0 | 0 | 0 | 0.785 | 36.84 | 441 | 36.83 | 441 |
| 60 | 0 | 0 | 0 | 0.785 | 36.93 | 440 | 36.92 | 440 |
| 70 | 0 | 0 | 0 | 0.785 | 37.02 | 439 | 37.01 | 439 |
| 80 | 0 | 0 | 0 | 0.785 | 37.12 | 438 | 37.1 | 438 |
| 90 | 0 | 0 | 0 | 0.785 | 37.2 | 437 | 37.19 | 437 |
| 100 | 0 | 0 | 0 | 0.785 | 37.26 | 436 | 37.26 | 436 |
| 110 | 0 | 0 | 0 | 0.785 | 37.32 | 435 | 37.32 | 435 |
| 120 | 0 | 0 | 0 | 0.785 | 37.38 | 435 | 37.38 | 435 |
| 130 | 0 | 0 | 0 | 0.785 | 37.44 | 434 | 37.44 | 434 |
| 167 | 0 | 0 | 0 | 0.785 | 37.66 | 432 | 37.66 | 432 |
| 212 | 0 | 0 | 0 | 0.785 | 37.92 | 429 | 37.92 | 429 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 59 | 1500 | 59 | 1500* |
| 20 | 0 | 0 | 0 | 0.785 | 58.57 | 442 | 58.55 | 442 |
| 30 | 0 | 0 | 0 | 0.785 | 58.67 | 441 | 58.66 | 441 |
| 40 | 0 | 0 | 0 | 0.785 | 58.76 | 441 | 58.75 | 441 |
| 50 | 0 | 0 | 0 | 0.785 | 58.85 | 440 | 58.84 | 440 |
| 60 | 0 | 0 | 0 | 0.785 | 58.95 | 439 | 58.93 | 439 |
| 70 | 0 | 0 | 0 | 0.785 | 59.04 | 439 | 59.02 | 439 |
| 80 | 0 | 0 | 0 | 0.785 | 59.13 | 438 | 59.12 | 438 |
| 90 | 0 | 0 | 0 | 0.785 | 59.21 | 438 | 59.21 | 438 |
| 100 | 0 | 0 | 0 | 0.785 | 59.27 | 437 | 59.27 | 437 |
| 110 | 0 | 0 | 0 | 0.785 | 59.33 | 437 | 59.33 | 437 |
| 120 | 0 | 0 | 0 | 0.785 | 59.39 | 436 | 59.39 | 436 |
| 130 | 0 | 0 | 0 | 0.785 | 59.45 | 436 | 59.45 | 436 |
| 167 | 0 | 0 | 0 | 0.785 | 59.67 | 435 | 59.67 | 435 |
| 212 | 0 | 0 | 0 | 0.785 | 59.94 | 433 | 59.94 | 433 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 |
| 125.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 | 4-0 |
| 150.00 | 4-0 | 4-3 | 4-5 | 4-8 | 4-11 | 5-1 | 5-3 | 5-6 | 5-7 | 5-8 |
| 175.00 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-9 |
| 200.00 | 7-1 | 7-6 | 7-11 | 8-4 | 8-8 | 9-1 | 9-5 | 9-9 | 9-11 | 10-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 |
| 125.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 |
| 150.00 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-7 | 5-8 |
| 175.00 | 5-5 | 5-10 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 |
| 200.00 | 7-1 | 7-7 | 8-0 | 8-4 | 8-9 | 9-1 | 9-6 | 9-9 | 9-11 | 10-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 |
| 125.00 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 | 3-8 |
| 150.00 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 |
| 175.00 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 |
| 200.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-2 | 9-3 | 9-3 | 9-4 |
| 225.00 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-10 |
| 250.00 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 |
| 125.00 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 | 3-8 |
| 150.00 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 |
| 175.00 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 |
| 200.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 |
| 225.00 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 |
| 250.00 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-2 | 14-4 | 14-5 | 14-6 | 14-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.293

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 |
| 175.00 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-0 | 7-1 |
| 200.00 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-3 |
| 225.00 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 |
| 250.00 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-5 |
| 275.00 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 |
| 300.00 | 20-0 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 |
| 325.00 | 23-6 | 23-8 | 23-9 | 23-11 | 24-0 | 24-1 | 24-2 | 24-4 | 24-5 | 24-6 |
| 350.00 | 27-4 | 27-6 | 27-7 | 27-9 | 27-10 | 28-0 | 28-1 | 28-3 | 28-4 | 28-5 |
| 375.00 | 31-5 | 31-7 | 31-9 | 31-10 | 32-0 | 32-2 | 32-4 | 32-5 | 32-7 | 32-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 |
| 175.00 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-0 | 7-1 |
| 200.00 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-3 |
| 225.00 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 |
| 250.00 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 |
| 275.00 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-5 | 17-6 |
| 300.00 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 |
| 325.00 | 23-7 | 23-8 | 23-9 | 23-11 | 24-0 | 24-1 | 24-3 | 24-4 | 24-5 | 24-6 |
| 350.00 | 27-4 | 27-6 | 27-7 | 27-9 | 27-11 | 28-0 | 28-2 | 28-3 | 28-4 | 28-5 |
| 375.00 | 31-5 | 31-7 | 31-9 | 31-11 | 32-0 | 32-2 | 32-4 | 32-6 | 32-7 | 32-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 |
| 225.00 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 |
| 250.00 | 14-2 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 |
| 275.00 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 |
| 300.00 | 20-5 | 20-6 | 20-7 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 |
| 325.00 | 24-0 | 24-1 | 24-2 | 24-3 | 24-3 | 24-4 | 24-5 | 24-6 | 24-6 | 24-6 |
| 350.00 | 27-11 | 28-0 | 28-1 | 28-1 | 28-2 | 28-3 | 28-4 | 28-5 | 28-5 | 28-6 |
| 375.00 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-8 | 32-9 |
| 400.00 | 36-6 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 |
| 425.00 | 41-4 | 41-5 | 41-6 | 41-8 | 41-9 | 41-10 | 41-11 | 42-1 | 42-1 | 42-2 |
| 450.00 | 46-4 | 46-6 | 46-8 | 46-9 | 46-10 | 47-0 | 47-1 | 47-3 | 47-4 | 47-4 |
| 475.00 | 51-9 | 51-11 | 52-0 | 52-2 | 52-4 | 52-5 | 52-7 | 52-8 | 52-9 | 52-10 |
| 500.00 | 57-5 | 57-7 | 57-9 | 57-11 | 58-1 | 58-2 | 58-4 | 58-6 | 58-7 | 58-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 |
| 225.00 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-8 | 11-9 |
| 250.00 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 |
| 275.00 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 |
| 300.00 | 20-6 | 20-6 | 20-7 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 |
| 325.00 | 24-0 | 24-1 | 24-2 | 24-3 | 24-3 | 24-4 | 24-5 | 24-6 | 24-6 | 24-6 |
| 350.00 | 27-11 | 28-0 | 28-1 | 28-2 | 28-2 | 28-3 | 28-4 | 28-5 | 28-5 | 28-6 |
| 375.00 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-8 | 32-9 |
| 400.00 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 |
| 425.00 | 41-4 | 41-5 | 41-7 | 41-8 | 41-9 | 41-10 | 42-0 | 42-1 | 42-1 | 42-2 |
| 450.00 | 46-5 | 46-6 | 46-8 | 46-9 | 46-11 | 47-0 | 47-1 | 47-3 | 47-4 | 47-4 |
| 475.00 | 51-9 | 51-11 | 52-1 | 52-2 | 52-4 | 52-5 | 52-7 | 52-8 | 52-9 | 52-10 |
| 500.00 | 57-6 | 57-7 | 57-9 | 57-11 | 58-1 | 58-3 | 58-4 | 58-6 | 58-7 | 58-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



OH812.295

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-5 | 14-6 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-7 | 14-8 |
| 275.00 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-8 | 17-9 |
| 300.00 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 |
| 325.00 | 24-6 | 24-6 | 24-7 | 24-7 | 24-8 | 24-8 | 24-9 | 24-9 | 24-9 | 24-10 |
| 350.00 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 | 28-8 | 28-8 | 28-9 | 28-9 | 28-10 |
| 375.00 | 32-8 | 32-9 | 32-10 | 32-10 | 32-11 | 32-11 | 33-0 | 33-1 | 33-1 | 33-1 |
| 400.00 | 37-3 | 37-4 | 37-4 | 37-5 | 37-6 | 37-6 | 37-7 | 37-8 | 37-8 | 37-9 |
| 425.00 | 42-1 | 42-2 | 42-3 | 42-4 | 42-4 | 42-5 | 42-6 | 42-7 | 42-7 | 42-8 |
| 450.00 | 47-3 | 47-4 | 47-5 | 47-6 | 47-7 | 47-8 | 47-9 | 47-10 | 47-10 | 47-11 |
| 475.00 | 52-9 | 52-10 | 52-11 | 53-0 | 53-1 | 53-2 | 53-3 | 53-4 | 53-5 | 53-5 |
| 500.00 | 58-7 | 58-8 | 58-9 | 58-10 | 58-11 | 59-0 | 59-1 | 59-2 | 59-3 | 59-4 |
| 525.00 | 64-8 | 64-9 | 64-11 | 65-0 | 65-1 | 65-2 | 65-4 | 65-5 | 65-6 | 65-6 |
| 550.00 | 71-1 | 71-3 | 71-4 | 71-6 | 71-7 | 71-8 | 71-10 | 71-11 | 72-0 | 72-1 |
| 575.00 | 77-11 | 78-0 | 78-2 | 78-3 | 78-5 | 78-6 | 78-8 | 78-9 | 78-10 | 78-11 |
| 600.00 | 85-0 | 85-2 | 85-3 | 85-5 | 85-6 | 85-8 | 85-10 | 85-11 | 86-0 | 86-1 |
| 625.00 | 92-5 | 92-7 | 92-9 | 92-10 | 93-0 | 93-2 | 93-4 | 93-5 | 93-7 | 93-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-5 | 14-6 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-7 | 14-8 |
| 275.00 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-8 | 17-9 |
| 300.00 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-1 |
| 325.00 | 24-6 | 24-6 | 24-7 | 24-7 | 24-8 | 24-8 | 24-9 | 24-9 | 24-9 | 24-10 |
| 350.00 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 | 28-8 | 28-9 | 28-9 | 28-9 | 28-10 |
| 375.00 | 32-8 | 32-9 | 32-10 | 32-10 | 32-11 | 32-11 | 33-0 | 33-1 | 33-1 | 33-1 |
| 400.00 | 37-3 | 37-4 | 37-4 | 37-5 | 37-6 | 37-7 | 37-7 | 37-8 | 37-8 | 37-9 |
| 425.00 | 42-1 | 42-2 | 42-3 | 42-4 | 42-5 | 42-5 | 42-6 | 42-7 | 42-7 | 42-8 |
| 450.00 | 47-3 | 47-4 | 47-5 | 47-6 | 47-7 | 47-8 | 47-9 | 47-10 | 47-10 | 47-11 |
| 475.00 | 52-9 | 52-10 | 52-11 | 53-0 | 53-1 | 53-2 | 53-3 | 53-4 | 53-5 | 53-5 |
| 500.00 | 58-7 | 58-8 | 58-9 | 58-10 | 58-11 | 59-0 | 59-2 | 59-3 | 59-3 | 59-4 |
| 525.00 | 64-8 | 64-10 | 64-11 | 65-0 | 65-1 | 65-3 | 65-4 | 65-5 | 65-6 | 65-6 |
| 550.00 | 71-2 | 71-3 | 71-4 | 71-6 | 71-7 | 71-8 | 71-10 | 71-11 | 72-0 | 72-1 |
| 575.00 | 77-11 | 78-0 | 78-2 | 78-3 | 78-5 | 78-6 | 78-8 | 78-9 | 78-10 | 78-11 |
| 600.00 | 85-0 | 85-2 | 85-3 | 85-5 | 85-7 | 85-8 | 85-10 | 85-11 | 86-0 | 86-1 |
| 625.00 | 92-5 | 92-7 | 92-9 | 92-11 | 93-0 | 93-2 | 93-4 | 93-6 | 93-7 | 93-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 1.68 | 1998 | 1.68 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 0.98 | 1005 | 0.96 | 1026 |
| 30 | 0 | 0 | 0 | 0.785 | 1.13 | 867 | 1.11 | 886 |
| 40 | 0 | 0 | 0 | 0.785 | 1.28 | 768 | 1.25 | 784 |
| 50 | 0 | 0 | 0 | 0.785 | 1.41 | 694 | 1.39 | 708 |
| 60 | 0 | 0 | 0 | 0.785 | 1.54 | 637 | 1.52 | 648 |
| 70 | 0 | 0 | 0 | 0.785 | 1.66 | 591 | 1.64 | 601 |
| 80 | 0 | 0 | 0 | 0.785 | 1.78 | 553 | 1.75 | 562 |
| 90 | 0 | 0 | 0 | 0.785 | 1.88 | 522 | 1.86 | 529 |
| 100 | 0 | 0 | 0 | 0.785 | 1.96 | 503 | 1.96 | 503 |
| 110 | 0 | 0 | 0 | 0.785 | 2.02 | 487 | 2.02 | 488 |
| 120 | 0 | 0 | 0 | 0.785 | 2.08 | 474 | 2.08 | 474 |
| 130 | 0 | 0 | 0 | 0.785 | 2.13 | 461 | 2.13 | 461 |
| 167 | 0 | 0 | 0 | 0.785 | 2.34 | 420 | 2.34 | 420 |
| 212 | 0 | 0 | 0 | 0.785 | 2.57 | 383 | 2.57 | 383 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 6.74 | 2000 | 6.74 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 6.08 | 648 | 6.06 | 650 |
| 30 | 0 | 0 | 0 | 0.785 | 6.21 | 634 | 6.19 | 637 |
| 40 | 0 | 0 | 0 | 0.785 | 6.34 | 621 | 6.32 | 624 |
| 50 | 0 | 0 | 0 | 0.785 | 6.47 | 609 | 6.44 | 612 |
| 60 | 0 | 0 | 0 | 0.785 | 6.6 | 598 | 6.57 | 600 |
| 70 | 0 | 0 | 0 | 0.785 | 6.72 | 587 | 6.69 | 589 |
| 80 | 0 | 0 | 0 | 0.785 | 6.84 | 577 | 6.81 | 579 |
| 90 | 0 | 0 | 0 | 0.785 | 6.96 | 567 | 6.93 | 569 |
| 100 | 0 | 0 | 0 | 0.785 | 7.06 | 559 | 7.05 | 560 |
| 110 | 0 | 0 | 0 | 0.785 | 7.13 | 553 | 7.13 | 553 |
| 120 | 0 | 0 | 0 | 0.785 | 7.21 | 547 | 7.21 | 547 |
| 130 | 0 | 0 | 0 | 0.785 | 7.28 | 542 | 7.28 | 542 |
| 167 | 0 | 0 | 0 | 0.785 | 7.54 | 524 | 7.54 | 524 |
| 212 | 0 | 0 | 0 | 0.785 | 7.85 | 503 | 7.85 | 503 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 15.24 | 2000 | 15.24 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 14.6 | 611 | 14.58 | 612 |
| 30 | 0 | 0 | 0 | 0.785 | 14.73 | 605 | 14.7 | 606 |
| 40 | 0 | 0 | 0 | 0.785 | 14.85 | 600 | 14.83 | 601 |
| 50 | 0 | 0 | 0 | 0.785 | 14.98 | 596 | 14.95 | 597 |
| 60 | 0 | 0 | 0 | 0.785 | 15.1 | 591 | 15.08 | 592 |
| 70 | 0 | 0 | 0 | 0.785 | 15.22 | 586 | 15.2 | 587 |
| 80 | 0 | 0 | 0 | 0.785 | 15.35 | 581 | 15.32 | 583 |
| 90 | 0 | 0 | 0 | 0.785 | 15.47 | 577 | 15.44 | 578 |
| 100 | 0 | 0 | 0 | 0.785 | 15.58 | 573 | 15.56 | 574 |
| 110 | 0 | 0 | 0 | 0.785 | 15.66 | 570 | 15.66 | 570 |
| 120 | 0 | 0 | 0 | 0.785 | 15.73 | 567 | 15.73 | 567 |
| 130 | 0 | 0 | 0 | 0.785 | 15.81 | 565 | 15.81 | 565 |
| 167 | 0 | 0 | 0 | 0.785 | 16.09 | 555 | 16.09 | 555 |
| 212 | 0 | 0 | 0 | 0.785 | 16.42 | 544 | 16.42 | 544 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 27.32 | 2000 | 27.32 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 26.68 | 599 | 26.66 | 599 |
| 30 | 0 | 0 | 0 | 0.785 | 26.81 | 596 | 26.79 | 597 |
| 40 | 0 | 0 | 0 | 0.785 | 26.93 | 594 | 26.91 | 594 |
| 50 | 0 | 0 | 0 | 0.785 | 27.06 | 591 | 27.03 | 591 |
| 60 | 0 | 0 | 0 | 0.785 | 27.18 | 588 | 27.15 | 589 |
| 70 | 0 | 0 | 0 | 0.785 | 27.3 | 586 | 27.28 | 586 |
| 80 | 0 | 0 | 0 | 0.785 | 27.43 | 583 | 27.4 | 584 |
| 90 | 0 | 0 | 0 | 0.785 | 27.55 | 581 | 27.52 | 581 |
| 100 | 0 | 0 | 0 | 0.785 | 27.67 | 578 | 27.64 | 579 |
| 110 | 0 | 0 | 0 | 0.785 | 27.74 | 577 | 27.74 | 577 |
| 120 | 0 | 0 | 0 | 0.785 | 27.82 | 575 | 27.82 | 575 |
| 130 | 0 | 0 | 0 | 0.785 | 27.9 | 574 | 27.9 | 574 |
| 167 | 0 | 0 | 0 | 0.785 | 28.19 | 568 | 28.19 | 568 |
| 212 | 0 | 0 | 0 | 0.785 | 28.53 | 561 | 28.53 | 561 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 43.16 | 2000 | 43.16 | 2000* |
| 20 | 0 | 0 | 0 | 0.785 | 42.52 | 594 | 42.5 | 594 |
| 30 | 0 | 0 | 0 | 0.785 | 42.65 | 592 | 42.62 | 592 |
| 40 | 0 | 0 | 0 | 0.785 | 42.77 | 590 | 42.75 | 591 |
| 50 | 0 | 0 | 0 | 0.785 | 42.9 | 589 | 42.87 | 589 |
| 60 | 0 | 0 | 0 | 0.785 | 43.02 | 587 | 42.99 | 588 |
| 70 | 0 | 0 | 0 | 0.785 | 43.14 | 586 | 43.11 | 586 |
| 80 | 0 | 0 | 0 | 0.785 | 43.26 | 584 | 43.24 | 584 |
| 90 | 0 | 0 | 0 | 0.785 | 43.39 | 582 | 43.36 | 583 |
| 100 | 0 | 0 | 0 | 0.785 | 43.5 | 581 | 43.48 | 581 |
| 110 | 0 | 0 | 0 | 0.785 | 43.58 | 580 | 43.58 | 580 |
| 120 | 0 | 0 | 0 | 0.785 | 43.66 | 579 | 43.66 | 579 |
| 130 | 0 | 0 | 0 | 0.785 | 43.74 | 578 | 43.74 | 578 |
| 167 | 0 | 0 | 0 | 0.785 | 44.03 | 574 | 44.03 | 574 |
| 212 | 0 | 0 | 0 | 0.785 | 44.38 | 570 | 44.38 | 570 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100.00 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 |
| 150.00 | 2-2 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-6 |
| 175.00 | 2-11 | 3-5 | 3-10 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-2 |
| 200.00 | 3-10 | 4-5 | 5-0 | 5-7 | 6-1 | 6-7 | 7-0 | 7-5 | 7-10 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 1-11 | 2-0 |
| 125.00 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 |
| 150.00 | 2-2 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-5 | 4-6 |
| 175.00 | 3-0 | 3-6 | 3-11 | 4-4 | 4-9 | 5-1 | 5-5 | 5-9 | 6-0 | 6-2 |
| 200.00 | 3-11 | 4-6 | 5-1 | 5-8 | 6-2 | 6-8 | 7-1 | 7-7 | 7-10 | 8-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



OH812.300

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 |
| 125.00 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 150.00 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 |
| 175.00 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 |
| 200.00 | 6-1 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 |
| 225.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 |
| 250.00 | 9-6 | 9-8 | 9-11 | 10-1 | 10-3 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 |
| 125.00 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 | 2-9 |
| 150.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 |
| 175.00 | 4-8 | 4-9 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 200.00 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 |
| 225.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 8-11 | 9-0 |
| 250.00 | 9-6 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.301

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 175.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 |
| 200.00 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 |
| 225.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 |
| 250.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 |
| 275.00 | 12-3 | 12-4 | 12-5 | 12-7 | 12-8 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 |
| 300.00 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 |
| 325.00 | 17-1 | 17-3 | 17-5 | 17-7 | 17-8 | 17-10 | 18-0 | 18-2 | 18-3 | 18-5 |
| 350.00 | 19-10 | 20-0 | 20-2 | 20-5 | 20-7 | 20-9 | 20-11 | 21-0 | 21-2 | 21-4 |
| 375.00 | 22-10 | 23-0 | 23-3 | 23-5 | 23-7 | 23-10 | 24-0 | 24-2 | 24-4 | 24-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 |
| 175.00 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-4 |
| 200.00 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 |
| 225.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-10 |
| 250.00 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 |
| 275.00 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 |
| 300.00 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 |
| 325.00 | 17-2 | 17-4 | 17-5 | 17-7 | 17-9 | 17-11 | 18-0 | 18-2 | 18-4 | 18-5 |
| 350.00 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-4 |
| 375.00 | 22-10 | 23-1 | 23-3 | 23-5 | 23-8 | 23-10 | 24-0 | 24-3 | 24-5 | 24-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.302

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 |
| 225.00 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 |
| 250.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 |
| 275.00 | 12-7 | 12-7 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 |
| 300.00 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 | 15-7 |
| 325.00 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-3 |
| 350.00 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 |
| 375.00 | 23-5 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-4 |
| 400.00 | 26-8 | 26-9 | 26-11 | 27-0 | 27-2 | 27-3 | 27-5 | 27-6 | 27-8 | 27-9 |
| 425.00 | 30-1 | 30-3 | 30-5 | 30-6 | 30-8 | 30-10 | 30-11 | 31-1 | 31-3 | 31-4 |
| 450.00 | 33-10 | 33-11 | 34-1 | 34-3 | 34-5 | 34-7 | 34-9 | 34-11 | 35-0 | 35-2 |
| 475.00 | 37-8 | 37-10 | 38-0 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-1 | 39-3 |
| 500.00 | 41-9 | 42-0 | 42-2 | 42-5 | 42-7 | 42-9 | 43-0 | 43-2 | 43-4 | 43-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 |
| 225.00 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 |
| 250.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 |
| 275.00 | 12-7 | 12-8 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 |
| 300.00 | 15-0 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 | 15-7 |
| 325.00 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-3 |
| 350.00 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 21-0 | 21-1 | 21-2 | 21-3 |
| 375.00 | 23-5 | 23-7 | 23-8 | 23-9 | 23-10 | 24-0 | 24-1 | 24-2 | 24-4 | 24-4 |
| 400.00 | 26-8 | 26-10 | 26-11 | 27-1 | 27-2 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 |
| 425.00 | 30-2 | 30-3 | 30-5 | 30-7 | 30-9 | 30-10 | 31-0 | 31-2 | 31-3 | 31-4 |
| 450.00 | 33-10 | 34-0 | 34-2 | 34-4 | 34-5 | 34-7 | 34-9 | 34-11 | 35-1 | 35-2 |
| 475.00 | 37-9 | 37-11 | 38-1 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-1 | 39-3 |
| 500.00 | 41-10 | 42-0 | 42-3 | 42-5 | 42-7 | 42-10 | 43-0 | 43-2 | 43-5 | 43-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-10 |
| 275.00 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 |
| 300.00 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 |
| 325.00 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 |
| 350.00 | 20-9 | 20-9 | 20-10 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 | 21-2 | 21-3 |
| 375.00 | 23-10 | 23-11 | 23-11 | 24-0 | 24-1 | 24-2 | 24-3 | 24-3 | 24-4 | 24-5 |
| 400.00 | 27-1 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 |
| 425.00 | 30-7 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 |
| 450.00 | 34-4 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 | 34-11 | 35-1 | 35-2 | 35-3 |
| 475.00 | 38-4 | 38-5 | 38-7 | 38-8 | 38-9 | 38-10 | 39-0 | 39-1 | 39-2 | 39-4 |
| 500.00 | 42-6 | 42-7 | 42-9 | 42-10 | 43-0 | 43-1 | 43-3 | 43-4 | 43-6 | 43-7 |
| 525.00 | 46-11 | 47-0 | 47-2 | 47-4 | 47-5 | 47-7 | 47-9 | 47-10 | 48-0 | 48-1 |
| 550.00 | 51-6 | 51-8 | 51-10 | 52-0 | 52-2 | 52-3 | 52-5 | 52-7 | 52-9 | 52-10 |
| 575.00 | 56-4 | 56-7 | 56-8 | 56-10 | 57-0 | 57-2 | 57-4 | 57-6 | 57-8 | 57-10 |
| 600.00 | 61-5 | 61-8 | 61-10 | 62-0 | 62-2 | 62-4 | 62-6 | 62-8 | 62-11 | 63-0 |
| 625.00 | 66-9 | 66-11 | 67-2 | 67-4 | 67-6 | 67-9 | 67-11 | 68-1 | 68-4 | 68-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 |
| 275.00 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 |
| 300.00 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 |
| 325.00 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 |
| 350.00 | 20-9 | 20-10 | 20-10 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 | 21-3 | 21-3 |
| 375.00 | 23-10 | 23-11 | 24-0 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-4 | 24-5 |
| 400.00 | 27-1 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 |
| 425.00 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 |
| 450.00 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 | 34-11 | 35-0 | 35-1 | 35-2 | 35-3 |
| 475.00 | 38-4 | 38-5 | 38-7 | 38-8 | 38-9 | 38-11 | 39-0 | 39-1 | 39-3 | 39-4 |
| 500.00 | 42-6 | 42-8 | 42-9 | 42-11 | 43-0 | 43-2 | 43-3 | 43-5 | 43-6 | 43-7 |
| 525.00 | 46-11 | 47-1 | 47-2 | 47-4 | 47-6 | 47-7 | 47-9 | 47-11 | 48-0 | 48-1 |
| 550.00 | 51-7 | 51-8 | 51-10 | 52-0 | 52-2 | 52-4 | 52-5 | 52-7 | 52-9 | 52-10 |
| 575.00 | 56-5 | 56-7 | 56-9 | 56-11 | 57-1 | 57-3 | 57-5 | 57-7 | 57-9 | 57-10 |
| 600.00 | 61-6 | 61-8 | 61-10 | 62-0 | 62-3 | 62-5 | 62-7 | 62-9 | 62-11 | 63-0 |
| 625.00 | 66-10 | 67-0 | 67-2 | 67-5 | 67-7 | 67-9 | 68-0 | 68-2 | 68-4 | 68-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 1.37 | 2446 | 1.34 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 0.53 | 1869 | 0.49 | 2013 |
| 30 | 0 | 0 | 0 | 0.785 | 0.67 | 1475 | 0.61 | 1619 |
| 40 | 0 | 0 | 0 | 0.785 | 0.82 | 1192 | 0.75 | 1310 |
| 50 | 0 | 0 | 0 | 0.785 | 0.98 | 997 | 0.9 | 1087 |
| 60 | 0 | 0 | 0 | 0.785 | 1.14 | 861 | 1.06 | 929 |
| 70 | 0 | 0 | 0 | 0.785 | 1.29 | 764 | 1.2 | 815 |
| 80 | 0 | 0 | 0 | 0.785 | 1.42 | 691 | 1.34 | 731 |
| 90 | 0 | 0 | 0 | 0.785 | 1.55 | 634 | 1.47 | 666 |
| 100 | 0 | 0 | 0 | 0.785 | 1.63 | 603 | 1.6 | 615 |
| 110 | 0 | 0 | 0 | 0.785 | 1.7 | 579 | 1.7 | 579 |
| 120 | 0 | 0 | 0 | 0.785 | 1.76 | 557 | 1.76 | 557 |
| 130 | 0 | 0 | 0 | 0.785 | 1.83 | 538 | 1.83 | 538 |
| 167 | 0 | 0 | 0 | 0.785 | 2.05 | 479 | 2.05 | 479 |
| 212 | 0 | 0 | 0 | 0.785 | 2.31 | 426 | 2.31 | 426 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 5.4 | 2492 | 5.38 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 4.48 | 878 | 4.42 | 890 |
| 30 | 0 | 0 | 0 | 0.785 | 4.65 | 845 | 4.59 | 857 |
| 40 | 0 | 0 | 0 | 0.785 | 4.82 | 816 | 4.76 | 827 |
| 50 | 0 | 0 | 0 | 0.785 | 4.98 | 790 | 4.92 | 800 |
| 60 | 0 | 0 | 0 | 0.785 | 5.14 | 765 | 5.08 | 775 |
| 70 | 0 | 0 | 0 | 0.785 | 5.3 | 743 | 5.23 | 752 |
| 80 | 0 | 0 | 0 | 0.785 | 5.45 | 723 | 5.38 | 731 |
| 90 | 0 | 0 | 0 | 0.785 | 5.59 | 704 | 5.53 | 712 |
| 100 | 0 | 0 | 0 | 0.785 | 5.73 | 687 | 5.67 | 694 |
| 110 | 0 | 0 | 0 | 0.785 | 5.83 | 675 | 5.81 | 678 |
| 120 | 0 | 0 | 0 | 0.785 | 5.92 | 665 | 5.92 | 665 |
| 130 | 0 | 0 | 0 | 0.785 | 6 | 656 | 6 | 656 |
| 167 | 0 | 0 | 0 | 0.785 | 6.31 | 625 | 6.31 | 625 |
| 212 | 0 | 0 | 0 | 0.785 | 6.66 | 592 | 6.66 | 592 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 12.16 | 2497 | 12.15 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 11.27 | 788 | 11.21 | 792 |
| 30 | 0 | 0 | 0 | 0.785 | 11.43 | 777 | 11.37 | 781 |
| 40 | 0 | 0 | 0 | 0.785 | 11.59 | 767 | 11.53 | 770 |
| 50 | 0 | 0 | 0 | 0.785 | 11.75 | 756 | 11.69 | 760 |
| 60 | 0 | 0 | 0 | 0.785 | 11.9 | 747 | 11.85 | 750 |
| 70 | 0 | 0 | 0 | 0.785 | 12.06 | 737 | 12 | 741 |
| 80 | 0 | 0 | 0 | 0.785 | 12.21 | 728 | 12.15 | 732 |
| 90 | 0 | 0 | 0 | 0.785 | 12.36 | 719 | 12.3 | 723 |
| 100 | 0 | 0 | 0 | 0.785 | 12.51 | 711 | 12.45 | 714 |
| 110 | 0 | 0 | 0 | 0.785 | 12.63 | 704 | 12.59 | 706 |
| 120 | 0 | 0 | 0 | 0.785 | 12.73 | 699 | 12.73 | 699 |
| 130 | 0 | 0 | 0 | 0.785 | 12.82 | 694 | 12.82 | 694 |
| 167 | 0 | 0 | 0 | 0.785 | 13.16 | 676 | 13.16 | 676 |
| 212 | 0 | 0 | 0 | 0.785 | 13.55 | 657 | 13.55 | 657 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 21.72 | 2499 | 21.71 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 20.84 | 762 | 20.78 | 764 |
| 30 | 0 | 0 | 0 | 0.785 | 20.99 | 756 | 20.94 | 758 |
| 40 | 0 | 0 | 0 | 0.785 | 21.15 | 751 | 21.1 | 752 |
| 50 | 0 | 0 | 0 | 0.785 | 21.31 | 745 | 21.25 | 747 |
| 60 | 0 | 0 | 0 | 0.785 | 21.46 | 740 | 21.41 | 742 |
| 70 | 0 | 0 | 0 | 0.785 | 21.62 | 735 | 21.56 | 737 |
| 80 | 0 | 0 | 0 | 0.785 | 21.77 | 730 | 21.71 | 732 |
| 90 | 0 | 0 | 0 | 0.785 | 21.92 | 725 | 21.86 | 727 |
| 100 | 0 | 0 | 0 | 0.785 | 22.07 | 720 | 22.01 | 722 |
| 110 | 0 | 0 | 0 | 0.785 | 22.21 | 716 | 22.16 | 717 |
| 120 | 0 | 0 | 0 | 0.785 | 22.3 | 713 | 22.3 | 713 |
| 130 | 0 | 0 | 0 | 0.785 | 22.4 | 710 | 22.4 | 710 |
| 167 | 0 | 0 | 0 | 0.785 | 22.75 | 699 | 22.75 | 699 |
| 212 | 0 | 0 | 0 | 0.785 | 23.17 | 687 | 23.17 | 687 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 34.16 | 2499 | 34.15 | 2500* |
| 20 | 0 | 0 | 0 | 0.785 | 33.28 | 750 | 33.23 | 751 |
| 30 | 0 | 0 | 0 | 0.785 | 33.44 | 747 | 33.39 | 748 |
| 40 | 0 | 0 | 0 | 0.785 | 33.6 | 743 | 33.54 | 745 |
| 50 | 0 | 0 | 0 | 0.785 | 33.75 | 740 | 33.7 | 741 |
| 60 | 0 | 0 | 0 | 0.785 | 33.91 | 737 | 33.85 | 738 |
| 70 | 0 | 0 | 0 | 0.785 | 34.06 | 734 | 34 | 735 |
| 80 | 0 | 0 | 0 | 0.785 | 34.21 | 730 | 34.15 | 732 |
| 90 | 0 | 0 | 0 | 0.785 | 34.37 | 727 | 34.31 | 729 |
| 100 | 0 | 0 | 0 | 0.785 | 34.52 | 724 | 34.46 | 725 |
| 110 | 0 | 0 | 0 | 0.785 | 34.66 | 721 | 34.61 | 722 |
| 120 | 0 | 0 | 0 | 0.785 | 34.75 | 720 | 34.75 | 720 |
| 130 | 0 | 0 | 0 | 0.785 | 34.85 | 718 | 34.85 | 718 |
| 167 | 0 | 0 | 0 | 0.785 | 35.21 | 711 | 35.21 | 711 |
| 212 | 0 | 0 | 0 | 0.785 | 35.64 | 702 | 35.64 | 702 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-8 |
| 125.00 | 0-9 | 0-11 | 1-2 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 |
| 150.00 | 1-1 | 1-4 | 1-8 | 2-0 | 2-5 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 |
| 175.00 | 1-6 | 1-10 | 2-4 | 2-9 | 3-3 | 3-8 | 4-1 | 4-6 | 4-11 | 5-2 |
| 200.00 | 1-11 | 2-5 | 3-0 | 3-7 | 4-3 | 4-10 | 5-5 | 5-11 | 6-5 | 6-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-4 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-8 |
| 125.00 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 | 2-8 |
| 150.00 | 1-2 | 1-6 | 1-10 | 2-3 | 2-7 | 2-11 | 3-2 | 3-6 | 3-8 | 3-10 |
| 175.00 | 1-7 | 2-0 | 2-6 | 3-0 | 3-6 | 3-11 | 4-4 | 4-9 | 5-0 | 5-2 |
| 200.00 | 2-1 | 2-8 | 3-4 | 3-11 | 4-7 | 5-2 | 5-8 | 6-2 | 6-6 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 |
| 125.00 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 |
| 150.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 175.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 |
| 200.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 |
| 225.00 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 |
| 250.00 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 |
| 125.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 |
| 150.00 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 |
| 175.00 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 |
| 200.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-9 | 5-10 |
| 225.00 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 |
| 250.00 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 |
| 175.00 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 200.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 |
| 225.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 250.00 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 |
| 275.00 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 |
| 300.00 | 11-3 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-5 | 12-7 |
| 325.00 | 13-2 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 |
| 350.00 | 15-3 | 15-6 | 15-9 | 15-11 | 16-2 | 16-4 | 16-7 | 16-9 | 16-11 | 17-2 |
| 375.00 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 19-0 | 19-3 | 19-6 | 19-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 | 3-2 |
| 175.00 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 |
| 200.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 |
| 225.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 250.00 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 |
| 275.00 | 9-6 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-7 |
| 300.00 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-4 | 12-6 | 12-8 |
| 325.00 | 13-3 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 |
| 350.00 | 15-4 | 15-7 | 15-9 | 16-0 | 16-3 | 16-5 | 16-8 | 16-10 | 17-1 | 17-3 |
| 375.00 | 17-7 | 17-11 | 18-2 | 18-5 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 | 19-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 225.00 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 |
| 250.00 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 |
| 275.00 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-5 |
| 300.00 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 |
| 325.00 | 13-8 | 13-10 | 13-11 | 14-0 | 14-1 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 |
| 350.00 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 |
| 375.00 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 | 19-4 | 19-6 |
| 400.00 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 21-10 | 22-0 | 22-2 |
| 425.00 | 23-6 | 23-8 | 23-10 | 24-0 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 |
| 450.00 | 26-4 | 26-6 | 26-9 | 26-11 | 27-1 | 27-4 | 27-6 | 27-8 | 27-11 | 28-1 |
| 475.00 | 29-4 | 29-7 | 29-10 | 30-0 | 30-3 | 30-5 | 30-8 | 30-11 | 31-1 | 31-4 |
| 500.00 | 32-6 | 32-9 | 33-0 | 33-3 | 33-6 | 33-9 | 34-0 | 34-3 | 34-6 | 34-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 |
| 225.00 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 |
| 250.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 |
| 275.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 |
| 300.00 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 |
| 325.00 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 |
| 350.00 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-6 | 16-8 | 16-9 | 16-11 | 17-0 |
| 375.00 | 18-4 | 18-5 | 18-7 | 18-9 | 18-10 | 19-0 | 19-2 | 19-3 | 19-5 | 19-6 |
| 400.00 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-7 | 21-9 | 21-11 | 22-1 | 22-2 |
| 425.00 | 23-6 | 23-9 | 23-11 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 |
| 450.00 | 26-5 | 26-7 | 26-10 | 27-0 | 27-2 | 27-5 | 27-7 | 27-9 | 28-0 | 28-2 |
| 475.00 | 29-5 | 29-8 | 29-10 | 30-1 | 30-4 | 30-6 | 30-9 | 31-0 | 31-2 | 31-4 |
| 500.00 | 32-7 | 32-10 | 33-1 | 33-4 | 33-7 | 33-10 | 34-1 | 34-4 | 34-7 | 34-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 |
| 275.00 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 |
| 300.00 | 11-11 | 12-0 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 |
| 325.00 | 14-0 | 14-1 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-5 | 14-6 | 14-7 |
| 350.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 |
| 375.00 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 |
| 400.00 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 |
| 425.00 | 24-0 | 24-1 | 24-2 | 24-4 | 24-5 | 24-6 | 24-8 | 24-9 | 24-10 | 25-0 |
| 450.00 | 26-11 | 27-0 | 27-2 | 27-3 | 27-5 | 27-6 | 27-8 | 27-9 | 27-11 | 28-0 |
| 475.00 | 30-0 | 30-1 | 30-3 | 30-5 | 30-6 | 30-8 | 30-10 | 30-11 | 31-1 | 31-3 |
| 500.00 | 33-3 | 33-5 | 33-6 | 33-8 | 33-10 | 34-0 | 34-2 | 34-4 | 34-5 | 34-7 |
| 525.00 | 36-8 | 36-10 | 37-0 | 37-2 | 37-4 | 37-6 | 37-8 | 37-10 | 38-0 | 38-2 |
| 550.00 | 40-3 | 40-5 | 40-8 | 40-10 | 41-0 | 41-2 | 41-5 | 41-7 | 41-9 | 41-11 |
| 575.00 | 44-0 | 44-3 | 44-5 | 44-8 | 44-10 | 45-1 | 45-3 | 45-6 | 45-8 | 45-10 |
| 600.00 | 48-0 | 48-2 | 48-5 | 48-8 | 48-10 | 49-1 | 49-4 | 49-6 | 49-9 | 50-0 |
| 625.00 | 52-1 | 52-4 | 52-7 | 52-10 | 53-1 | 53-4 | 53-7 | 53-9 | 54-0 | 54-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 |
| 275.00 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 |
| 300.00 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 | 12-5 |
| 325.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 |
| 350.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-9 | 16-10 | 16-11 |
| 375.00 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 |
| 400.00 | 21-3 | 21-4 | 21-5 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-1 | 22-2 |
| 425.00 | 24-0 | 24-1 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 | 24-9 | 24-11 | 25-0 |
| 450.00 | 26-11 | 27-1 | 27-2 | 27-4 | 27-5 | 27-7 | 27-8 | 27-10 | 27-11 | 28-0 |
| 475.00 | 30-0 | 30-2 | 30-4 | 30-5 | 30-7 | 30-9 | 30-10 | 31-0 | 31-2 | 31-3 |
| 500.00 | 33-3 | 33-5 | 33-7 | 33-9 | 33-11 | 34-1 | 34-3 | 34-4 | 34-6 | 34-8 |
| 525.00 | 36-9 | 36-11 | 37-1 | 37-3 | 37-5 | 37-7 | 37-9 | 37-11 | 38-1 | 38-3 |
| 550.00 | 40-4 | 40-6 | 40-8 | 40-11 | 41-1 | 41-3 | 41-5 | 41-8 | 41-10 | 42-0 |
| 575.00 | 44-1 | 44-4 | 44-6 | 44-9 | 44-11 | 45-2 | 45-4 | 45-6 | 45-9 | 45-11 |
| 600.00 | 48-1 | 48-3 | 48-6 | 48-9 | 48-11 | 49-2 | 49-5 | 49-7 | 49-10 | 50-1 |
| 625.00 | 52-2 | 52-5 | 52-8 | 52-11 | 53-2 | 53-5 | 53-8 | 53-11 | 54-2 | 54-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 1.18 | 2837 | 1.12 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 0.35 | 2786 | 0.32 | 3085 |
| 30 | 0 | 0 | 0 | 0.785 | 0.44 | 2236 | 0.38 | 2586 |
| 40 | 0 | 0 | 0 | 0.785 | 0.56 | 1763 | 0.46 | 2116 |
| 50 | 0 | 0 | 0 | 0.785 | 0.7 | 1397 | 0.58 | 1703 |
| 60 | 0 | 0 | 0 | 0.785 | 0.86 | 1137 | 0.72 | 1372 |
| 70 | 0 | 0 | 0 | 0.785 | 1.02 | 959 | 0.87 | 1129 |
| 80 | 0 | 0 | 0 | 0.785 | 1.18 | 835 | 1.02 | 958 |
| 90 | 0 | 0 | 0 | 0.785 | 1.32 | 745 | 1.17 | 837 |
| 100 | 0 | 0 | 0 | 0.785 | 1.39 | 706 | 1.31 | 747 |
| 110 | 0 | 0 | 0 | 0.785 | 1.46 | 672 | 1.45 | 679 |
| 120 | 0 | 0 | 0 | 0.785 | 1.54 | 639 | 1.54 | 639 |
| 130 | 0 | 0 | 0 | 0.785 | 1.61 | 612 | 1.61 | 612 |
| 167 | 0 | 0 | 0 | 0.785 | 1.85 | 532 | 1.85 | 532 |
| 212 | 0 | 0 | 0 | 0.785 | 2.12 | 464 | 2.12 | 464 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 4.53 | 2968 | 4.48 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 3.32 | 1183 | 3.19 | 1232 |
| 30 | 0 | 0 | 0 | 0.785 | 3.54 | 1111 | 3.41 | 1154 |
| 40 | 0 | 0 | 0 | 0.785 | 3.74 | 1050 | 3.61 | 1088 |
| 50 | 0 | 0 | 0 | 0.785 | 3.94 | 997 | 3.81 | 1031 |
| 60 | 0 | 0 | 0 | 0.785 | 4.13 | 951 | 4 | 982 |
| 70 | 0 | 0 | 0 | 0.785 | 4.32 | 911 | 4.19 | 938 |
| 80 | 0 | 0 | 0 | 0.785 | 4.5 | 875 | 4.37 | 900 |
| 90 | 0 | 0 | 0 | 0.785 | 4.67 | 843 | 4.54 | 866 |
| 100 | 0 | 0 | 0 | 0.785 | 4.83 | 814 | 4.71 | 835 |
| 110 | 0 | 0 | 0 | 0.785 | 4.96 | 793 | 4.88 | 807 |
| 120 | 0 | 0 | 0 | 0.785 | 5.06 | 778 | 5.04 | 781 |
| 130 | 0 | 0 | 0 | 0.785 | 5.16 | 763 | 5.16 | 763 |
| 167 | 0 | 0 | 0 | 0.785 | 5.5 | 716 | 5.5 | 716 |
| 212 | 0 | 0 | 0 | 0.785 | 5.89 | 669 | 5.89 | 669 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 10.15 | 2988 | 10.1 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 8.96 | 989 | 8.85 | 1001 |
| 30 | 0 | 0 | 0 | 0.785 | 9.16 | 967 | 9.05 | 979 |
| 40 | 0 | 0 | 0 | 0.785 | 9.36 | 947 | 9.24 | 959 |
| 50 | 0 | 0 | 0 | 0.785 | 9.55 | 928 | 9.44 | 940 |
| 60 | 0 | 0 | 0 | 0.785 | 9.74 | 910 | 9.62 | 921 |
| 70 | 0 | 0 | 0 | 0.785 | 9.93 | 894 | 9.81 | 904 |
| 80 | 0 | 0 | 0 | 0.785 | 10.11 | 878 | 9.99 | 888 |
| 90 | 0 | 0 | 0 | 0.785 | 10.29 | 862 | 10.17 | 872 |
| 100 | 0 | 0 | 0 | 0.785 | 10.46 | 848 | 10.35 | 858 |
| 110 | 0 | 0 | 0 | 0.785 | 10.64 | 835 | 10.52 | 844 |
| 120 | 0 | 0 | 0 | 0.785 | 10.74 | 826 | 10.69 | 830 |
| 130 | 0 | 0 | 0 | 0.785 | 10.85 | 818 | 10.85 | 818 |
| 167 | 0 | 0 | 0 | 0.785 | 11.24 | 790 | 11.24 | 790 |
| 212 | 0 | 0 | 0 | 0.785 | 11.69 | 760 | 11.69 | 760 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 18.07 | 2994 | 18.03 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 16.9 | 936 | 16.79 | 942 |
| 30 | 0 | 0 | 0 | 0.785 | 17.09 | 925 | 16.98 | 931 |
| 40 | 0 | 0 | 0 | 0.785 | 17.28 | 915 | 17.17 | 921 |
| 50 | 0 | 0 | 0 | 0.785 | 17.47 | 906 | 17.36 | 911 |
| 60 | 0 | 0 | 0 | 0.785 | 17.66 | 896 | 17.55 | 902 |
| 70 | 0 | 0 | 0 | 0.785 | 17.84 | 887 | 17.73 | 892 |
| 80 | 0 | 0 | 0 | 0.785 | 18.03 | 878 | 17.91 | 883 |
| 90 | 0 | 0 | 0 | 0.785 | 18.21 | 869 | 18.09 | 875 |
| 100 | 0 | 0 | 0 | 0.785 | 18.39 | 861 | 18.27 | 866 |
| 110 | 0 | 0 | 0 | 0.785 | 18.57 | 853 | 18.45 | 858 |
| 120 | 0 | 0 | 0 | 0.785 | 18.69 | 847 | 18.63 | 850 |
| 130 | 0 | 0 | 0 | 0.785 | 18.8 | 842 | 18.8 | 842 |
| 167 | 0 | 0 | 0 | 0.785 | 19.22 | 825 | 19.22 | 825 |
| 212 | 0 | 0 | 0 | 0.785 | 19.7 | 805 | 19.7 | 805 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.682 | 28.34 | 2996 | 28.3 | 3000* |
| 20 | 0 | 0 | 0 | 0.785 | 27.17 | 913 | 27.07 | 917 |
| 30 | 0 | 0 | 0 | 0.785 | 27.36 | 907 | 27.26 | 911 |
| 40 | 0 | 0 | 0 | 0.785 | 27.55 | 901 | 27.45 | 905 |
| 50 | 0 | 0 | 0 | 0.785 | 27.74 | 895 | 27.63 | 899 |
| 60 | 0 | 0 | 0 | 0.785 | 27.93 | 889 | 27.82 | 893 |
| 70 | 0 | 0 | 0 | 0.785 | 28.11 | 884 | 28 | 887 |
| 80 | 0 | 0 | 0 | 0.785 | 28.3 | 878 | 28.18 | 881 |
| 90 | 0 | 0 | 0 | 0.785 | 28.48 | 873 | 28.37 | 876 |
| 100 | 0 | 0 | 0 | 0.785 | 28.66 | 867 | 28.55 | 871 |
| 110 | 0 | 0 | 0 | 0.785 | 28.84 | 862 | 28.73 | 865 |
| 120 | 0 | 0 | 0 | 0.785 | 28.98 | 858 | 28.9 | 860 |
| 130 | 0 | 0 | 0 | 0.785 | 29.09 | 855 | 29.08 | 855 |
| 167 | 0 | 0 | 0 | 0.785 | 29.52 | 843 | 29.52 | 843 |
| 212 | 0 | 0 | 0 | 0.785 | 30.02 | 829 | 30.02 | 829 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 |
| 125.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 |
| 150.00 | 0-9 | 0-10 | 1-1 | 1-4 | 1-7 | 1-11 | 2-4 | 2-8 | 3-0 | 3-3 |
| 175.00 | 1-0 | 1-2 | 1-5 | 1-9 | 2-2 | 2-8 | 3-2 | 3-7 | 4-0 | 4-5 |
| 200.00 | 1-3 | 1-6 | 1-10 | 2-4 | 2-10 | 3-6 | 4-1 | 4-8 | 5-3 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-7 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-2 | 2-3 |
| 150.00 | 0-10 | 1-0 | 1-3 | 1-7 | 1-11 | 2-4 | 2-8 | 3-0 | 3-2 | 3-3 |
| 175.00 | 1-1 | 1-4 | 1-8 | 2-2 | 2-8 | 3-2 | 3-7 | 4-0 | 4-3 | 4-6 |
| 200.00 | 1-5 | 1-9 | 2-3 | 2-10 | 3-5 | 4-1 | 4-8 | 5-3 | 5-7 | 5-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 |
| 150.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 |
| 200.00 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 |
| 225.00 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-2 |
| 250.00 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-9 |
| 175.00 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 |
| 200.00 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 225.00 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 |
| 250.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-0 | 7-4 | 7-7 | 7-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 |
| 175.00 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 225.00 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 |
| 250.00 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 |
| 275.00 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 |
| 300.00 | 8-10 | 9-1 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 |
| 325.00 | 10-5 | 10-7 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 |
| 350.00 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 |
| 375.00 | 13-10 | 14-2 | 14-5 | 14-9 | 15-1 | 15-4 | 15-7 | 15-11 | 16-2 | 16-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 |
| 175.00 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 |
| 200.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 225.00 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 |
| 250.00 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 |
| 275.00 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 |
| 300.00 | 9-0 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-6 | 10-8 |
| 325.00 | 10-6 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-10 | 12-1 | 12-3 | 12-6 |
| 350.00 | 12-2 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 |
| 375.00 | 14-0 | 14-4 | 14-8 | 14-11 | 15-3 | 15-6 | 15-10 | 16-1 | 16-4 | 16-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 225.00 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 |
| 250.00 | 6-7 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 |
| 275.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 300.00 | 9-5 | 9-7 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 |
| 325.00 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 |
| 350.00 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-1 |
| 375.00 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 |
| 400.00 | 16-9 | 17-0 | 17-2 | 17-4 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 |
| 425.00 | 19-0 | 19-2 | 19-5 | 19-7 | 19-10 | 20-0 | 20-3 | 20-5 | 20-8 | 20-10 |
| 450.00 | 21-3 | 21-6 | 21-9 | 22-0 | 22-3 | 22-5 | 22-8 | 22-11 | 23-2 | 23-4 |
| 475.00 | 23-8 | 24-0 | 24-3 | 24-6 | 24-9 | 25-0 | 25-3 | 25-7 | 25-10 | 26-1 |
| 500.00 | 26-3 | 26-7 | 26-10 | 27-2 | 27-5 | 27-9 | 28-0 | 28-4 | 28-7 | 28-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 |
| 225.00 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 |
| 250.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-3 |
| 275.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 300.00 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 | 10-5 |
| 325.00 | 11-2 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 | 12-2 | 12-3 |
| 350.00 | 12-11 | 13-1 | 13-3 | 13-4 | 13-6 | 13-8 | 13-10 | 13-11 | 14-1 | 14-2 |
| 375.00 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 |
| 400.00 | 16-11 | 17-1 | 17-3 | 17-6 | 17-8 | 17-10 | 18-0 | 18-3 | 18-5 | 18-7 |
| 425.00 | 19-1 | 19-4 | 19-6 | 19-9 | 19-11 | 20-2 | 20-4 | 20-7 | 20-9 | 21-0 |
| 450.00 | 21-5 | 21-8 | 21-11 | 22-2 | 22-4 | 22-7 | 22-10 | 23-1 | 23-3 | 23-6 |
| 475.00 | 23-10 | 24-1 | 24-5 | 24-8 | 24-11 | 25-2 | 25-5 | 25-8 | 26-0 | 26-3 |
| 500.00 | 26-5 | 26-9 | 27-0 | 27-4 | 27-8 | 27-11 | 28-3 | 28-6 | 28-9 | 29-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 |
| 275.00 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 |
| 300.00 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 |
| 325.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 |
| 350.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 |
| 375.00 | 15-2 | 15-4 | 15-5 | 15-6 | 15-7 | 15-9 | 15-10 | 15-11 | 16-0 | 16-2 |
| 400.00 | 17-4 | 17-5 | 17-6 | 17-8 | 17-9 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 |
| 425.00 | 19-6 | 19-8 | 19-10 | 19-11 | 20-1 | 20-2 | 20-4 | 20-6 | 20-7 | 20-9 |
| 450.00 | 21-11 | 22-1 | 22-3 | 22-4 | 22-6 | 22-8 | 22-10 | 22-11 | 23-1 | 23-3 |
| 475.00 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-5 | 25-7 | 25-9 | 25-11 |
| 500.00 | 27-1 | 27-3 | 27-5 | 27-8 | 27-10 | 28-0 | 28-2 | 28-4 | 28-7 | 28-9 |
| 525.00 | 29-10 | 30-1 | 30-3 | 30-6 | 30-8 | 30-11 | 31-1 | 31-3 | 31-6 | 31-8 |
| 550.00 | 32-9 | 33-0 | 33-3 | 33-6 | 33-8 | 33-11 | 34-2 | 34-4 | 34-7 | 34-9 |
| 575.00 | 35-10 | 36-1 | 36-4 | 36-7 | 36-10 | 37-1 | 37-4 | 37-7 | 37-10 | 38-1 |
| 600.00 | 39-1 | 39-4 | 39-7 | 39-10 | 40-2 | 40-5 | 40-8 | 40-11 | 41-2 | 41-5 |
| 625.00 | 42-5 | 42-8 | 43-0 | 43-3 | 43-7 | 43-10 | 44-2 | 44-5 | 44-9 | 45-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 |
| 275.00 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 |
| 300.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 |
| 325.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 350.00 | 13-3 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 |
| 375.00 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-2 |
| 400.00 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 | 18-2 | 18-4 | 18-5 |
| 425.00 | 19-7 | 19-9 | 19-11 | 20-0 | 20-2 | 20-3 | 20-5 | 20-7 | 20-8 | 20-10 |
| 450.00 | 22-0 | 22-2 | 22-4 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-2 | 23-4 |
| 475.00 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 | 25-8 | 25-10 | 26-0 |
| 500.00 | 27-2 | 27-4 | 27-7 | 27-9 | 27-11 | 28-1 | 28-4 | 28-6 | 28-8 | 28-10 |
| 525.00 | 30-0 | 30-2 | 30-5 | 30-7 | 30-10 | 31-0 | 31-3 | 31-5 | 31-7 | 31-10 |
| 550.00 | 32-11 | 33-2 | 33-4 | 33-7 | 33-10 | 34-1 | 34-3 | 34-6 | 34-9 | 34-11 |
| 575.00 | 36-0 | 36-3 | 36-6 | 36-9 | 37-0 | 37-3 | 37-6 | 37-9 | 37-11 | 38-2 |
| 600.00 | 39-2 | 39-6 | 39-9 | 40-0 | 40-3 | 40-7 | 40-10 | 41-1 | 41-4 | 41-7 |
| 625.00 | 42-7 | 42-10 | 43-2 | 43-5 | 43-9 | 44-0 | 44-4 | 44-7 | 44-11 | 45-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 3.37 | 1000 | 3.37 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 3.14 | 314 | 3.13 | 315 |
| 30 | 0 | 0 | 0 | 0.785 | 3.36 | 293 | 3.35 | 294 |
| 40 | 0 | 0 | 0 | 0.785 | 3.42 | 288 | 3.42 | 288 |
| 50 | 0 | 0 | 0 | 0.785 | 3.48 | 283 | 3.48 | 284 |
| 60 | 0 | 0 | 0 | 0.785 | 3.54 | 278 | 3.54 | 279 |
| 70 | 0 | 0 | 0 | 0.785 | 3.6 | 274 | 3.59 | 275 |
| 80 | 0 | 0 | 0 | 0.785 | 3.64 | 271 | 3.64 | 271 |
| 90 | 0 | 0 | 0 | 0.785 | 3.68 | 268 | 3.68 | 268 |
| 100 | 0 | 0 | 0 | 0.785 | 3.71 | 266 | 3.71 | 266 |
| 110 | 0 | 0 | 0 | 0.785 | 3.75 | 263 | 3.75 | 263 |
| 120 | 0 | 0 | 0 | 0.785 | 3.79 | 261 | 3.79 | 261 |
| 130 | 0 | 0 | 0 | 0.785 | 3.82 | 258 | 3.82 | 258 |
| 167 | 0 | 0 | 0 | 0.785 | 3.95 | 250 | 3.95 | 250 |
| 212 | 0 | 0 | 0 | 0.785 | 4.1 | 241 | 4.1 | 241 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 13.66 | 1000 | 13.66 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 13.44 | 297 | 13.43 | 298 |
| 30 | 0 | 0 | 0 | 0.785 | 13.65 | 293 | 13.64 | 293 |
| 40 | 0 | 0 | 0 | 0.785 | 13.72 | 292 | 13.71 | 292 |
| 50 | 0 | 0 | 0 | 0.785 | 13.78 | 290 | 13.77 | 290 |
| 60 | 0 | 0 | 0 | 0.785 | 13.84 | 289 | 13.83 | 289 |
| 70 | 0 | 0 | 0 | 0.785 | 13.9 | 288 | 13.89 | 288 |
| 80 | 0 | 0 | 0 | 0.785 | 13.95 | 287 | 13.95 | 287 |
| 90 | 0 | 0 | 0 | 0.785 | 13.99 | 286 | 13.99 | 286 |
| 100 | 0 | 0 | 0 | 0.785 | 14.03 | 285 | 14.03 | 285 |
| 110 | 0 | 0 | 0 | 0.785 | 14.07 | 285 | 14.07 | 285 |
| 120 | 0 | 0 | 0 | 0.785 | 14.1 | 284 | 14.1 | 284 |
| 130 | 0 | 0 | 0 | 0.785 | 14.14 | 283 | 14.14 | 283 |
| 167 | 0 | 0 | 0 | 0.785 | 14.29 | 280 | 14.29 | 280 |
| 212 | 0 | 0 | 0 | 0.785 | 14.46 | 277 | 14.46 | 277 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 31.51 | 1000 | 31.51 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 31.29 | 295 | 31.28 | 295 |
| 30 | 0 | 0 | 0 | 0.785 | 31.5 | 293 | 31.49 | 293 |
| 40 | 0 | 0 | 0 | 0.785 | 31.57 | 292 | 31.56 | 292 |
| 50 | 0 | 0 | 0 | 0.785 | 31.63 | 292 | 31.62 | 292 |
| 60 | 0 | 0 | 0 | 0.785 | 31.69 | 291 | 31.68 | 291 |
| 70 | 0 | 0 | 0 | 0.785 | 31.75 | 291 | 31.74 | 291 |
| 80 | 0 | 0 | 0 | 0.785 | 31.8 | 290 | 31.8 | 290 |
| 90 | 0 | 0 | 0 | 0.785 | 31.84 | 290 | 31.84 | 290 |
| 100 | 0 | 0 | 0 | 0.785 | 31.88 | 290 | 31.88 | 290 |
| 110 | 0 | 0 | 0 | 0.785 | 31.92 | 289 | 31.92 | 289 |
| 120 | 0 | 0 | 0 | 0.785 | 31.96 | 289 | 31.96 | 289 |
| 130 | 0 | 0 | 0 | 0.785 | 32 | 289 | 32 | 289 |
| 167 | 0 | 0 | 0 | 0.785 | 32.14 | 287 | 32.14 | 287 |
| 212 | 0 | 0 | 0 | 0.785 | 32.32 | 286 | 32.32 | 286 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 58.22 | 1000 | 58.22 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 58 | 294 | 57.99 | 294 |
| 30 | 0 | 0 | 0 | 0.785 | 58.21 | 293 | 58.2 | 293 |
| 40 | 0 | 0 | 0 | 0.785 | 58.27 | 292 | 58.27 | 292 |
| 50 | 0 | 0 | 0 | 0.785 | 58.33 | 292 | 58.33 | 292 |
| 60 | 0 | 0 | 0 | 0.785 | 58.4 | 292 | 58.39 | 292 |
| 70 | 0 | 0 | 0 | 0.785 | 58.46 | 292 | 58.45 | 292 |
| 80 | 0 | 0 | 0 | 0.785 | 58.51 | 291 | 58.51 | 291 |
| 90 | 0 | 0 | 0 | 0.785 | 58.55 | 291 | 58.55 | 291 |
| 100 | 0 | 0 | 0 | 0.785 | 58.58 | 291 | 58.58 | 291 |
| 110 | 0 | 0 | 0 | 0.785 | 58.62 | 291 | 58.62 | 291 |
| 120 | 0 | 0 | 0 | 0.785 | 58.66 | 291 | 58.66 | 291 |
| 130 | 0 | 0 | 0 | 0.785 | 58.7 | 291 | 58.7 | 291 |
| 167 | 0 | 0 | 0 | 0.785 | 58.85 | 290 | 58.85 | 290 |
| 212 | 0 | 0 | 0 | 0.785 | 59.03 | 289 | 59.03 | 289 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 96.41 | 1000 | 96.41 | 1000* |
| 0 | 0 | 0 | 0 | 0.785 | 96.19 | 293 | 96.19 | 293 |
| 30 | 0 | 0 | 0 | 0.785 | 96.41 | 293 | 96.4 | 293 |
| 40 | 0 | 0 | 0 | 0.785 | 96.47 | 293 | 96.46 | 293 |
| 50 | 0 | 0 | 0 | 0.785 | 96.53 | 292 | 96.52 | 292 |
| 60 | 0 | 0 | 0 | 0.785 | 96.59 | 292 | 96.58 | 292 |
| 70 | 0 | 0 | 0 | 0.785 | 96.65 | 292 | 96.64 | 292 |
| 80 | 0 | 0 | 0 | 0.785 | 96.7 | 292 | 96.7 | 292 |
| 90 | 0 | 0 | 0 | 0.785 | 96.74 | 292 | 96.74 | 292 |
| 100 | 0 | 0 | 0 | 0.785 | 96.78 | 292 | 96.78 | 292 |
| 110 | 0 | 0 | 0 | 0.785 | 96.82 | 292 | 96.82 | 292 |
| 120 | 0 | 0 | 0 | 0.785 | 96.86 | 292 | 96.86 | 292 |
| 130 | 0 | 0 | 0 | 0.785 | 96.9 | 292 | 96.9 | 292 |
| 167 | 0 | 0 | 0 | 0.785 | 97.04 | 291 | 97.04 | 291 |
| 212 | 0 | 0 | 0 | 0.785 | 97.22 | 291 | 97.22 | 291 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 |
| 100.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 |
| 125.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 |
| 150.00 | 7-5 | 7-7 | 7-8 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-5 |
| 175.00 | 10-1 | 10-4 | 10-6 | 10-8 | 10-10 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 |
| 200.00 | 13-2 | 13-6 | 13-9 | 14-0 | 14-3 | 14-5 | 14-8 | 14-10 | 14-11 | 15-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 |
| 100.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 |
| 125.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 |
| 150.00 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-5 |
| 175.00 | 10-1 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 |
| 200.00 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 | 14-8 | 14-10 | 14-11 | 15-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

OH812.324

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 |
| 125.00 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 |
| 150.00 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 |
| 175.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 |
| 200.00 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 |
| 225.00 | 17-2 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 |
| 250.00 | 21-3 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 |
| 125.00 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 |
| 150.00 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 |
| 175.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 |
| 200.00 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 |
| 225.00 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 |
| 250.00 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-10 | 21-10 | 21-11 | 22-0 | 22-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS



OH812.325

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 |
| 175.00 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 |
| 200.00 | 13-10 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 |
| 225.00 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-10 |
| 250.00 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 22-0 | 22-0 | 22-0 | 22-1 |
| 275.00 | 26-4 | 26-5 | 26-6 | 26-6 | 26-7 | 26-7 | 26-8 | 26-8 | 26-9 | 26-9 |
| 300.00 | 31-5 | 31-6 | 31-7 | 31-7 | 31-8 | 31-9 | 31-10 | 31-10 | 31-11 | 31-11 |
| 325.00 | 37-0 | 37-1 | 37-2 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 | 37-6 | 37-7 |
| 350.00 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 43-7 | 43-7 | 43-8 |
| 375.00 | 49-6 | 49-7 | 49-9 | 49-10 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 |
| 175.00 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 |
| 200.00 | 13-10 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 |
| 225.00 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-10 |
| 250.00 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 22-0 | 22-0 | 22-0 | 22-1 |
| 275.00 | 26-4 | 26-5 | 26-6 | 26-6 | 26-7 | 26-7 | 26-8 | 26-8 | 26-9 | 26-9 |
| 300.00 | 31-5 | 31-6 | 31-7 | 31-8 | 31-8 | 31-9 | 31-10 | 31-10 | 31-11 | 31-11 |
| 325.00 | 37-0 | 37-1 | 37-2 | 37-3 | 37-3 | 37-4 | 37-5 | 37-6 | 37-6 | 37-7 |
| 350.00 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 43-7 | 43-7 | 43-8 |
| 375.00 | 49-6 | 49-7 | 49-9 | 49-10 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-4 | 14-4 | 14-4 | 14-4 |
| 225.00 | 18-1 | 18-1 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-3 |
| 250.00 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 |
| 275.00 | 27-1 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 |
| 300.00 | 32-4 | 32-4 | 32-5 | 32-5 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 |
| 325.00 | 38-0 | 38-1 | 38-1 | 38-2 | 38-2 | 38-3 | 38-3 | 38-4 | 38-4 | 38-4 |
| 350.00 | 44-3 | 44-3 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 |
| 375.00 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-2 | 51-3 | 51-3 | 51-4 | 51-4 |
| 400.00 | 58-2 | 58-2 | 58-3 | 58-4 | 58-5 | 58-5 | 58-6 | 58-7 | 58-7 | 58-7 |
| 425.00 | 65-10 | 65-11 | 66-0 | 66-1 | 66-2 | 66-3 | 66-3 | 66-4 | 66-4 | 66-5 |
| 450.00 | 74-1 | 74-2 | 74-3 | 74-4 | 74-5 | 74-6 | 74-7 | 74-8 | 74-8 | 74-9 |
| 475.00 | 82-10 | 83-0 | 83-1 | 83-2 | 83-3 | 83-4 | 83-5 | 83-6 | 83-6 | 83-7 |
| 500.00 | 92-2 | 92-4 | 92-5 | 92-6 | 92-7 | 92-9 | 92-10 | 92-10 | 92-11 | 93-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-4 | 14-4 | 14-4 | 14-4 |
| 225.00 | 18-1 | 18-1 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-3 |
| 250.00 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 |
| 275.00 | 27-1 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 |
| 300.00 | 32-4 | 32-4 | 32-5 | 32-5 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 |
| 325.00 | 38-0 | 38-1 | 38-1 | 38-2 | 38-2 | 38-3 | 38-3 | 38-4 | 38-4 | 38-4 |
| 350.00 | 44-3 | 44-3 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 |
| 375.00 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-3 | 51-3 | 51-3 | 51-4 | 51-4 |
| 400.00 | 58-2 | 58-3 | 58-3 | 58-4 | 58-5 | 58-5 | 58-6 | 58-7 | 58-7 | 58-7 |
| 425.00 | 65-10 | 65-11 | 66-0 | 66-1 | 66-2 | 66-3 | 66-3 | 66-4 | 66-4 | 66-5 |
| 450.00 | 74-1 | 74-2 | 74-3 | 74-4 | 74-5 | 74-6 | 74-7 | 74-8 | 74-8 | 74-9 |
| 475.00 | 82-11 | 83-0 | 83-1 | 83-2 | 83-3 | 83-4 | 83-5 | 83-6 | 83-6 | 83-7 |
| 500.00 | 92-2 | 92-4 | 92-5 | 92-6 | 92-8 | 92-9 | 92-10 | 92-10 | 92-11 | 93-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 23-3 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-5 | 23-5 | 23-5 |
| 275.00 | 28-3 | 28-3 | 28-3 | 28-4 | 28-4 | 28-4 | 28-4 | 28-4 | 28-4 | 28-4 |
| 300.00 | 33-8 | 33-9 | 33-9 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 |
| 325.00 | 39-8 | 39-8 | 39-9 | 39-9 | 39-9 | 39-9 | 39-10 | 39-10 | 39-10 | 39-10 |
| 350.00 | 46-2 | 46-2 | 46-2 | 46-3 | 46-3 | 46-3 | 46-4 | 46-4 | 46-4 | 46-4 |
| 375.00 | 53-2 | 53-2 | 53-2 | 53-3 | 53-3 | 53-4 | 53-4 | 53-4 | 53-4 | 53-5 |
| 400.00 | 60-8 | 60-8 | 60-9 | 60-9 | 60-10 | 60-10 | 60-11 | 60-11 | 60-11 | 61-0 |
| 425.00 | 68-9 | 68-9 | 68-10 | 68-10 | 68-11 | 68-11 | 69-0 | 69-0 | 69-1 | 69-1 |
| 450.00 | 77-4 | 77-5 | 77-6 | 77-6 | 77-7 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 |
| 475.00 | 86-7 | 86-7 | 86-8 | 86-9 | 86-9 | 86-10 | 86-11 | 86-11 | 86-11 | 87-0 |
| 500.00 | 96-4 | 96-5 | 96-6 | 96-6 | 96-7 | 96-8 | 96-8 | 96-9 | 96-9 | 96-10 |
| 525.00 | 106-8 | 106-9 | 106-10 | 106-11 | 107-0 | 107-1 | 107-1 | 107-2 | 107-2 | 107-3 |
| 550.00 | 117-8 | 117-9 | 117-10 | 117-11 | 118-0 | 118-1 | 118-1 | 118-2 | 118-3 | 118-3 |
| 575.00 | 129-3 | 129-4 | 129-5 | 129-6 | 129-7 | 129-8 | 129-9 | 129-10 | 129-10 | 129-11 |
| 600.00 | 141-6 | 141-7 | 141-8 | 141-9 | 141-10 | 141-11 | 142-0 | 142-1 | 142-2 | 142-3 |
| 625.00 | 154-4 | 154-6 | 154-7 | 154-8 | 154-9 | 154-10 | 155-0 | 155-0 | 155-1 | 155-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 23-3 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-5 | 23-5 | 23-5 |
| 275.00 | 28-3 | 28-3 | 28-3 | 28-4 | 28-4 | 28-4 | 28-4 | 28-4 | 28-4 | 28-4 |
| 300.00 | 33-8 | 33-9 | 33-9 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 |
| 325.00 | 39-8 | 39-8 | 39-9 | 39-9 | 39-9 | 39-9 | 39-10 | 39-10 | 39-10 | 39-10 |
| 350.00 | 46-2 | 46-2 | 46-2 | 46-3 | 46-3 | 46-3 | 46-4 | 46-4 | 46-4 | 46-4 |
| 375.00 | 53-2 | 53-2 | 53-2 | 53-3 | 53-3 | 53-4 | 53-4 | 53-4 | 53-4 | 53-5 |
| 400.00 | 60-8 | 60-9 | 60-9 | 60-9 | 60-10 | 60-10 | 60-11 | 60-11 | 60-11 | 61-0 |
| 425.00 | 68-9 | 68-9 | 68-10 | 68-11 | 68-11 | 69-0 | 69-0 | 69-0 | 69-1 | 69-1 |
| 450.00 | 77-4 | 77-5 | 77-6 | 77-6 | 77-7 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 |
| 475.00 | 86-7 | 86-8 | 86-8 | 86-9 | 86-9 | 86-10 | 86-11 | 86-11 | 86-11 | 87-0 |
| 500.00 | 96-4 | 96-5 | 96-6 | 96-6 | 96-7 | 96-8 | 96-8 | 96-9 | 96-9 | 96-10 |
| 525.00 | 106-8 | 106-9 | 106-10 | 106-11 | 107-0 | 107-1 | 107-1 | 107-2 | 107-2 | 107-3 |
| 550.00 | 117-8 | 117-9 | 117-10 | 117-11 | 118-0 | 118-1 | 118-1 | 118-2 | 118-3 | 118-3 |
| 575.00 | 129-3 | 129-4 | 129-5 | 129-6 | 129-7 | 129-8 | 129-9 | 129-10 | 129-10 | 129-11 |
| 600.00 | 141-6 | 141-7 | 141-8 | 141-9 | 141-10 | 142-0 | 142-0 | 142-1 | 142-2 | 142-3 |
| 625.00 | 154-4 | 154-6 | 154-7 | 154-8 | 154-9 | 154-11 | 155-0 | 155-0 | 155-1 | 155-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 2.24 | 1500 | 2.24 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 1.85 | 530 | 1.83 | 536 |
| 30 | 0 | 0 | 0 | 0.785 | 2.18 | 450 | 2.17 | 453 |
| 40 | 0 | 0 | 0 | 0.785 | 2.27 | 432 | 2.26 | 435 |
| 50 | 0 | 0 | 0 | 0.785 | 2.36 | 416 | 2.35 | 419 |
| 60 | 0 | 0 | 0 | 0.785 | 2.45 | 402 | 2.43 | 405 |
| 70 | 0 | 0 | 0 | 0.785 | 2.53 | 389 | 2.51 | 392 |
| 80 | 0 | 0 | 0 | 0.785 | 2.61 | 377 | 2.59 | 380 |
| 90 | 0 | 0 | 0 | 0.785 | 2.66 | 370 | 2.66 | 370 |
| 100 | 0 | 0 | 0 | 0.785 | 2.71 | 364 | 2.71 | 364 |
| 110 | 0 | 0 | 0 | 0.785 | 2.75 | 358 | 2.75 | 358 |
| 120 | 0 | 0 | 0 | 0.785 | 2.8 | 352 | 2.8 | 352 |
| 130 | 0 | 0 | 0 | 0.785 | 2.84 | 346 | 2.84 | 346 |
| 167 | 0 | 0 | 0 | 0.785 | 3.01 | 327 | 3.01 | 327 |
| 212 | 0 | 0 | 0 | 0.785 | 3.2 | 308 | 3.2 | 308 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 9.01 | 1500 | 9.01 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 8.64 | 458 | 8.62 | 459 |
| 30 | 0 | 0 | 0 | 0.785 | 8.96 | 442 | 8.94 | 442 |
| 40 | 0 | 0 | 0 | 0.785 | 9.05 | 437 | 9.03 | 438 |
| 50 | 0 | 0 | 0 | 0.785 | 9.14 | 433 | 9.12 | 434 |
| 60 | 0 | 0 | 0 | 0.785 | 9.23 | 429 | 9.21 | 430 |
| 70 | 0 | 0 | 0 | 0.785 | 9.32 | 425 | 9.3 | 426 |
| 80 | 0 | 0 | 0 | 0.785 | 9.41 | 421 | 9.39 | 422 |
| 90 | 0 | 0 | 0 | 0.785 | 9.48 | 418 | 9.48 | 418 |
| 100 | 0 | 0 | 0 | 0.785 | 9.53 | 415 | 9.53 | 415 |
| 110 | 0 | 0 | 0 | 0.785 | 9.59 | 413 | 9.59 | 413 |
| 120 | 0 | 0 | 0 | 0.785 | 9.65 | 411 | 9.65 | 411 |
| 130 | 0 | 0 | 0 | 0.785 | 9.7 | 408 | 9.7 | 408 |
| 167 | 0 | 0 | 0 | 0.785 | 9.9 | 400 | 9.9 | 400 |
| 212 | 0 | 0 | 0 | 0.785 | 10.14 | 391 | 10.14 | 391 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 20.49 | 1500 | 20.49 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 20.12 | 447 | 20.1 | 447 |
| 30 | 0 | 0 | 0 | 0.785 | 20.44 | 440 | 20.42 | 441 |
| 40 | 0 | 0 | 0 | 0.785 | 20.53 | 438 | 20.51 | 439 |
| 50 | 0 | 0 | 0 | 0.785 | 20.62 | 436 | 20.6 | 437 |
| 60 | 0 | 0 | 0 | 0.785 | 20.71 | 435 | 20.69 | 435 |
| 70 | 0 | 0 | 0 | 0.785 | 20.8 | 433 | 20.78 | 433 |
| 80 | 0 | 0 | 0 | 0.785 | 20.89 | 431 | 20.87 | 431 |
| 90 | 0 | 0 | 0 | 0.785 | 20.97 | 429 | 20.96 | 430 |
| 100 | 0 | 0 | 0 | 0.785 | 21.03 | 428 | 21.03 | 428 |
| 110 | 0 | 0 | 0 | 0.785 | 21.09 | 427 | 21.09 | 427 |
| 120 | 0 | 0 | 0 | 0.785 | 21.14 | 426 | 21.14 | 426 |
| 130 | 0 | 0 | 0 | 0.785 | 21.2 | 425 | 21.2 | 425 |
| 167 | 0 | 0 | 0 | 0.785 | 21.41 | 421 | 21.41 | 421 |
| 212 | 0 | 0 | 0 | 0.785 | 21.67 | 416 | 21.67 | 416 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 36.99 | 1500 | 36.99 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 36.62 | 443 | 36.6 | 443 |
| 30 | 0 | 0 | 0 | 0.785 | 36.93 | 440 | 36.92 | 440 |
| 40 | 0 | 0 | 0 | 0.785 | 37.02 | 439 | 37.01 | 439 |
| 50 | 0 | 0 | 0 | 0.785 | 37.12 | 438 | 37.1 | 438 |
| 60 | 0 | 0 | 0 | 0.785 | 37.21 | 437 | 37.19 | 437 |
| 70 | 0 | 0 | 0 | 0.785 | 37.3 | 436 | 37.28 | 436 |
| 80 | 0 | 0 | 0 | 0.785 | 37.39 | 435 | 37.37 | 435 |
| 90 | 0 | 0 | 0 | 0.785 | 37.47 | 434 | 37.46 | 434 |
| 100 | 0 | 0 | 0 | 0.785 | 37.53 | 433 | 37.53 | 433 |
| 110 | 0 | 0 | 0 | 0.785 | 37.59 | 432 | 37.59 | 432 |
| 120 | 0 | 0 | 0 | 0.785 | 37.65 | 432 | 37.65 | 432 |
| 130 | 0 | 0 | 0 | 0.785 | 37.7 | 431 | 37.7 | 431 |
| 167 | 0 | 0 | 0 | 0.785 | 37.92 | 429 | 37.92 | 429 |
| 212 | 0 | 0 | 0 | 0.785 | 38.18 | 426 | 38.18 | 426 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 59 | 1500 | 59 | 1500* |
| 0 | 0 | 0 | 0 | 0.785 | 58.63 | 442 | 58.61 | 442 |
| 30 | 0 | 0 | 0 | 0.785 | 58.95 | 439 | 58.93 | 440 |
| 40 | 0 | 0 | 0 | 0.785 | 59.04 | 439 | 59.02 | 439 |
| 50 | 0 | 0 | 0 | 0.785 | 59.13 | 438 | 59.11 | 438 |
| 60 | 0 | 0 | 0 | 0.785 | 59.22 | 438 | 59.21 | 438 |
| 70 | 0 | 0 | 0 | 0.785 | 59.31 | 437 | 59.3 | 437 |
| 80 | 0 | 0 | 0 | 0.785 | 59.41 | 436 | 59.39 | 436 |
| 90 | 0 | 0 | 0 | 0.785 | 59.48 | 436 | 59.48 | 436 |
| 100 | 0 | 0 | 0 | 0.785 | 59.54 | 435 | 59.54 | 435 |
| 110 | 0 | 0 | 0 | 0.785 | 59.6 | 435 | 59.6 | 435 |
| 120 | 0 | 0 | 0 | 0.785 | 59.66 | 435 | 59.66 | 435 |
| 130 | 0 | 0 | 0 | 0.785 | 59.72 | 434 | 59.72 | 434 |
| 167 | 0 | 0 | 0 | 0.785 | 59.94 | 433 | 59.94 | 433 |
| 212 | 0 | 0 | 0 | 0.785 | 60.21 | 431 | 60.21 | 431 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 125.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 |
| 150.00 | 4-8 | 4-11 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-2 |
| 175.00 | 6-4 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 | 8-5 |
| 200.00 | 8-3 | 8-8 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-8 | 10-10 | 11-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 125.00 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 |
| 150.00 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-2 |
| 175.00 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-4 | 8-5 |
| 200.00 | 8-4 | 8-9 | 9-1 | 9-6 | 9-10 | 10-2 | 10-5 | 10-8 | 10-10 | 11-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.332

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 |
| 125.00 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 |
| 150.00 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 |
| 175.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 |
| 200.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 |
| 225.00 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 | 12-2 |
| 250.00 | 13-10 | 14-0 | 14-2 | 14-3 | 14-5 | 14-7 | 14-8 | 14-10 | 14-11 | 15-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 |
| 125.00 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 |
| 150.00 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 |
| 175.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 |
| 200.00 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 |
| 225.00 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 250.00 | 13-10 | 14-0 | 14-2 | 14-4 | 14-5 | 14-7 | 14-9 | 14-10 | 14-11 | 15-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



OH812.333

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 |
| 175.00 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-1 | 7-1 | 7-2 |
| 200.00 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 |
| 225.00 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 |
| 250.00 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 |
| 275.00 | 17-1 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-8 |
| 300.00 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 21-0 | 21-0 | 21-1 |
| 325.00 | 23-10 | 24-0 | 24-1 | 24-2 | 24-4 | 24-5 | 24-6 | 24-8 | 24-8 | 24-9 |
| 350.00 | 27-9 | 27-10 | 28-0 | 28-1 | 28-3 | 28-4 | 28-6 | 28-7 | 28-8 | 28-9 |
| 375.00 | 31-10 | 32-0 | 32-2 | 32-4 | 32-5 | 32-7 | 32-9 | 32-10 | 33-0 | 33-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 |
| 175.00 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-1 | 7-1 | 7-2 |
| 200.00 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 | 9-4 | 9-4 |
| 225.00 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 |
| 250.00 | 14-1 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 |
| 275.00 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 |
| 300.00 | 20-4 | 20-5 | 20-6 | 20-7 | 20-9 | 20-10 | 20-11 | 21-0 | 21-0 | 21-1 |
| 325.00 | 23-11 | 24-0 | 24-1 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 | 24-8 | 24-9 |
| 350.00 | 27-9 | 27-11 | 28-0 | 28-2 | 28-3 | 28-5 | 28-6 | 28-7 | 28-8 | 28-9 |
| 375.00 | 31-11 | 32-0 | 32-2 | 32-4 | 32-6 | 32-7 | 32-9 | 32-11 | 33-0 | 33-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.334

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-2 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 | 9-3 | 9-4 | 9-4 |
| 225.00 | 11-7 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 |
| 250.00 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 |
| 275.00 | 17-4 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 |
| 300.00 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 | 21-0 | 21-0 | 21-0 |
| 325.00 | 24-3 | 24-3 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-8 | 24-8 | 24-9 |
| 350.00 | 28-1 | 28-2 | 28-3 | 28-4 | 28-5 | 28-6 | 28-6 | 28-7 | 28-8 | 28-8 |
| 375.00 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 32-11 | 33-0 |
| 400.00 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-6 | 37-6 | 37-7 |
| 425.00 | 41-7 | 41-9 | 41-10 | 41-11 | 42-1 | 42-2 | 42-3 | 42-4 | 42-5 | 42-6 |
| 450.00 | 46-9 | 46-10 | 47-0 | 47-1 | 47-3 | 47-4 | 47-5 | 47-7 | 47-8 | 47-9 |
| 475.00 | 52-2 | 52-4 | 52-5 | 52-7 | 52-8 | 52-10 | 52-11 | 53-1 | 53-2 | 53-3 |
| 500.00 | 57-10 | 58-1 | 58-2 | 58-4 | 58-6 | 58-7 | 58-9 | 58-11 | 59-0 | 59-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-2 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 | 9-3 | 9-4 | 9-4 |
| 225.00 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-9 | 11-10 |
| 250.00 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 |
| 275.00 | 17-4 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 |
| 300.00 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 |
| 325.00 | 24-3 | 24-3 | 24-4 | 24-5 | 24-6 | 24-6 | 24-7 | 24-8 | 24-8 | 24-9 |
| 350.00 | 28-2 | 28-2 | 28-3 | 28-4 | 28-5 | 28-6 | 28-7 | 28-7 | 28-8 | 28-8 |
| 375.00 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 32-11 | 33-0 |
| 400.00 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-4 | 37-5 | 37-6 | 37-6 | 37-7 |
| 425.00 | 41-8 | 41-9 | 41-10 | 42-0 | 42-1 | 42-2 | 42-3 | 42-4 | 42-5 | 42-6 |
| 450.00 | 46-9 | 46-11 | 47-0 | 47-1 | 47-3 | 47-4 | 47-6 | 47-7 | 47-8 | 47-9 |
| 475.00 | 52-2 | 52-4 | 52-5 | 52-7 | 52-9 | 52-10 | 53-0 | 53-1 | 53-2 | 53-3 |
| 500.00 | 57-11 | 58-1 | 58-3 | 58-4 | 58-6 | 58-8 | 58-10 | 58-11 | 59-0 | 59-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS



OH812.335

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-8 |
| 275.00 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-9 | 17-10 |
| 300.00 | 20-11 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-2 | 21-2 | 21-2 | 21-3 |
| 325.00 | 24-7 | 24-8 | 24-8 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 |
| 350.00 | 28-7 | 28-7 | 28-8 | 28-8 | 28-9 | 28-9 | 28-10 | 28-11 | 28-11 | 28-11 |
| 375.00 | 32-10 | 32-11 | 32-11 | 33-0 | 33-1 | 33-1 | 33-2 | 33-2 | 33-3 | 33-3 |
| 400.00 | 37-5 | 37-6 | 37-6 | 37-7 | 37-8 | 37-8 | 37-9 | 37-10 | 37-10 | 37-11 |
| 425.00 | 42-4 | 42-4 | 42-5 | 42-6 | 42-7 | 42-8 | 42-8 | 42-9 | 42-10 | 42-10 |
| 450.00 | 47-6 | 47-7 | 47-8 | 47-9 | 47-10 | 47-10 | 47-11 | 48-0 | 48-1 | 48-1 |
| 475.00 | 53-0 | 53-1 | 53-2 | 53-3 | 53-4 | 53-5 | 53-6 | 53-7 | 53-8 | 53-8 |
| 500.00 | 58-10 | 58-11 | 59-0 | 59-1 | 59-2 | 59-4 | 59-5 | 59-6 | 59-7 | 59-7 |
| 525.00 | 65-0 | 65-1 | 65-2 | 65-4 | 65-5 | 65-6 | 65-7 | 65-8 | 65-9 | 65-10 |
| 550.00 | 71-5 | 71-7 | 71-8 | 71-10 | 71-11 | 72-0 | 72-2 | 72-3 | 72-4 | 72-5 |
| 575.00 | 78-3 | 78-5 | 78-6 | 78-8 | 78-9 | 78-11 | 79-0 | 79-1 | 79-3 | 79-3 |
| 600.00 | 85-4 | 85-6 | 85-8 | 85-10 | 85-11 | 86-1 | 86-2 | 86-4 | 86-5 | 86-6 |
| 625.00 | 92-10 | 93-0 | 93-2 | 93-4 | 93-5 | 93-7 | 93-9 | 93-11 | 94-0 | 94-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-8 | 14-8 |
| 275.00 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-9 | 17-10 |
| 300.00 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-2 | 21-2 | 21-2 | 21-3 |
| 325.00 | 24-7 | 24-8 | 24-8 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 |
| 350.00 | 28-7 | 28-7 | 28-8 | 28-9 | 28-9 | 28-10 | 28-10 | 28-11 | 28-11 | 28-11 |
| 375.00 | 32-10 | 32-11 | 32-11 | 33-0 | 33-1 | 33-1 | 33-2 | 33-2 | 33-3 | 33-3 |
| 400.00 | 37-5 | 37-6 | 37-7 | 37-7 | 37-8 | 37-9 | 37-9 | 37-10 | 37-10 | 37-11 |
| 425.00 | 42-4 | 42-5 | 42-5 | 42-6 | 42-7 | 42-8 | 42-8 | 42-9 | 42-10 | 42-10 |
| 450.00 | 47-6 | 47-7 | 47-8 | 47-9 | 47-10 | 47-11 | 47-11 | 48-0 | 48-1 | 48-1 |
| 475.00 | 53-0 | 53-1 | 53-2 | 53-3 | 53-4 | 53-5 | 53-6 | 53-7 | 53-8 | 53-8 |
| 500.00 | 58-10 | 58-11 | 59-0 | 59-2 | 59-3 | 59-4 | 59-5 | 59-6 | 59-7 | 59-7 |
| 525.00 | 65-0 | 65-1 | 65-3 | 65-4 | 65-5 | 65-6 | 65-7 | 65-8 | 65-9 | 65-10 |
| 550.00 | 71-6 | 71-7 | 71-8 | 71-10 | 71-11 | 72-1 | 72-2 | 72-3 | 72-4 | 72-5 |
| 575.00 | 78-3 | 78-5 | 78-6 | 78-8 | 78-9 | 78-11 | 79-0 | 79-2 | 79-3 | 79-3 |
| 600.00 | 85-5 | 85-7 | 85-8 | 85-10 | 85-11 | 86-1 | 86-3 | 86-4 | 86-5 | 86-6 |
| 625.00 | 92-10 | 93-0 | 93-2 | 93-4 | 93-6 | 93-7 | 93-9 | 93-11 | 94-0 | 94-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 1.68 | 2000 | 1.68 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 1.12 | 876 | 1.09 | 902 |
| 30 | 0 | 0 | 0 | 0.785 | 1.54 | 637 | 1.51 | 650 |
| 40 | 0 | 0 | 0 | 0.785 | 1.66 | 591 | 1.63 | 602 |
| 50 | 0 | 0 | 0 | 0.785 | 1.77 | 554 | 1.75 | 563 |
| 60 | 0 | 0 | 0 | 0.785 | 1.88 | 522 | 1.85 | 530 |
| 70 | 0 | 0 | 0 | 0.785 | 1.99 | 495 | 1.96 | 502 |
| 80 | 0 | 0 | 0 | 0.785 | 2.08 | 472 | 2.06 | 478 |
| 90 | 0 | 0 | 0 | 0.785 | 2.16 | 455 | 2.15 | 457 |
| 100 | 0 | 0 | 0 | 0.785 | 2.22 | 443 | 2.22 | 443 |
| 110 | 0 | 0 | 0 | 0.785 | 2.27 | 432 | 2.27 | 432 |
| 120 | 0 | 0 | 0 | 0.785 | 2.33 | 422 | 2.33 | 422 |
| 130 | 0 | 0 | 0 | 0.785 | 2.38 | 413 | 2.38 | 413 |
| 167 | 0 | 0 | 0 | 0.785 | 2.57 | 382 | 2.57 | 383 |
| 212 | 0 | 0 | 0 | 0.785 | 2.79 | 353 | 2.79 | 353 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 6.74 | 2000 | 6.74 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 6.18 | 637 | 6.14 | 641 |
| 30 | 0 | 0 | 0 | 0.785 | 6.6 | 598 | 6.57 | 600 |
| 40 | 0 | 0 | 0 | 0.785 | 6.72 | 587 | 6.69 | 590 |
| 50 | 0 | 0 | 0 | 0.785 | 6.84 | 577 | 6.81 | 579 |
| 60 | 0 | 0 | 0 | 0.785 | 6.96 | 567 | 6.93 | 569 |
| 70 | 0 | 0 | 0 | 0.785 | 7.07 | 558 | 7.04 | 560 |
| 80 | 0 | 0 | 0 | 0.785 | 7.19 | 549 | 7.16 | 551 |
| 90 | 0 | 0 | 0 | 0.785 | 7.3 | 540 | 7.27 | 543 |
| 100 | 0 | 0 | 0 | 0.785 | 7.39 | 534 | 7.38 | 535 |
| 110 | 0 | 0 | 0 | 0.785 | 7.46 | 529 | 7.46 | 529 |
| 120 | 0 | 0 | 0 | 0.785 | 7.53 | 524 | 7.53 | 524 |
| 130 | 0 | 0 | 0 | 0.785 | 7.6 | 520 | 7.6 | 520 |
| 167 | 0 | 0 | 0 | 0.785 | 7.85 | 503 | 7.85 | 503 |
| 212 | 0 | 0 | 0 | 0.785 | 8.14 | 485 | 8.14 | 485 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 15.24 | 2000 | 15.24 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 14.7 | 607 | 14.66 | 608 |
| 30 | 0 | 0 | 0 | 0.785 | 15.1 | 591 | 15.07 | 592 |
| 40 | 0 | 0 | 0 | 0.785 | 15.22 | 586 | 15.19 | 587 |
| 50 | 0 | 0 | 0 | 0.785 | 15.35 | 581 | 15.32 | 583 |
| 60 | 0 | 0 | 0 | 0.785 | 15.47 | 577 | 15.44 | 578 |
| 70 | 0 | 0 | 0 | 0.785 | 15.59 | 573 | 15.56 | 574 |
| 80 | 0 | 0 | 0 | 0.785 | 15.71 | 568 | 15.67 | 570 |
| 90 | 0 | 0 | 0 | 0.785 | 15.83 | 564 | 15.79 | 565 |
| 100 | 0 | 0 | 0 | 0.785 | 15.93 | 561 | 15.91 | 561 |
| 110 | 0 | 0 | 0 | 0.785 | 16 | 558 | 16 | 558 |
| 120 | 0 | 0 | 0 | 0.785 | 16.08 | 556 | 16.08 | 556 |
| 130 | 0 | 0 | 0 | 0.785 | 16.15 | 553 | 16.15 | 553 |
| 167 | 0 | 0 | 0 | 0.785 | 16.42 | 544 | 16.42 | 544 |
| 212 | 0 | 0 | 0 | 0.785 | 16.75 | 534 | 16.75 | 534 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 27.32 | 2000 | 27.32 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 26.78 | 597 | 26.74 | 598 |
| 30 | 0 | 0 | 0 | 0.785 | 27.18 | 588 | 27.15 | 589 |
| 40 | 0 | 0 | 0 | 0.785 | 27.3 | 586 | 27.27 | 586 |
| 50 | 0 | 0 | 0 | 0.785 | 27.43 | 583 | 27.4 | 584 |
| 60 | 0 | 0 | 0 | 0.785 | 27.55 | 581 | 27.52 | 581 |
| 70 | 0 | 0 | 0 | 0.785 | 27.67 | 578 | 27.64 | 579 |
| 80 | 0 | 0 | 0 | 0.785 | 27.79 | 576 | 27.76 | 577 |
| 90 | 0 | 0 | 0 | 0.785 | 27.91 | 573 | 27.88 | 574 |
| 100 | 0 | 0 | 0 | 0.785 | 28.02 | 571 | 28 | 572 |
| 110 | 0 | 0 | 0 | 0.785 | 28.09 | 570 | 28.09 | 570 |
| 120 | 0 | 0 | 0 | 0.785 | 28.17 | 568 | 28.17 | 568 |
| 130 | 0 | 0 | 0 | 0.785 | 28.25 | 567 | 28.25 | 567 |
| 167 | 0 | 0 | 0 | 0.785 | 28.53 | 561 | 28.53 | 561 |
| 212 | 0 | 0 | 0 | 0.785 | 28.87 | 555 | 28.87 | 555 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 43.16 | 2000 | 43.16 | 2000* |
| 0 | 0 | 0 | 0 | 0.785 | 42.62 | 592 | 42.58 | 593 |
| 30 | 0 | 0 | 0 | 0.785 | 43.02 | 587 | 42.99 | 588 |
| 40 | 0 | 0 | 0 | 0.785 | 43.14 | 586 | 43.11 | 586 |
| 50 | 0 | 0 | 0 | 0.785 | 43.26 | 584 | 43.23 | 584 |
| 60 | 0 | 0 | 0 | 0.785 | 43.39 | 582 | 43.35 | 583 |
| 70 | 0 | 0 | 0 | 0.785 | 43.51 | 581 | 43.48 | 581 |
| 80 | 0 | 0 | 0 | 0.785 | 43.63 | 579 | 43.6 | 580 |
| 90 | 0 | 0 | 0 | 0.785 | 43.75 | 578 | 43.72 | 578 |
| 100 | 0 | 0 | 0 | 0.785 | 43.86 | 577 | 43.84 | 577 |
| 110 | 0 | 0 | 0 | 0.785 | 43.94 | 576 | 43.94 | 576 |
| 120 | 0 | 0 | 0 | 0.785 | 44.02 | 575 | 44.02 | 575 |
| 130 | 0 | 0 | 0 | 0.785 | 44.1 | 574 | 44.1 | 574 |
| 167 | 0 | 0 | 0 | 0.785 | 44.38 | 570 | 44.38 | 570 |
| 212 | 0 | 0 | 0 | 0.785 | 44.73 | 566 | 44.73 | 566 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-3 |
| 100.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-3 |
| 125.00 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 |
| 150.00 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-0 | 5-1 |
| 175.00 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-7 | 6-10 | 7-0 |
| 200.00 | 5-6 | 6-1 | 6-6 | 7-0 | 7-5 | 7-10 | 8-3 | 8-7 | 8-11 | 9-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-3 |
| 100.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 |
| 125.00 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-7 |
| 150.00 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 |
| 175.00 | 4-4 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-8 | 6-10 | 7-0 |
| 200.00 | 5-8 | 6-2 | 6-8 | 7-1 | 7-7 | 7-11 | 8-4 | 8-8 | 8-11 | 9-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 |
| 150.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 |
| 175.00 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 |
| 200.00 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 | 7-5 |
| 225.00 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-5 |
| 250.00 | 10-1 | 10-3 | 10-5 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-7 | 11-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 |
| 150.00 | 3-8 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 |
| 175.00 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 |
| 200.00 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-5 |
| 225.00 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 | 9-4 | 9-5 |
| 250.00 | 10-1 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 |
| 175.00 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 |
| 200.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 |
| 225.00 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 |
| 250.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 |
| 275.00 | 12-7 | 12-8 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 |
| 300.00 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 |
| 325.00 | 17-7 | 17-8 | 17-10 | 18-0 | 18-2 | 18-3 | 18-5 | 18-7 | 18-8 | 18-9 |
| 350.00 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 |
| 375.00 | 23-5 | 23-7 | 23-9 | 24-0 | 24-2 | 24-4 | 24-6 | 24-9 | 24-11 | 25-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 |
| 175.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 |
| 200.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 |
| 225.00 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 |
| 250.00 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 |
| 275.00 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 |
| 300.00 | 15-0 | 15-1 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 |
| 325.00 | 17-7 | 17-9 | 17-11 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 | 18-9 |
| 350.00 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-8 | 21-10 |
| 375.00 | 23-5 | 23-8 | 23-10 | 24-0 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 |
| 225.00 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 |
| 250.00 | 10-6 | 10-7 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 |
| 275.00 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 |
| 300.00 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-8 | 15-9 |
| 325.00 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 |
| 350.00 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 |
| 375.00 | 23-9 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-5 | 24-6 | 24-7 | 24-8 |
| 400.00 | 27-0 | 27-2 | 27-3 | 27-5 | 27-6 | 27-8 | 27-9 | 27-11 | 28-0 | 28-1 |
| 425.00 | 30-6 | 30-8 | 30-10 | 30-11 | 31-1 | 31-3 | 31-4 | 31-6 | 31-8 | 31-9 |
| 450.00 | 34-3 | 34-5 | 34-7 | 34-9 | 34-11 | 35-0 | 35-2 | 35-4 | 35-6 | 35-7 |
| 475.00 | 38-2 | 38-5 | 38-7 | 38-9 | 38-11 | 39-1 | 39-3 | 39-5 | 39-7 | 39-9 |
| 500.00 | 42-4 | 42-7 | 42-9 | 42-11 | 43-2 | 43-4 | 43-6 | 43-9 | 43-11 | 44-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 |
| 225.00 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 |
| 250.00 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 |
| 275.00 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 |
| 300.00 | 15-2 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-9 |
| 325.00 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-4 | 18-5 | 18-5 | 18-6 |
| 350.00 | 20-8 | 20-9 | 20-10 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 |
| 375.00 | 23-9 | 23-10 | 24-0 | 24-1 | 24-2 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 |
| 400.00 | 27-1 | 27-2 | 27-4 | 27-5 | 27-7 | 27-8 | 27-10 | 27-11 | 28-0 | 28-1 |
| 425.00 | 30-7 | 30-9 | 30-10 | 31-0 | 31-2 | 31-3 | 31-5 | 31-6 | 31-8 | 31-9 |
| 450.00 | 34-4 | 34-5 | 34-7 | 34-9 | 34-11 | 35-1 | 35-3 | 35-5 | 35-6 | 35-7 |
| 475.00 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-1 | 39-4 | 39-6 | 39-7 | 39-9 |
| 500.00 | 42-5 | 42-7 | 42-10 | 43-0 | 43-2 | 43-5 | 43-7 | 43-9 | 43-11 | 44-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS



OH812.343

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 |
| 275.00 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-2 |
| 300.00 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 |
| 325.00 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-5 |
| 350.00 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 | 21-2 | 21-3 | 21-4 | 21-4 | 21-5 |
| 375.00 | 24-0 | 24-1 | 24-2 | 24-3 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-7 |
| 400.00 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 27-11 | 28-0 |
| 425.00 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 |
| 450.00 | 34-8 | 34-9 | 34-10 | 34-11 | 35-1 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 |
| 475.00 | 38-8 | 38-9 | 38-10 | 39-0 | 39-1 | 39-2 | 39-4 | 39-5 | 39-6 | 39-7 |
| 500.00 | 42-10 | 43-0 | 43-1 | 43-3 | 43-4 | 43-6 | 43-7 | 43-9 | 43-10 | 43-11 |
| 525.00 | 47-4 | 47-5 | 47-7 | 47-9 | 47-10 | 48-0 | 48-1 | 48-3 | 48-5 | 48-6 |
| 550.00 | 52-0 | 52-1 | 52-3 | 52-5 | 52-7 | 52-9 | 52-10 | 53-0 | 53-2 | 53-3 |
| 575.00 | 56-10 | 57-0 | 57-2 | 57-4 | 57-6 | 57-8 | 57-10 | 58-0 | 58-2 | 58-4 |
| 600.00 | 62-0 | 62-2 | 62-4 | 62-6 | 62-8 | 62-11 | 63-1 | 63-3 | 63-5 | 63-7 |
| 625.00 | 67-4 | 67-6 | 67-9 | 67-11 | 68-1 | 68-4 | 68-6 | 68-8 | 68-11 | 69-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 |
| 275.00 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-2 |
| 300.00 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 |
| 325.00 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-5 | 18-5 |
| 350.00 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-5 | 21-5 |
| 375.00 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-4 | 24-5 | 24-6 | 24-7 | 24-7 |
| 400.00 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-0 |
| 425.00 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 |
| 450.00 | 34-8 | 34-9 | 34-11 | 35-0 | 35-1 | 35-2 | 35-3 | 35-4 | 35-6 | 35-6 |
| 475.00 | 38-8 | 38-9 | 38-11 | 39-0 | 39-1 | 39-3 | 39-4 | 39-5 | 39-7 | 39-7 |
| 500.00 | 42-11 | 43-0 | 43-2 | 43-3 | 43-5 | 43-6 | 43-8 | 43-9 | 43-10 | 43-11 |
| 525.00 | 47-4 | 47-6 | 47-7 | 47-9 | 47-11 | 48-0 | 48-2 | 48-3 | 48-5 | 48-6 |
| 550.00 | 52-0 | 52-2 | 52-4 | 52-5 | 52-7 | 52-9 | 52-11 | 53-1 | 53-2 | 53-3 |
| 575.00 | 56-11 | 57-1 | 57-3 | 57-5 | 57-7 | 57-9 | 57-11 | 58-1 | 58-2 | 58-4 |
| 600.00 | 62-0 | 62-3 | 62-5 | 62-7 | 62-9 | 62-11 | 63-1 | 63-3 | 63-5 | 63-7 |
| 625.00 | 67-5 | 67-7 | 67-9 | 68-0 | 68-2 | 68-4 | 68-7 | 68-9 | 68-11 | 69-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 1.34 | 2500 | 1.34 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 0.62 | 1572 | 0.6 | 1625 |
| 30 | 0 | 0 | 0 | 0.785 | 1.1 | 894 | 1.05 | 933 |
| 40 | 0 | 0 | 0 | 0.785 | 1.25 | 788 | 1.2 | 819 |
| 50 | 0 | 0 | 0 | 0.785 | 1.39 | 709 | 1.34 | 734 |
| 60 | 0 | 0 | 0 | 0.785 | 1.51 | 648 | 1.47 | 669 |
| 70 | 0 | 0 | 0 | 0.785 | 1.64 | 600 | 1.59 | 617 |
| 80 | 0 | 0 | 0 | 0.785 | 1.75 | 561 | 1.71 | 575 |
| 90 | 0 | 0 | 0 | 0.785 | 1.86 | 529 | 1.82 | 540 |
| 100 | 0 | 0 | 0 | 0.785 | 1.92 | 512 | 1.92 | 512 |
| 110 | 0 | 0 | 0 | 0.785 | 1.98 | 496 | 1.98 | 496 |
| 120 | 0 | 0 | 0 | 0.785 | 2.04 | 481 | 2.04 | 481 |
| 130 | 0 | 0 | 0 | 0.785 | 2.1 | 468 | 2.1 | 468 |
| 167 | 0 | 0 | 0 | 0.785 | 2.31 | 426 | 2.31 | 426 |
| 212 | 0 | 0 | 0 | 0.785 | 2.54 | 387 | 2.54 | 387 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 5.38 | 2500 | 5.38 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 4.63 | 850 | 4.56 | 862 |
| 30 | 0 | 0 | 0 | 0.785 | 5.12 | 768 | 5.07 | 776 |
| 40 | 0 | 0 | 0 | 0.785 | 5.28 | 746 | 5.23 | 753 |
| 50 | 0 | 0 | 0 | 0.785 | 5.43 | 725 | 5.38 | 732 |
| 60 | 0 | 0 | 0 | 0.785 | 5.57 | 706 | 5.52 | 713 |
| 70 | 0 | 0 | 0 | 0.785 | 5.72 | 689 | 5.66 | 695 |
| 80 | 0 | 0 | 0 | 0.785 | 5.86 | 672 | 5.8 | 678 |
| 90 | 0 | 0 | 0 | 0.785 | 5.99 | 657 | 5.94 | 663 |
| 100 | 0 | 0 | 0 | 0.785 | 6.13 | 643 | 6.07 | 648 |
| 110 | 0 | 0 | 0 | 0.785 | 6.21 | 634 | 6.21 | 635 |
| 120 | 0 | 0 | 0 | 0.785 | 6.29 | 626 | 6.29 | 626 |
| 130 | 0 | 0 | 0 | 0.785 | 6.37 | 618 | 6.37 | 618 |
| 167 | 0 | 0 | 0 | 0.785 | 6.66 | 592 | 6.66 | 592 |
| 212 | 0 | 0 | 0 | 0.785 | 7.01 | 563 | 7 | 563 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 12.15 | 2500 | 12.15 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 11.4 | 779 | 11.34 | 784 |
| 30 | 0 | 0 | 0 | 0.785 | 11.89 | 747 | 11.84 | 751 |
| 40 | 0 | 0 | 0 | 0.785 | 12.04 | 738 | 11.99 | 741 |
| 50 | 0 | 0 | 0 | 0.785 | 12.2 | 729 | 12.14 | 732 |
| 60 | 0 | 0 | 0 | 0.785 | 12.35 | 720 | 12.29 | 723 |
| 70 | 0 | 0 | 0 | 0.785 | 12.5 | 712 | 12.44 | 715 |
| 80 | 0 | 0 | 0 | 0.785 | 12.64 | 703 | 12.59 | 706 |
| 90 | 0 | 0 | 0 | 0.785 | 12.79 | 696 | 12.73 | 699 |
| 100 | 0 | 0 | 0 | 0.785 | 12.93 | 688 | 12.88 | 691 |
| 110 | 0 | 0 | 0 | 0.785 | 13.05 | 682 | 13.02 | 683 |
| 120 | 0 | 0 | 0 | 0.785 | 13.14 | 677 | 13.14 | 677 |
| 130 | 0 | 0 | 0 | 0.785 | 13.23 | 673 | 13.23 | 673 |
| 167 | 0 | 0 | 0 | 0.785 | 13.55 | 657 | 13.55 | 657 |
| 212 | 0 | 0 | 0 | 0.785 | 13.94 | 639 | 13.94 | 639 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 21.71 | 2500 | 21.71 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 20.97 | 757 | 20.9 | 759 |
| 30 | 0 | 0 | 0 | 0.785 | 21.45 | 740 | 21.4 | 742 |
| 40 | 0 | 0 | 0 | 0.785 | 21.6 | 735 | 21.55 | 737 |
| 50 | 0 | 0 | 0 | 0.785 | 21.76 | 730 | 21.71 | 732 |
| 60 | 0 | 0 | 0 | 0.785 | 21.91 | 725 | 21.86 | 727 |
| 70 | 0 | 0 | 0 | 0.785 | 22.06 | 720 | 22.01 | 722 |
| 80 | 0 | 0 | 0 | 0.785 | 22.21 | 716 | 22.16 | 717 |
| 90 | 0 | 0 | 0 | 0.785 | 22.36 | 711 | 22.3 | 713 |
| 100 | 0 | 0 | 0 | 0.785 | 22.51 | 706 | 22.45 | 708 |
| 110 | 0 | 0 | 0 | 0.785 | 22.64 | 702 | 22.6 | 704 |
| 120 | 0 | 0 | 0 | 0.785 | 22.73 | 700 | 22.73 | 700 |
| 130 | 0 | 0 | 0 | 0.785 | 22.82 | 697 | 22.82 | 697 |
| 167 | 0 | 0 | 0 | 0.785 | 23.17 | 687 | 23.17 | 687 |
| 212 | 0 | 0 | 0 | 0.785 | 23.58 | 675 | 23.58 | 675 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 34.15 | 2500 | 34.15 | 2500* |
| 0 | 0 | 0 | 0 | 0.785 | 33.41 | 747 | 33.34 | 749 |
| 30 | 0 | 0 | 0 | 0.785 | 33.89 | 737 | 33.84 | 738 |
| 40 | 0 | 0 | 0 | 0.785 | 34.05 | 734 | 34 | 735 |
| 50 | 0 | 0 | 0 | 0.785 | 34.2 | 731 | 34.15 | 732 |
| 60 | 0 | 0 | 0 | 0.785 | 34.35 | 728 | 34.3 | 729 |
| 70 | 0 | 0 | 0 | 0.785 | 34.51 | 724 | 34.45 | 726 |
| 80 | 0 | 0 | 0 | 0.785 | 34.66 | 721 | 34.6 | 723 |
| 90 | 0 | 0 | 0 | 0.785 | 34.81 | 718 | 34.75 | 720 |
| 100 | 0 | 0 | 0 | 0.785 | 34.96 | 715 | 34.9 | 717 |
| 110 | 0 | 0 | 0 | 0.785 | 35.09 | 713 | 35.05 | 714 |
| 120 | 0 | 0 | 0 | 0.785 | 35.19 | 711 | 35.19 | 711 |
| 130 | 0 | 0 | 0 | 0.785 | 35.29 | 709 | 35.29 | 709 |
| 167 | 0 | 0 | 0 | 0.785 | 35.64 | 702 | 35.64 | 702 |
| 212 | 0 | 0 | 0 | 0.785 | 36.07 | 694 | 36.07 | 694 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 100.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 |
| 150.00 | 2-0 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 |
| 175.00 | 2-9 | 3-3 | 3-8 | 4-1 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-1 |
| 200.00 | 3-7 | 4-3 | 4-10 | 5-4 | 5-11 | 6-4 | 6-10 | 7-3 | 7-8 | 7-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-1 |
| 100.00 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-6 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-0 | 3-1 |
| 150.00 | 2-1 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 | 4-6 |
| 175.00 | 2-11 | 3-4 | 3-10 | 4-3 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-1 |
| 200.00 | 3-9 | 4-5 | 5-0 | 5-7 | 6-1 | 6-7 | 7-0 | 7-5 | 7-8 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 125.00 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 |
| 150.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 175.00 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 |
| 200.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 |
| 225.00 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 |
| 250.00 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 | 9-6 | 9-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 |
| 125.00 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 |
| 150.00 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 |
| 175.00 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 200.00 | 5-0 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-3 |
| 225.00 | 6-3 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 |
| 250.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 175.00 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 |
| 200.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 |
| 225.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 |
| 250.00 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 |
| 275.00 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 |
| 300.00 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-11 | 13-0 |
| 325.00 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 |
| 350.00 | 15-11 | 16-2 | 16-4 | 16-7 | 16-9 | 16-11 | 17-2 | 17-4 | 17-7 | 17-9 |
| 375.00 | 18-3 | 18-6 | 18-9 | 19-0 | 19-3 | 19-6 | 19-8 | 19-11 | 20-2 | 20-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 175.00 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 |
| 200.00 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 |
| 225.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 |
| 250.00 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 |
| 275.00 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 |
| 300.00 | 11-9 | 11-11 | 12-1 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 | 12-11 | 13-1 |
| 325.00 | 13-9 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 |
| 350.00 | 16-0 | 16-2 | 16-5 | 16-7 | 16-10 | 17-0 | 17-3 | 17-5 | 17-7 | 17-9 |
| 375.00 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 | 19-9 | 20-0 | 20-3 | 20-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 |
| 225.00 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 |
| 250.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 |
| 275.00 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-7 | 10-8 |
| 300.00 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 |
| 325.00 | 14-0 | 14-1 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-10 | 14-11 |
| 350.00 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-1 | 17-2 | 17-3 |
| 375.00 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 |
| 400.00 | 21-3 | 21-5 | 21-7 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-5 | 22-7 |
| 425.00 | 24-0 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 |
| 450.00 | 26-11 | 27-1 | 27-4 | 27-6 | 27-8 | 27-11 | 28-1 | 28-3 | 28-5 | 28-8 |
| 475.00 | 30-0 | 30-3 | 30-5 | 30-8 | 30-10 | 31-1 | 31-4 | 31-6 | 31-9 | 31-11 |
| 500.00 | 33-3 | 33-6 | 33-9 | 34-0 | 34-3 | 34-6 | 34-8 | 34-11 | 35-2 | 35-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 |
| 225.00 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 |
| 250.00 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 |
| 275.00 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 |
| 300.00 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 |
| 325.00 | 14-0 | 14-2 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 |
| 350.00 | 16-3 | 16-5 | 16-6 | 16-8 | 16-9 | 16-11 | 17-0 | 17-1 | 17-3 | 17-4 |
| 375.00 | 18-8 | 18-10 | 19-0 | 19-1 | 19-3 | 19-5 | 19-6 | 19-8 | 19-9 | 19-11 |
| 400.00 | 21-4 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 | 22-4 | 22-6 | 22-8 |
| 425.00 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-5 | 25-7 |
| 450.00 | 27-0 | 27-2 | 27-4 | 27-7 | 27-9 | 27-11 | 28-2 | 28-4 | 28-6 | 28-8 |
| 475.00 | 30-1 | 30-4 | 30-6 | 30-9 | 30-11 | 31-2 | 31-4 | 31-7 | 31-10 | 32-0 |
| 500.00 | 33-4 | 33-7 | 33-10 | 34-1 | 34-4 | 34-7 | 34-9 | 35-0 | 35-3 | 35-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 |
| 275.00 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 |
| 300.00 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 |
| 325.00 | 14-2 | 14-3 | 14-4 | 14-5 | 14-5 | 14-6 | 14-7 | 14-8 | 14-8 | 14-9 |
| 350.00 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 |
| 375.00 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 |
| 400.00 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-5 |
| 425.00 | 24-4 | 24-5 | 24-6 | 24-8 | 24-9 | 24-10 | 24-11 | 25-1 | 25-2 | 25-3 |
| 450.00 | 27-3 | 27-5 | 27-6 | 27-8 | 27-9 | 27-10 | 28-0 | 28-1 | 28-3 | 28-4 |
| 475.00 | 30-5 | 30-6 | 30-8 | 30-10 | 30-11 | 31-1 | 31-3 | 31-4 | 31-6 | 31-7 |
| 500.00 | 33-8 | 33-10 | 34-0 | 34-2 | 34-4 | 34-5 | 34-7 | 34-9 | 34-11 | 35-1 |
| 525.00 | 37-2 | 37-4 | 37-6 | 37-8 | 37-10 | 38-0 | 38-2 | 38-4 | 38-6 | 38-8 |
| 550.00 | 40-10 | 41-0 | 41-2 | 41-4 | 41-7 | 41-9 | 41-11 | 42-1 | 42-3 | 42-6 |
| 575.00 | 44-8 | 44-10 | 45-1 | 45-3 | 45-5 | 45-8 | 45-10 | 46-1 | 46-3 | 46-5 |
| 600.00 | 48-8 | 48-10 | 49-1 | 49-4 | 49-6 | 49-9 | 50-0 | 50-2 | 50-5 | 50-7 |
| 625.00 | 52-10 | 53-1 | 53-4 | 53-6 | 53-9 | 54-0 | 54-3 | 54-6 | 54-9 | 55-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 |
| 275.00 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 |
| 300.00 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 |
| 325.00 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-8 | 14-9 | 14-9 |
| 350.00 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 |
| 375.00 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 |
| 400.00 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-2 | 22-3 | 22-4 | 22-5 |
| 425.00 | 24-4 | 24-5 | 24-7 | 24-8 | 24-9 | 24-11 | 25-0 | 25-1 | 25-3 | 25-4 |
| 450.00 | 27-4 | 27-5 | 27-7 | 27-8 | 27-10 | 27-11 | 28-0 | 28-2 | 28-3 | 28-5 |
| 475.00 | 30-5 | 30-7 | 30-9 | 30-10 | 31-0 | 31-1 | 31-3 | 31-5 | 31-6 | 31-8 |
| 500.00 | 33-9 | 33-11 | 34-1 | 34-2 | 34-4 | 34-6 | 34-8 | 34-10 | 35-0 | 35-1 |
| 525.00 | 37-3 | 37-5 | 37-7 | 37-9 | 37-11 | 38-1 | 38-3 | 38-5 | 38-7 | 38-9 |
| 550.00 | 40-11 | 41-1 | 41-3 | 41-5 | 41-7 | 41-10 | 42-0 | 42-2 | 42-4 | 42-6 |
| 575.00 | 44-8 | 44-11 | 45-1 | 45-4 | 45-6 | 45-9 | 45-11 | 46-2 | 46-4 | 46-6 |
| 600.00 | 48-9 | 48-11 | 49-2 | 49-5 | 49-7 | 49-10 | 50-1 | 50-3 | 50-6 | 50-8 |
| 625.00 | 52-11 | 53-2 | 53-5 | 53-7 | 53-10 | 54-1 | 54-4 | 54-7 | 54-10 | 55-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 1.12 | 3000 | 1.12 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 0.38 | 2562 | 0.38 | 2589 |
| 30 | 0 | 0 | 0 | 0.785 | 0.77 | 1283 | 0.71 | 1382 |
| 40 | 0 | 0 | 0 | 0.785 | 0.93 | 1059 | 0.86 | 1138 |
| 50 | 0 | 0 | 0 | 0.785 | 1.08 | 905 | 1.02 | 965 |
| 60 | 0 | 0 | 0 | 0.785 | 1.23 | 796 | 1.17 | 841 |
| 70 | 0 | 0 | 0 | 0.785 | 1.37 | 715 | 1.31 | 751 |
| 80 | 0 | 0 | 0 | 0.785 | 1.5 | 653 | 1.44 | 682 |
| 90 | 0 | 0 | 0 | 0.785 | 1.63 | 604 | 1.57 | 628 |
| 100 | 0 | 0 | 0 | 0.785 | 1.7 | 576 | 1.68 | 584 |
| 110 | 0 | 0 | 0 | 0.785 | 1.77 | 555 | 1.77 | 555 |
| 120 | 0 | 0 | 0 | 0.785 | 1.83 | 536 | 1.83 | 536 |
| 130 | 0 | 0 | 0 | 0.785 | 1.9 | 518 | 1.9 | 518 |
| 167 | 0 | 0 | 0 | 0.785 | 2.12 | 464 | 2.12 | 464 |
| 212 | 0 | 0 | 0 | 0.785 | 2.37 | 415 | 2.37 | 415 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 4.49 | 2992 | 4.48 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 3.49 | 1127 | 3.4 | 1157 |
| 30 | 0 | 0 | 0 | 0.785 | 4.09 | 962 | 4 | 984 |
| 40 | 0 | 0 | 0 | 0.785 | 4.27 | 920 | 4.18 | 940 |
| 50 | 0 | 0 | 0 | 0.785 | 4.45 | 883 | 4.36 | 901 |
| 60 | 0 | 0 | 0 | 0.785 | 4.63 | 850 | 4.54 | 867 |
| 70 | 0 | 0 | 0 | 0.785 | 4.8 | 820 | 4.7 | 836 |
| 80 | 0 | 0 | 0 | 0.785 | 4.96 | 793 | 4.87 | 808 |
| 90 | 0 | 0 | 0 | 0.785 | 5.12 | 769 | 5.03 | 783 |
| 100 | 0 | 0 | 0 | 0.785 | 5.27 | 747 | 5.18 | 759 |
| 110 | 0 | 0 | 0 | 0.785 | 5.38 | 731 | 5.33 | 738 |
| 120 | 0 | 0 | 0 | 0.785 | 5.48 | 719 | 5.48 | 719 |
| 130 | 0 | 0 | 0 | 0.785 | 5.57 | 707 | 5.57 | 707 |
| 167 | 0 | 0 | 0 | 0.785 | 5.89 | 669 | 5.89 | 669 |
| 212 | 0 | 0 | 0 | 0.785 | 6.27 | 629 | 6.27 | 629 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 10.12 | 2995 | 10.1 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 9.14 | 970 | 9.03 | 981 |
| 30 | 0 | 0 | 0 | 0.785 | 9.71 | 913 | 9.62 | 922 |
| 40 | 0 | 0 | 0 | 0.785 | 9.9 | 896 | 9.8 | 905 |
| 50 | 0 | 0 | 0 | 0.785 | 10.08 | 880 | 9.98 | 889 |
| 60 | 0 | 0 | 0 | 0.785 | 10.26 | 865 | 10.16 | 873 |
| 70 | 0 | 0 | 0 | 0.785 | 10.44 | 850 | 10.34 | 858 |
| 80 | 0 | 0 | 0 | 0.785 | 10.61 | 836 | 10.51 | 844 |
| 90 | 0 | 0 | 0 | 0.785 | 10.78 | 823 | 10.68 | 831 |
| 100 | 0 | 0 | 0 | 0.785 | 10.95 | 811 | 10.85 | 818 |
| 110 | 0 | 0 | 0 | 0.785 | 11.11 | 799 | 11.02 | 806 |
| 120 | 0 | 0 | 0 | 0.785 | 11.21 | 792 | 11.18 | 794 |
| 130 | 0 | 0 | 0 | 0.785 | 11.32 | 785 | 11.32 | 785 |
| 167 | 0 | 0 | 0 | 0.785 | 11.69 | 760 | 11.69 | 760 |
| 212 | 0 | 0 | 0 | 0.785 | 12.13 | 733 | 12.13 | 733 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 18.04 | 2997 | 18.03 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 17.07 | 927 | 16.96 | 932 |
| 30 | 0 | 0 | 0 | 0.785 | 17.64 | 897 | 17.54 | 902 |
| 40 | 0 | 0 | 0 | 0.785 | 17.82 | 888 | 17.72 | 893 |
| 50 | 0 | 0 | 0 | 0.785 | 18.01 | 879 | 17.9 | 884 |
| 60 | 0 | 0 | 0 | 0.785 | 18.19 | 870 | 18.09 | 875 |
| 70 | 0 | 0 | 0 | 0.785 | 18.37 | 862 | 18.26 | 867 |
| 80 | 0 | 0 | 0 | 0.785 | 18.55 | 854 | 18.44 | 859 |
| 90 | 0 | 0 | 0 | 0.785 | 18.72 | 846 | 18.62 | 851 |
| 100 | 0 | 0 | 0 | 0.785 | 18.9 | 838 | 18.79 | 843 |
| 110 | 0 | 0 | 0 | 0.785 | 19.07 | 831 | 18.97 | 835 |
| 120 | 0 | 0 | 0 | 0.785 | 19.19 | 826 | 19.14 | 828 |
| 130 | 0 | 0 | 0 | 0.785 | 19.3 | 821 | 19.3 | 821 |
| 167 | 0 | 0 | 0 | 0.785 | 19.7 | 805 | 19.7 | 805 |
| 212 | 0 | 0 | 0 | 0.785 | 20.18 | 786 | 20.18 | 786 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.682 | 28.32 | 2998 | 28.3 | 3000* |
| 0 | 0 | 0 | 0 | 0.785 | 27.34 | 908 | 27.23 | 912 |
| 30 | 0 | 0 | 0 | 0.785 | 27.91 | 890 | 27.81 | 893 |
| 40 | 0 | 0 | 0 | 0.785 | 28.09 | 884 | 27.99 | 887 |
| 50 | 0 | 0 | 0 | 0.785 | 28.28 | 879 | 28.18 | 882 |
| 60 | 0 | 0 | 0 | 0.785 | 28.46 | 873 | 28.36 | 876 |
| 70 | 0 | 0 | 0 | 0.785 | 28.64 | 868 | 28.54 | 871 |
| 80 | 0 | 0 | 0 | 0.785 | 28.82 | 862 | 28.72 | 866 |
| 90 | 0 | 0 | 0 | 0.785 | 29 | 857 | 28.9 | 860 |
| 100 | 0 | 0 | 0 | 0.785 | 29.18 | 852 | 29.07 | 855 |
| 110 | 0 | 0 | 0 | 0.785 | 29.36 | 847 | 29.25 | 850 |
| 120 | 0 | 0 | 0 | 0.785 | 29.49 | 843 | 29.43 | 845 |
| 130 | 0 | 0 | 0 | 0.785 | 29.6 | 840 | 29.6 | 840 |
| 167 | 0 | 0 | 0 | 0.785 | 30.02 | 829 | 30.02 | 829 |
| 212 | 0 | 0 | 0 | 0.785 | 30.52 | 816 | 30.52 | 816 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 4 | 0- 5 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 0 |
| 100.00 | 0- 7 | 0- 9 | 0-10 | 1- 0 | 1- 2 | 1- 4 | 1- 5 | 1- 7 | 1- 8 | 1- 9 |
| 125.00 | 0-11 | 1- 1 | 1- 4 | 1- 7 | 1-10 | 2- 1 | 2- 3 | 2- 5 | 2- 8 | 2- 9 |
| 150.00 | 1- 3 | 1- 7 | 1-11 | 2- 3 | 2- 8 | 2-11 | 3- 3 | 3- 6 | 3- 9 | 4- 0 |
| 175.00 | 1- 9 | 2- 2 | 2- 8 | 3- 1 | 3- 7 | 4- 0 | 4- 5 | 4-10 | 5- 2 | 5- 5 |
| 200.00 | 2- 4 | 2-10 | 3- 5 | 4- 1 | 4- 8 | 5- 3 | 5- 9 | 6- 3 | 6- 9 | 7- 1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 4 | 0- 5 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 0 |
| 100.00 | 0- 7 | 0- 9 | 0-11 | 1- 1 | 1- 3 | 1- 4 | 1- 6 | 1- 8 | 1- 8 | 1- 9 |
| 125.00 | 0-11 | 1- 2 | 1- 5 | 1- 8 | 1-11 | 2- 2 | 2- 4 | 2- 6 | 2- 8 | 2- 9 |
| 150.00 | 1- 5 | 1- 9 | 2- 1 | 2- 5 | 2- 9 | 3- 1 | 3- 5 | 3- 8 | 3-10 | 4- 0 |
| 175.00 | 1-10 | 2- 4 | 2-10 | 3- 4 | 3- 9 | 4- 2 | 4- 7 | 5- 0 | 5- 3 | 5- 5 |
| 200.00 | 2- 5 | 3- 1 | 3- 9 | 4- 4 | 4-11 | 5- 6 | 6- 0 | 6- 6 | 6-10 | 7- 1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1- 0 | 1- 1 | 1- 1 | 1- 2 | 1- 2 | 1- 3 | 1- 3 | 1- 4 | 1- 4 |
| 125.00 | 1- 6 | 1- 7 | 1- 8 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 0 | 2- 0 | 2- 1 |
| 150.00 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 | 3- 0 |
| 175.00 | 2-11 | 3- 1 | 3- 2 | 3- 4 | 3- 6 | 3- 7 | 3- 9 | 3-10 | 4- 0 | 4- 1 |
| 200.00 | 3-10 | 4- 0 | 4- 2 | 4- 4 | 4- 6 | 4- 8 | 4-10 | 5- 0 | 5- 2 | 5- 4 |
| 225.00 | 4-10 | 5- 1 | 5- 4 | 5- 6 | 5- 9 | 5-11 | 6- 2 | 6- 4 | 6- 7 | 6- 9 |
| 250.00 | 5-11 | 6- 3 | 6- 6 | 6-10 | 7- 1 | 7- 4 | 7- 7 | 7-10 | 8- 1 | 8- 4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1- 0 | 1- 0 | 1- 1 | 1- 1 | 1- 2 | 1- 2 | 1- 3 | 1- 3 | 1- 4 | 1- 4 |
| 125.00 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-10 | 1-10 | 1-11 | 2- 0 | 2- 1 | 2- 1 |
| 150.00 | 2- 2 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 | 2-11 | 3- 0 | 3- 0 |
| 175.00 | 3- 0 | 3- 2 | 3- 3 | 3- 5 | 3- 7 | 3- 8 | 3-10 | 3-11 | 4- 0 | 4- 1 |
| 200.00 | 3-11 | 4- 1 | 4- 3 | 4- 5 | 4- 8 | 4-10 | 5- 0 | 5- 1 | 5- 3 | 5- 5 |
| 225.00 | 4-11 | 5- 2 | 5- 5 | 5- 8 | 5-10 | 6- 1 | 6- 3 | 6- 6 | 6- 8 | 6-10 |
| 250.00 | 6- 1 | 6- 5 | 6- 8 | 7- 0 | 7- 3 | 7- 6 | 7- 9 | 8- 0 | 8- 3 | 8- 5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2- 4 | 2- 5 | 2- 5 | 2- 6 | 2- 6 | 2- 7 | 2- 7 | 2- 8 | 2- 9 | 2- 9 |
| 175.00 | 3- 2 | 3- 3 | 3- 4 | 3- 5 | 3- 5 | 3- 6 | 3- 7 | 3- 8 | 3- 8 | 3- 9 |
| 200.00 | 4- 2 | 4- 3 | 4- 4 | 4- 5 | 4- 6 | 4- 7 | 4- 8 | 4- 9 | 4-10 | 4-11 |
| 225.00 | 5- 4 | 5- 5 | 5- 6 | 5- 7 | 5- 9 | 5-10 | 5-11 | 6- 0 | 6- 1 | 6- 2 |
| 250.00 | 6- 7 | 6- 8 | 6-10 | 6-11 | 7- 1 | 7- 2 | 7- 4 | 7- 5 | 7- 6 | 7- 8 |
| 275.00 | 7-11 | 8- 1 | 8- 3 | 8- 5 | 8- 6 | 8- 8 | 8-10 | 9- 0 | 9- 1 | 9- 3 |
| 300.00 | 9- 5 | 9- 7 | 9-10 | 10- 0 | 10- 2 | 10- 4 | 10- 6 | 10- 8 | 10-10 | 11- 0 |
| 325.00 | 11- 1 | 11- 3 | 11- 6 | 11- 9 | 11-11 | 12- 2 | 12- 4 | 12- 7 | 12- 9 | 12-11 |
| 350.00 | 12-10 | 13- 1 | 13- 4 | 13- 7 | 13-10 | 14- 1 | 14- 4 | 14- 7 | 14- 9 | 15- 0 |
| 375.00 | 14- 9 | 15- 0 | 15- 4 | 15- 7 | 15-11 | 16- 2 | 16- 5 | 16- 9 | 17- 0 | 17- 3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2- 5 | 2- 5 | 2- 6 | 2- 6 | 2- 7 | 2- 7 | 2- 8 | 2- 8 | 2- 9 | 2- 9 |
| 175.00 | 3- 3 | 3- 4 | 3- 4 | 3- 5 | 3- 6 | 3- 7 | 3- 7 | 3- 8 | 3- 9 | 3- 9 |
| 200.00 | 4- 3 | 4- 4 | 4- 5 | 4- 6 | 4- 7 | 4- 8 | 4- 9 | 4- 9 | 4-10 | 4-11 |
| 225.00 | 5- 4 | 5- 6 | 5- 7 | 5- 8 | 5- 9 | 5-10 | 6- 0 | 6- 1 | 6- 2 | 6- 3 |
| 250.00 | 6- 7 | 6- 9 | 6-10 | 7- 0 | 7- 1 | 7- 3 | 7- 4 | 7- 6 | 7- 7 | 7- 9 |
| 275.00 | 8- 0 | 8- 2 | 8- 4 | 8- 6 | 8- 7 | 8- 9 | 8-11 | 9- 1 | 9- 2 | 9- 4 |
| 300.00 | 9- 6 | 9- 9 | 9-11 | 10- 1 | 10- 3 | 10- 5 | 10- 7 | 10- 9 | 10-11 | 11- 1 |
| 325.00 | 11- 2 | 11- 5 | 11- 7 | 11-10 | 12- 1 | 12- 3 | 12- 6 | 12- 8 | 12-10 | 13- 1 |
| 350.00 | 13- 0 | 13- 3 | 13- 6 | 13- 9 | 14- 0 | 14- 3 | 14- 5 | 14- 8 | 14-11 | 15- 2 |
| 375.00 | 14-11 | 15- 2 | 15- 6 | 15- 9 | 16- 1 | 16- 4 | 16- 7 | 16-10 | 17- 2 | 17- 5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4- 4 | 4- 5 | 4- 5 | 4- 6 | 4- 6 | 4- 7 | 4- 7 | 4- 8 | 4- 8 | 4- 9 |
| 225.00 | 5- 6 | 5- 6 | 5- 7 | 5- 8 | 5- 9 | 5- 9 | 5-10 | 5-11 | 5-11 | 6- 0 |
| 250.00 | 6- 9 | 6-10 | 6-11 | 7- 0 | 7- 1 | 7- 1 | 7- 2 | 7- 3 | 7- 4 | 7- 5 |
| 275.00 | 8- 2 | 8- 3 | 8- 4 | 8- 5 | 8- 6 | 8- 7 | 8- 8 | 8- 9 | 8-10 | 8-11 |
| 300.00 | 9- 9 | 9-10 | 9-11 | 10- 1 | 10- 2 | 10- 3 | 10- 4 | 10- 6 | 10- 7 | 10- 8 |
| 325.00 | 11- 5 | 11- 7 | 11- 8 | 11-10 | 11-11 | 12- 1 | 12- 2 | 12- 3 | 12- 5 | 12- 6 |
| 350.00 | 13- 3 | 13- 5 | 13- 7 | 13- 8 | 13-10 | 14- 0 | 14- 1 | 14- 3 | 14- 5 | 14- 6 |
| 375.00 | 15- 3 | 15- 5 | 15- 7 | 15- 9 | 15-11 | 16- 1 | 16- 2 | 16- 4 | 16- 6 | 16- 8 |
| 400.00 | 17- 4 | 17- 6 | 17- 9 | 17-11 | 18- 1 | 18- 3 | 18- 5 | 18- 7 | 18-10 | 19- 0 |
| 425.00 | 19- 7 | 19-10 | 20- 0 | 20- 3 | 20- 5 | 20- 8 | 20-10 | 21- 0 | 21- 3 | 21- 5 |
| 450.00 | 22- 0 | 22- 3 | 22- 5 | 22- 8 | 22-11 | 23- 2 | 23- 4 | 23- 7 | 23-10 | 24- 0 |
| 475.00 | 24- 6 | 24- 9 | 25- 0 | 25- 3 | 25- 6 | 25- 9 | 26- 0 | 26- 3 | 26- 6 | 26- 9 |
| 500.00 | 27- 2 | 27- 5 | 27- 9 | 28- 0 | 28- 4 | 28- 7 | 28-10 | 29- 2 | 29- 5 | 29- 8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4- 4 | 4- 5 | 4- 5 | 4- 6 | 4- 6 | 4- 7 | 4- 8 | 4- 8 | 4- 9 | 4- 9 |
| 225.00 | 5- 6 | 5- 7 | 5- 8 | 5- 8 | 5- 9 | 5-10 | 5-10 | 5-11 | 6- 0 | 6- 0 |
| 250.00 | 6-10 | 6-11 | 6-11 | 7- 0 | 7- 1 | 7- 2 | 7- 3 | 7- 4 | 7- 4 | 7- 5 |
| 275.00 | 8- 3 | 8- 4 | 8- 5 | 8- 6 | 8- 7 | 8- 8 | 8- 9 | 8-10 | 8-11 | 9- 0 |
| 300.00 | 9-10 | 9-11 | 10- 0 | 10- 1 | 10- 3 | 10- 4 | 10- 5 | 10- 6 | 10- 7 | 10- 9 |
| 325.00 | 11- 6 | 11- 8 | 11- 9 | 11-11 | 12- 0 | 12- 1 | 12- 3 | 12- 4 | 12- 6 | 12- 7 |
| 350.00 | 13- 4 | 13- 6 | 13- 8 | 13- 9 | 13-11 | 14- 1 | 14- 2 | 14- 4 | 14- 6 | 14- 7 |
| 375.00 | 15- 4 | 15- 6 | 15- 8 | 15-10 | 16- 0 | 16- 2 | 16- 4 | 16- 5 | 16- 7 | 16- 9 |
| 400.00 | 17- 5 | 17- 8 | 17-10 | 18- 0 | 18- 2 | 18- 4 | 18- 7 | 18- 9 | 18-11 | 19- 1 |
| 425.00 | 19- 8 | 19-11 | 20- 2 | 20- 4 | 20- 6 | 20- 9 | 20-11 | 21- 2 | 21- 4 | 21- 6 |
| 450.00 | 22- 1 | 22- 4 | 22- 7 | 22-10 | 23- 0 | 23- 3 | 23- 6 | 23- 9 | 23-11 | 24- 2 |
| 475.00 | 24- 8 | 24-11 | 25- 2 | 25- 5 | 25- 8 | 25-11 | 26- 2 | 26- 5 | 26- 8 | 26-11 |
| 500.00 | 27- 4 | 27- 7 | 27-11 | 28- 2 | 28- 6 | 28- 9 | 29- 0 | 29- 4 | 29- 7 | 29-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS



OH812.359

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-11 | 6-11 | 7- 0 | 7- 0 | 7- 1 | 7- 1 | 7- 2 | 7- 2 | 7- 3 | 7- 3 |
| 275.00 | 8- 4 | 8- 5 | 8- 5 | 8- 6 | 8- 7 | 8- 7 | 8- 8 | 8- 9 | 8- 9 | 8-10 |
| 300.00 | 9-11 | 10- 0 | 10- 1 | 10- 1 | 10- 2 | 10- 3 | 10- 4 | 10- 4 | 10- 5 | 10- 6 |
| 325.00 | 11- 8 | 11- 9 | 11-10 | 11-11 | 11-11 | 12- 0 | 12- 1 | 12- 2 | 12- 3 | 12- 4 |
| 350.00 | 13- 6 | 13- 7 | 13- 8 | 13- 9 | 13-10 | 13-11 | 14- 0 | 14- 2 | 14- 3 | 14- 4 |
| 375.00 | 15- 6 | 15- 7 | 15- 9 | 15-10 | 15-11 | 16- 0 | 16- 1 | 16- 3 | 16- 4 | 16- 5 |
| 400.00 | 17- 8 | 17- 9 | 17-11 | 18- 0 | 18- 1 | 18- 3 | 18- 4 | 18- 6 | 18- 7 | 18- 8 |
| 425.00 | 19-11 | 20- 1 | 20- 2 | 20- 4 | 20- 6 | 20- 7 | 20- 9 | 20-10 | 21- 0 | 21- 1 |
| 450.00 | 22- 4 | 22- 6 | 22- 8 | 22-10 | 22-11 | 23- 1 | 23- 3 | 23- 5 | 23- 6 | 23- 8 |
| 475.00 | 24-11 | 25- 1 | 25- 3 | 25- 5 | 25- 7 | 25- 9 | 25-11 | 26- 1 | 26- 3 | 26- 5 |
| 500.00 | 27- 7 | 27-10 | 28- 0 | 28- 2 | 28- 4 | 28- 6 | 28- 9 | 28-11 | 29- 1 | 29- 3 |
| 525.00 | 30- 6 | 30- 8 | 30-10 | 31- 1 | 31- 3 | 31- 6 | 31- 8 | 31-10 | 32- 1 | 32- 3 |
| 550.00 | 33- 5 | 33- 8 | 33-11 | 34- 1 | 34- 4 | 34- 7 | 34- 9 | 35- 0 | 35- 3 | 35- 5 |
| 575.00 | 36- 7 | 36-10 | 37- 1 | 37- 4 | 37- 7 | 37-10 | 38- 0 | 38- 3 | 38- 6 | 38- 9 |
| 600.00 | 39-10 | 40- 1 | 40- 5 | 40- 8 | 40-11 | 41- 2 | 41- 5 | 41- 8 | 41-11 | 42- 2 |
| 625.00 | 43- 3 | 43- 7 | 43-10 | 44- 2 | 44- 5 | 44- 8 | 45- 0 | 45- 3 | 45- 6 | 45-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-11 | 6-11 | 7- 0 | 7- 1 | 7- 1 | 7- 2 | 7- 2 | 7- 3 | 7- 3 | 7- 4 |
| 275.00 | 8- 4 | 8- 5 | 8- 6 | 8- 6 | 8- 7 | 8- 8 | 8- 8 | 8- 9 | 8-10 | 8-10 |
| 300.00 | 9-11 | 10- 0 | 10- 1 | 10- 2 | 10- 3 | 10- 3 | 10- 4 | 10- 5 | 10- 6 | 10- 6 |
| 325.00 | 11- 8 | 11- 9 | 11-10 | 11-11 | 12- 0 | 12- 1 | 12- 2 | 12- 3 | 12- 4 | 12- 4 |
| 350.00 | 13- 7 | 13- 8 | 13- 9 | 13-10 | 13-11 | 14- 0 | 14- 1 | 14- 2 | 14- 3 | 14- 4 |
| 375.00 | 15- 7 | 15- 8 | 15- 9 | 15-11 | 16- 0 | 16- 1 | 16- 2 | 16- 3 | 16- 5 | 16- 6 |
| 400.00 | 17- 9 | 17-10 | 17-11 | 18- 1 | 18- 2 | 18- 4 | 18- 5 | 18- 6 | 18- 8 | 18- 9 |
| 425.00 | 20- 0 | 20- 2 | 20- 3 | 20- 5 | 20- 6 | 20- 8 | 20-10 | 20-11 | 21- 1 | 21- 2 |
| 450.00 | 22- 5 | 22- 7 | 22- 9 | 22-11 | 23- 0 | 23- 2 | 23- 4 | 23- 6 | 23- 7 | 23- 9 |
| 475.00 | 25- 0 | 25- 2 | 25- 4 | 25- 6 | 25- 8 | 25-10 | 26- 0 | 26- 2 | 26- 4 | 26- 6 |
| 500.00 | 27- 9 | 27-11 | 28- 1 | 28- 3 | 28- 6 | 28- 8 | 28-10 | 29- 0 | 29- 2 | 29- 4 |
| 525.00 | 30- 7 | 30- 9 | 31- 0 | 31- 2 | 31- 5 | 31- 7 | 31-10 | 32- 0 | 32- 2 | 32- 5 |
| 550.00 | 33- 7 | 33-10 | 34- 0 | 34- 3 | 34- 6 | 34- 8 | 34-11 | 35- 2 | 35- 4 | 35- 7 |
| 575.00 | 36- 9 | 36-11 | 37- 2 | 37- 5 | 37- 8 | 37-11 | 38- 2 | 38- 5 | 38- 8 | 38-11 |
| 600.00 | 40- 0 | 40- 3 | 40- 6 | 40-10 | 41- 1 | 41- 4 | 41- 7 | 41-10 | 42- 1 | 42- 4 |
| 625.00 | 43- 5 | 43- 8 | 44- 0 | 44- 3 | 44- 7 | 44-10 | 45- 2 | 45- 5 | 45- 9 | 46- 0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1033.5 - 45/7 ACSR/AW CONDUCTOR.
CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION
1000 LB TENSION ---------- 813.3
1500 LB TENSION ---------- 813.11
2000 LB TENSION ---------- 813.19
2500 LB TENSION ---------- 813.27
3000 LB TENSION ---------- 813.35

G.O. 95 HEAVY LOADING CONDITION
1000 LB TENSION ---------- 813.43
1500 LB TENSION ---------- 813.51
2000 LB TENSION ---------- 813.59
2500 LB TENSION ---------- 813.67
3000 LB TENSION ---------- 813.75

SDG&E EXTRA HEAVY LOADING CONDITION
1000 LB TENSION ---------- 813.83
1500 LB TENSION ---------- 813.91
2000 LB TENSION ---------- 813.99
2500 LB TENSION ---------- 813.107
3000 LB TENSION ---------- 813.115

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 813.123
1500 LB TENSION ---------- 813.131
2000 LB TENSION ---------- 813.139
2500 LB TENSION ---------- 813.147
3000 LB TENSION ---------- 813.155

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 813.163
1500 LB TENSION ---------- 813.171
2000 LB TENSION ---------- 813.179
2500 LB TENSION ---------- 813.187
3000 LB TENSION ---------- 813.195

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 813.203
1500 LB TENSION ---------- 813.211
2000 LB TENSION ---------- 813.219
2500 LB TENSION ---------- 813.227
3000 LB TENSION ---------- 813.235

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 813.243
1500 LB TENSION ---------- 813.251
2000 LB TENSION ---------- 813.259
2500 LB TENSION ---------- 813.267
3000 LB TENSION ---------- 813.275


TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

1033.5 - 45/7 ACSR/AW TABLE OF CONTENTS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1033.5 - 45/7 ACSR/AW CONDUCTOR.
CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 813.283
1500 LB TENSION ---------- 813.291
2000 LB TENSION ---------- 813.299
2500 LB TENSION ---------- 813.307
3000 LB TENSION ---------- 813.315

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 813.323
1500 LB TENSION ---------- 813.331
2000 LB TENSION ---------- 813.339
2500 LB TENSION ---------- 813.347
3000 LB TENSION ---------- 813.355


**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

1033.5 - 45/7 ACSR/AW TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 1.74 | 1000 | 1.74 | 1000* |
| 25 | 0 | 0 | 0 | 1.134 | 1.72 | 825 | 1.71 | 828 |
| 30 | 0 | 0 | 0 | 1.134 | 1.78 | 798 | 1.77 | 801 |
| 40 | 0 | 0 | 0 | 1.134 | 1.89 | 750 | 1.89 | 753 |
| 50 | 0 | 0 | 0 | 1.134 | 2 | 709 | 1.99 | 712 |
| 60 | 0 | 0 | 0 | 1.134 | 2.11 | 675 | 2.1 | 678 |
| 70 | 0 | 0 | 0 | 1.134 | 2.2 | 644 | 2.19 | 647 |
| 80 | 0 | 0 | 0 | 1.134 | 2.3 | 618 | 2.29 | 621 |
| 90 | 0 | 0 | 0 | 1.134 | 2.39 | 594 | 2.38 | 597 |
| 100 | 0 | 0 | 0 | 1.134 | 2.47 | 575 | 2.47 | 576 |
| 110 | 0 | 0 | 0 | 1.134 | 2.54 | 560 | 2.54 | 560 |
| 120 | 0 | 0 | 0 | 1.134 | 2.59 | 549 | 2.59 | 549 |
| 130 | 0 | 0 | 0 | 1.134 | 2.63 | 540 | 2.63 | 540 |
| 167 | 0 | 0 | 0 | 1.134 | 2.8 | 507 | 2.8 | 507 |
| 212 | 0 | 0 | 0 | 1.134 | 3 | 475 | 3 | 475 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 7 | 1000 | 7 | 1000* |
| 25 | 0 | 0 | 0 | 1.134 | 6.97 | 817 | 6.97 | 818 |
| 30 | 0 | 0 | 0 | 1.134 | 7.03 | 810 | 7.03 | 811 |
| 40 | 0 | 0 | 0 | 1.134 | 7.16 | 796 | 7.15 | 797 |
| 50 | 0 | 0 | 0 | 1.134 | 7.28 | 783 | 7.27 | 784 |
| 60 | 0 | 0 | 0 | 1.134 | 7.4 | 771 | 7.39 | 772 |
| 70 | 0 | 0 | 0 | 1.134 | 7.51 | 759 | 7.5 | 760 |
| 80 | 0 | 0 | 0 | 1.134 | 7.63 | 747 | 7.62 | 748 |
| 90 | 0 | 0 | 0 | 1.134 | 7.74 | 737 | 7.73 | 738 |
| 100 | 0 | 0 | 0 | 1.134 | 7.86 | 726 | 7.84 | 727 |
| 110 | 0 | 0 | 0 | 1.134 | 7.97 | 716 | 7.95 | 717 |
| 120 | 0 | 0 | 0 | 1.134 | 8.06 | 708 | 8.06 | 708 |
| 130 | 0 | 0 | 0 | 1.134 | 8.15 | 701 | 8.15 | 701 |
| 167 | 0 | 0 | 0 | 1.134 | 8.38 | 682 | 8.38 | 682 |
| 212 | 0 | 0 | 0 | 1.134 | 8.65 | 660 | 8.65 | 660 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 15.84 | 1000 | 15.84 | 1000* |
| 25 | 0 | 0 | 0 | 1.134 | 15.81 | 816 | 15.81 | 816 |
| 30 | 0 | 0 | 0 | 1.134 | 15.88 | 812 | 15.87 | 813 |
| 40 | 0 | 0 | 0 | 1.134 | 16 | 806 | 16 | 807 |
| 50 | 0 | 0 | 0 | 1.134 | 16.13 | 800 | 16.12 | 801 |
| 60 | 0 | 0 | 0 | 1.134 | 16.25 | 794 | 16.24 | 795 |
| 70 | 0 | 0 | 0 | 1.134 | 16.37 | 789 | 16.36 | 789 |
| 80 | 0 | 0 | 0 | 1.134 | 16.49 | 783 | 16.48 | 783 |
| 90 | 0 | 0 | 0 | 1.134 | 16.61 | 777 | 16.6 | 778 |
| 100 | 0 | 0 | 0 | 1.134 | 16.73 | 772 | 16.72 | 772 |
| 110 | 0 | 0 | 0 | 1.134 | 16.85 | 767 | 16.84 | 767 |
| 120 | 0 | 0 | 0 | 1.134 | 16.97 | 762 | 16.96 | 762 |
| 130 | 0 | 0 | 0 | 1.134 | 17.07 | 757 | 17.07 | 757 |
| 167 | 0 | 0 | 0 | 1.134 | 17.34 | 746 | 17.34 | 746 |
| 212 | 0 | 0 | 0 | 1.134 | 17.64 | 733 | 17.64 | 733 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 28.41 | 1000 | 28.41 | 1000* |
| 25 | 0 | 0 | 0 | 1.134 | 28.39 | 815 | 28.38 | 815 |
| 30 | 0 | 0 | 0 | 1.134 | 28.45 | 813 | 28.44 | 814 |
| 40 | 0 | 0 | 0 | 1.134 | 28.58 | 810 | 28.57 | 810 |
| 50 | 0 | 0 | 0 | 1.134 | 28.7 | 807 | 28.69 | 807 |
| 60 | 0 | 0 | 0 | 1.134 | 28.82 | 803 | 28.82 | 803 |
| 70 | 0 | 0 | 0 | 1.134 | 28.95 | 800 | 28.94 | 800 |
| 80 | 0 | 0 | 0 | 1.134 | 29.07 | 797 | 29.06 | 797 |
| 90 | 0 | 0 | 0 | 1.134 | 29.2 | 793 | 29.18 | 794 |
| 100 | 0 | 0 | 0 | 1.134 | 29.32 | 790 | 29.31 | 791 |
| 110 | 0 | 0 | 0 | 1.134 | 29.44 | 787 | 29.43 | 787 |
| 120 | 0 | 0 | 0 | 1.134 | 29.56 | 784 | 29.55 | 784 |
| 130 | 0 | 0 | 0 | 1.134 | 29.67 | 781 | 29.67 | 781 |
| 167 | 0 | 0 | 0 | 1.134 | 29.96 | 774 | 29.96 | 774 |
| 212 | 0 | 0 | 0 | 1.134 | 30.28 | 766 | 30.28 | 766 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 44.92 | 1000 | 44.92 | 1000* |
| 25 | 0 | 0 | 0 | 1.134 | 44.9 | 815 | 44.89 | 815 |
| 30 | 0 | 0 | 0 | 1.134 | 44.96 | 814 | 44.95 | 814 |
| 40 | 0 | 0 | 0 | 1.134 | 45.09 | 812 | 45.08 | 812 |
| 50 | 0 | 0 | 0 | 1.134 | 45.21 | 810 | 45.2 | 810 |
| 60 | 0 | 0 | 0 | 1.134 | 45.34 | 807 | 45.33 | 808 |
| 70 | 0 | 0 | 0 | 1.134 | 45.46 | 805 | 45.45 | 806 |
| 80 | 0 | 0 | 0 | 1.134 | 45.59 | 803 | 45.58 | 803 |
| 90 | 0 | 0 | 0 | 1.134 | 45.71 | 801 | 45.7 | 801 |
| 100 | 0 | 0 | 0 | 1.134 | 45.83 | 799 | 45.82 | 799 |
| 110 | 0 | 0 | 0 | 1.134 | 45.96 | 797 | 45.94 | 797 |
| 120 | 0 | 0 | 0 | 1.134 | 46.08 | 795 | 46.07 | 795 |
| 130 | 0 | 0 | 0 | 1.134 | 46.19 | 794 | 46.19 | 794 |
| 167 | 0 | 0 | 0 | 1.134 | 46.49 | 789 | 46.49 | 789 |
| 212 | 0 | 0 | 0 | 1.134 | 46.82 | 783 | 46.82 | 783 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-6 |
| 125.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 |
| 150.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 |
| 175.00 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-7 | 7-10 |
| 200.00 | 6-7 | 7-1 | 7-7 | 8-0 | 8-5 | 8-9 | 9-2 | 9-6 | 9-11 | 10-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-6 |
| 125.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 |
| 150.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 |
| 175.00 | 5-1 | 5-5 | 5-10 | 6-2 | 6-5 | 6-9 | 7-1 | 7-4 | 7-7 | 7-10 |
| 200.00 | 6-8 | 7-1 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-7 | 9-11 | 10-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.6

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 |
| 125.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 |
| 175.00 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 200.00 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 |
| 225.00 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 |
| 250.00 | 10-10 | 11-0 | 11-2 | 11-4 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 |
| 125.00 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 |
| 175.00 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 200.00 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 8-0 |
| 225.00 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 |
| 250.00 | 10-10 | 11-0 | 11-2 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.7

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 |
| 175.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 |
| 200.00 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 |
| 225.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-5 |
| 250.00 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 |
| 275.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 |
| 300.00 | 15-9 | 15-10 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 |
| 325.00 | 18-6 | 18-8 | 18-9 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 | 19-8 | 19-9 |
| 350.00 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 22-11 |
| 375.00 | 24-8 | 24-10 | 25-1 | 25-3 | 25-5 | 25-7 | 25-10 | 26-0 | 26-2 | 26-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 |
| 175.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 |
| 200.00 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 |
| 225.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 250.00 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 |
| 275.00 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 |
| 300.00 | 15-9 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 |
| 325.00 | 18-6 | 18-8 | 18-10 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 | 19-8 | 19-10 |
| 350.00 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 23-0 |
| 375.00 | 24-8 | 24-10 | 25-1 | 25-3 | 25-5 | 25-8 | 25-10 | 26-0 | 26-2 | 26-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.8

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-1 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 |
| 225.00 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 |
| 250.00 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 |
| 275.00 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 |
| 300.00 | 15-11 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 |
| 325.00 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 |
| 350.00 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-3 | 22-4 | 22-5 | 22-6 |
| 375.00 | 24-10 | 25-0 | 25-1 | 25-2 | 25-4 | 25-5 | 25-6 | 25-8 | 25-9 | 25-10 |
| 400.00 | 28-4 | 28-5 | 28-7 | 28-8 | 28-10 | 28-11 | 29-1 | 29-2 | 29-4 | 29-5 |
| 425.00 | 32-0 | 32-2 | 32-3 | 32-5 | 32-7 | 32-8 | 32-10 | 33-0 | 33-1 | 33-3 |
| 450.00 | 35-11 | 36-1 | 36-3 | 36-5 | 36-6 | 36-8 | 36-10 | 37-0 | 37-2 | 37-4 |
| 475.00 | 40-0 | 40-3 | 40-5 | 40-7 | 40-9 | 40-11 | 41-1 | 41-3 | 41-5 | 41-7 |
| 500.00 | 44-5 | 44-7 | 44-10 | 45-0 | 45-2 | 45-5 | 45-7 | 45-9 | 46-0 | 46-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-1 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 |
| 225.00 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 |
| 250.00 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 |
| 275.00 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 |
| 300.00 | 15-11 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 |
| 325.00 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 |
| 350.00 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 |
| 375.00 | 24-10 | 25-0 | 25-1 | 25-2 | 25-4 | 25-5 | 25-6 | 25-8 | 25-9 | 25-10 |
| 400.00 | 28-4 | 28-5 | 28-7 | 28-8 | 28-10 | 28-11 | 29-1 | 29-2 | 29-4 | 29-5 |
| 425.00 | 32-0 | 32-2 | 32-3 | 32-5 | 32-7 | 32-9 | 32-10 | 33-0 | 33-2 | 33-3 |
| 450.00 | 35-11 | 36-1 | 36-3 | 36-5 | 36-7 | 36-8 | 36-10 | 37-0 | 37-2 | 37-4 |
| 475.00 | 40-1 | 40-3 | 40-5 | 40-7 | 40-9 | 40-11 | 41-1 | 41-3 | 41-6 | 41-8 |
| 500.00 | 44-5 | 44-7 | 44-10 | 45-0 | 45-3 | 45-5 | 45-7 | 45-10 | 46-0 | 46-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 |
| 275.00 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 |
| 300.00 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 |
| 325.00 | 18-10 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 |
| 350.00 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 |
| 375.00 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 |
| 400.00 | 28-7 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 |
| 425.00 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 |
| 450.00 | 36-3 | 36-4 | 36-5 | 36-6 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-2 |
| 475.00 | 40-5 | 40-6 | 40-8 | 40-9 | 40-10 | 41-0 | 41-1 | 41-2 | 41-4 | 41-5 |
| 500.00 | 44-10 | 44-11 | 45-1 | 45-2 | 45-4 | 45-5 | 45-7 | 45-8 | 45-10 | 45-11 |
| 525.00 | 49-6 | 49-7 | 49-9 | 49-11 | 50-0 | 50-2 | 50-4 | 50-5 | 50-7 | 50-9 |
| 550.00 | 54-4 | 54-6 | 54-8 | 54-10 | 55-0 | 55-1 | 55-3 | 55-5 | 55-7 | 55-9 |
| 575.00 | 59-6 | 59-8 | 59-10 | 60-0 | 60-2 | 60-4 | 60-6 | 60-8 | 60-10 | 61-0 |
| 600.00 | 64-10 | 65-0 | 65-3 | 65-5 | 65-7 | 65-9 | 65-11 | 66-1 | 66-4 | 66-6 |
| 625.00 | 70-6 | 70-8 | 70-10 | 71-1 | 71-3 | 71-5 | 71-8 | 71-10 | 72-0 | 72-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 |
| 275.00 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 |
| 300.00 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 |
| 325.00 | 18-10 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-2 | 19-2 | 19-3 | 19-4 |
| 350.00 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 |
| 375.00 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 |
| 400.00 | 28-7 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 |
| 425.00 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 |
| 450.00 | 36-3 | 36-4 | 36-5 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-1 | 37-2 |
| 475.00 | 40-5 | 40-6 | 40-8 | 40-9 | 40-10 | 41-0 | 41-1 | 41-3 | 41-4 | 41-5 |
| 500.00 | 44-10 | 45-0 | 45-1 | 45-3 | 45-4 | 45-6 | 45-7 | 45-9 | 45-10 | 45-11 |
| 525.00 | 49-6 | 49-7 | 49-9 | 49-11 | 50-0 | 50-2 | 50-4 | 50-5 | 50-7 | 50-9 |
| 550.00 | 54-4 | 54-6 | 54-8 | 54-10 | 55-0 | 55-2 | 55-3 | 55-5 | 55-7 | 55-9 |
| 575.00 | 59-6 | 59-8 | 59-10 | 60-0 | 60-2 | 60-4 | 60-6 | 60-8 | 60-10 | 61-0 |
| 600.00 | 64-10 | 65-1 | 65-3 | 65-5 | 65-7 | 65-9 | 65-11 | 66-2 | 66-4 | 66-6 |
| 625.00 | 70-6 | 70-8 | 70-10 | 71-1 | 71-3 | 71-6 | 71-8 | 71-10 | 72-1 | 72-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 1.16 | 1500 | 1.16 | 1500* |
| 25 | 0 | 0 | 0 | 1.134 | 1.11 | 1272 | 1.11 | 1282 |
| 30 | 0 | 0 | 0 | 1.134 | 1.19 | 1188 | 1.18 | 1201 |
| 40 | 0 | 0 | 0 | 1.134 | 1.34 | 1056 | 1.33 | 1070 |
| 50 | 0 | 0 | 0 | 1.134 | 1.48 | 957 | 1.46 | 970 |
| 60 | 0 | 0 | 0 | 1.134 | 1.61 | 879 | 1.59 | 891 |
| 70 | 0 | 0 | 0 | 1.134 | 1.74 | 817 | 1.71 | 828 |
| 80 | 0 | 0 | 0 | 1.134 | 1.85 | 766 | 1.83 | 776 |
| 90 | 0 | 0 | 0 | 1.134 | 1.96 | 723 | 1.94 | 732 |
| 100 | 0 | 0 | 0 | 1.134 | 2.07 | 686 | 2.04 | 695 |
| 110 | 0 | 0 | 0 | 1.134 | 2.15 | 660 | 2.14 | 662 |
| 120 | 0 | 0 | 0 | 1.134 | 2.23 | 638 | 2.23 | 638 |
| 130 | 0 | 0 | 0 | 1.134 | 2.28 | 624 | 2.28 | 624 |
| 167 | 0 | 0 | 0 | 1.134 | 2.46 | 577 | 2.46 | 577 |
| 212 | 0 | 0 | 0 | 1.134 | 2.68 | 531 | 2.68 | 531 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 4.71 | 1483 | 4.65 | 1500* |
| 25 | 0 | 0 | 0 | 1.134 | 4.65 | 1221 | 4.59 | 1239 |
| 30 | 0 | 0 | 0 | 1.134 | 4.74 | 1198 | 4.68 | 1215 |
| 40 | 0 | 0 | 0 | 1.134 | 4.92 | 1156 | 4.85 | 1172 |
| 50 | 0 | 0 | 0 | 1.134 | 5.09 | 1117 | 5.02 | 1133 |
| 60 | 0 | 0 | 0 | 1.134 | 5.25 | 1083 | 5.18 | 1097 |
| 70 | 0 | 0 | 0 | 1.134 | 5.41 | 1051 | 5.34 | 1065 |
| 80 | 0 | 0 | 0 | 1.134 | 5.57 | 1021 | 5.5 | 1035 |
| 90 | 0 | 0 | 0 | 1.134 | 5.72 | 994 | 5.65 | 1007 |
| 100 | 0 | 0 | 0 | 1.134 | 5.87 | 969 | 5.8 | 981 |
| 110 | 0 | 0 | 0 | 1.134 | 6.01 | 946 | 5.94 | 958 |
| 120 | 0 | 0 | 0 | 1.134 | 6.16 | 924 | 6.08 | 935 |
| 130 | 0 | 0 | 0 | 1.134 | 6.3 | 904 | 6.22 | 915 |
| 167 | 0 | 0 | 0 | 1.134 | 6.6 | 862 | 6.6 | 862 |
| 212 | 0 | 0 | 0 | 1.134 | 6.93 | 822 | 6.93 | 822 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 10.57 | 1489 | 10.49 | 1500* |
| 25 | 0 | 0 | 0 | 1.134 | 10.52 | 1219 | 10.43 | 1229 |
| 30 | 0 | 0 | 0 | 1.134 | 10.61 | 1208 | 10.52 | 1219 |
| 40 | 0 | 0 | 0 | 1.134 | 10.79 | 1188 | 10.7 | 1198 |
| 50 | 0 | 0 | 0 | 1.134 | 10.97 | 1169 | 10.88 | 1179 |
| 60 | 0 | 0 | 0 | 1.134 | 11.15 | 1150 | 11.06 | 1160 |
| 70 | 0 | 0 | 0 | 1.134 | 11.32 | 1133 | 11.23 | 1143 |
| 80 | 0 | 0 | 0 | 1.134 | 11.5 | 1116 | 11.4 | 1126 |
| 90 | 0 | 0 | 0 | 1.134 | 11.67 | 1100 | 11.57 | 1109 |
| 100 | 0 | 0 | 0 | 1.134 | 11.83 | 1085 | 11.73 | 1094 |
| 110 | 0 | 0 | 0 | 1.134 | 12 | 1070 | 11.9 | 1079 |
| 120 | 0 | 0 | 0 | 1.134 | 12.16 | 1056 | 12.06 | 1065 |
| 130 | 0 | 0 | 0 | 1.134 | 12.32 | 1042 | 12.22 | 1051 |
| 167 | 0 | 0 | 0 | 1.134 | 12.77 | 1006 | 12.77 | 1006 |
| 212 | 0 | 0 | 0 | 1.134 | 13.17 | 976 | 13.17 | 976 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 18.82 | 1493 | 18.73 | 1500* |
| 25 | 0 | 0 | 0 | 1.134 | 18.76 | 1219 | 18.66 | 1226 |
| 30 | 0 | 0 | 0 | 1.134 | 18.86 | 1213 | 18.75 | 1220 |
| 40 | 0 | 0 | 0 | 1.134 | 19.04 | 1202 | 18.94 | 1208 |
| 50 | 0 | 0 | 0 | 1.134 | 19.23 | 1191 | 19.12 | 1197 |
| 60 | 0 | 0 | 0 | 1.134 | 19.41 | 1180 | 19.3 | 1186 |
| 70 | 0 | 0 | 0 | 1.134 | 19.59 | 1169 | 19.48 | 1175 |
| 80 | 0 | 0 | 0 | 1.134 | 19.77 | 1159 | 19.66 | 1165 |
| 90 | 0 | 0 | 0 | 1.134 | 19.94 | 1148 | 19.84 | 1155 |
| 100 | 0 | 0 | 0 | 1.134 | 20.12 | 1139 | 20.01 | 1145 |
| 110 | 0 | 0 | 0 | 1.134 | 20.29 | 1129 | 20.18 | 1135 |
| 120 | 0 | 0 | 0 | 1.134 | 20.47 | 1120 | 20.35 | 1126 |
| 130 | 0 | 0 | 0 | 1.134 | 20.64 | 1111 | 20.53 | 1117 |
| 167 | 0 | 0 | 0 | 1.134 | 21.17 | 1083 | 21.14 | 1085 |
| 212 | 0 | 0 | 0 | 1.134 | 21.62 | 1061 | 21.62 | 1061 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 29.51 | 1495 | 29.41 | 1500* |
| 25 | 0 | 0 | 0 | 1.134 | 29.45 | 1220 | 29.34 | 1224 |
| 30 | 0 | 0 | 0 | 1.134 | 29.54 | 1216 | 29.44 | 1221 |
| 40 | 0 | 0 | 0 | 1.134 | 29.73 | 1209 | 29.62 | 1213 |
| 50 | 0 | 0 | 0 | 1.134 | 29.92 | 1201 | 29.81 | 1206 |
| 60 | 0 | 0 | 0 | 1.134 | 30.1 | 1194 | 29.99 | 1199 |
| 70 | 0 | 0 | 0 | 1.134 | 30.29 | 1187 | 30.17 | 1192 |
| 80 | 0 | 0 | 0 | 1.134 | 30.47 | 1180 | 30.35 | 1185 |
| 90 | 0 | 0 | 0 | 1.134 | 30.65 | 1174 | 30.53 | 1178 |
| 100 | 0 | 0 | 0 | 1.134 | 30.83 | 1167 | 30.71 | 1171 |
| 110 | 0 | 0 | 0 | 1.134 | 31.01 | 1160 | 30.89 | 1165 |
| 120 | 0 | 0 | 0 | 1.134 | 31.19 | 1154 | 31.07 | 1158 |
| 130 | 0 | 0 | 0 | 1.134 | 31.37 | 1148 | 31.24 | 1152 |
| 167 | 0 | 0 | 0 | 1.134 | 31.95 | 1127 | 31.89 | 1129 |
| 212 | 0 | 0 | 0 | 1.134 | 32.42 | 1111 | 32.42 | 1111 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 |
| 125.00 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 150.00 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 |
| 175.00 | 3-2 | 3-7 | 4-1 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 |
| 200.00 | 4-1 | 4-9 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 100.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 125.00 | 1-7 | 1-10 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 |
| 150.00 | 2-4 | 2-8 | 3-0 | 3-4 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 |
| 175.00 | 3-2 | 3-8 | 4-1 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-4 | 6-7 |
| 200.00 | 4-2 | 4-9 | 5-5 | 5-11 | 6-6 | 6-11 | 7-5 | 7-10 | 8-3 | 8-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.14

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 |
| 125.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 |
| 150.00 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 175.00 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 |
| 200.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 5-11 |
| 225.00 | 5-8 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 |
| 250.00 | 7-0 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 125.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 150.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 175.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 |
| 200.00 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 |
| 225.00 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 |
| 250.00 | 7-2 | 7-5 | 7-8 | 7-11 | 8-3 | 8-6 | 8-8 | 8-11 | 9-2 | 9-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS



OH813.15

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 |
| 175.00 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 |
| 200.00 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 |
| 225.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 250.00 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 |
| 275.00 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 |
| 300.00 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 |
| 325.00 | 12-2 | 12-4 | 12-7 | 12-9 | 13-0 | 13-2 | 13-5 | 13-7 | 13-9 | 14-0 |
| 350.00 | 14-1 | 14-4 | 14-7 | 14-10 | 15-1 | 15-4 | 15-6 | 15-9 | 16-0 | 16-2 |
| 375.00 | 16-2 | 16-5 | 16-9 | 17-0 | 17-3 | 17-7 | 17-10 | 18-1 | 18-4 | 18-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 |
| 175.00 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 |
| 200.00 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 225.00 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 |
| 250.00 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 |
| 275.00 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 |
| 300.00 | 10-5 | 10-7 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 |
| 325.00 | 12-3 | 12-5 | 12-8 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 |
| 350.00 | 14-2 | 14-5 | 14-8 | 14-11 | 15-2 | 15-5 | 15-8 | 15-11 | 16-1 | 16-4 |
| 375.00 | 16-4 | 16-7 | 16-11 | 17-2 | 17-5 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.16

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 |
| 225.00 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 |
| 250.00 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-10 |
| 275.00 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 300.00 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 | 10-11 | 11-1 | 11-2 | 11-3 | 11-4 |
| 325.00 | 12-3 | 12-4 | 12-6 | 12-7 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-4 |
| 350.00 | 14-2 | 14-4 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-2 | 15-4 | 15-5 |
| 375.00 | 16-4 | 16-6 | 16-8 | 16-10 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 | 17-9 |
| 400.00 | 18-7 | 18-9 | 18-11 | 19-1 | 19-4 | 19-6 | 19-8 | 19-10 | 20-0 | 20-2 |
| 425.00 | 21-0 | 21-2 | 21-5 | 21-7 | 21-10 | 22-0 | 22-2 | 22-5 | 22-7 | 22-10 |
| 450.00 | 23-6 | 23-9 | 24-0 | 24-3 | 24-5 | 24-8 | 24-11 | 25-2 | 25-4 | 25-7 |
| 475.00 | 26-3 | 26-6 | 26-9 | 27-0 | 27-3 | 27-6 | 27-9 | 28-0 | 28-3 | 28-6 |
| 500.00 | 29-1 | 29-4 | 29-8 | 29-11 | 30-3 | 30-6 | 30-9 | 31-1 | 31-4 | 31-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 |
| 225.00 | 5-11 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 |
| 250.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 |
| 275.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 |
| 300.00 | 10-6 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 |
| 325.00 | 12-4 | 12-5 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 | 13-2 | 13-3 | 13-5 |
| 350.00 | 14-3 | 14-5 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-3 | 15-5 | 15-6 |
| 375.00 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 | 17-4 | 17-6 | 17-8 | 17-10 |
| 400.00 | 18-8 | 18-10 | 19-1 | 19-3 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-4 |
| 425.00 | 21-1 | 21-4 | 21-6 | 21-9 | 21-11 | 22-1 | 22-4 | 22-6 | 22-9 | 22-11 |
| 450.00 | 23-8 | 23-11 | 24-1 | 24-4 | 24-7 | 24-10 | 25-0 | 25-3 | 25-6 | 25-9 |
| 475.00 | 26-4 | 26-7 | 26-11 | 27-2 | 27-5 | 27-8 | 27-11 | 28-2 | 28-5 | 28-8 |
| 500.00 | 29-3 | 29-6 | 29-10 | 30-1 | 30-5 | 30-8 | 30-11 | 31-3 | 31-6 | 31-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 |
| 275.00 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 |
| 300.00 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 |
| 325.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 13-0 |
| 350.00 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 |
| 375.00 | 16-5 | 16-6 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 |
| 400.00 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 | 19-3 | 19-5 | 19-6 | 19-7 | 19-9 |
| 425.00 | 21-1 | 21-3 | 21-4 | 21-6 | 21-8 | 21-9 | 21-11 | 22-0 | 22-2 | 22-3 |
| 450.00 | 23-8 | 23-10 | 24-0 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-10 | 25-0 |
| 475.00 | 26-5 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-8 | 27-10 |
| 500.00 | 29-3 | 29-5 | 29-7 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-9 | 30-11 |
| 525.00 | 32-3 | 32-6 | 32-8 | 32-11 | 33-1 | 33-3 | 33-6 | 33-8 | 33-11 | 34-1 |
| 550.00 | 35-5 | 35-8 | 35-11 | 36-1 | 36-4 | 36-7 | 36-9 | 37-0 | 37-2 | 37-5 |
| 575.00 | 38-9 | 39-0 | 39-3 | 39-6 | 39-9 | 40-0 | 40-2 | 40-5 | 40-8 | 40-11 |
| 600.00 | 42-2 | 42-6 | 42-9 | 43-0 | 43-3 | 43-6 | 43-10 | 44-1 | 44-4 | 44-7 |
| 625.00 | 45-10 | 46-1 | 46-5 | 46-8 | 47-0 | 47-3 | 47-7 | 47-10 | 48-1 | 48-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 |
| 275.00 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 |
| 300.00 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 325.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 |
| 350.00 | 14-4 | 14-5 | 14-6 | 14-7 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 |
| 375.00 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-4 | 17-5 |
| 400.00 | 18-9 | 18-11 | 19-0 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 | 19-8 | 19-10 |
| 425.00 | 21-2 | 21-4 | 21-5 | 21-7 | 21-9 | 21-10 | 22-0 | 22-1 | 22-3 | 22-4 |
| 450.00 | 23-9 | 23-11 | 24-1 | 24-3 | 24-4 | 24-6 | 24-8 | 24-10 | 24-11 | 25-1 |
| 475.00 | 26-6 | 26-8 | 26-10 | 27-0 | 27-2 | 27-4 | 27-6 | 27-8 | 27-10 | 28-0 |
| 500.00 | 29-4 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 | 30-6 | 30-8 | 30-10 | 31-0 |
| 525.00 | 32-5 | 32-7 | 32-10 | 33-0 | 33-2 | 33-5 | 33-7 | 33-10 | 34-0 | 34-2 |
| 550.00 | 35-7 | 35-9 | 36-0 | 36-3 | 36-6 | 36-8 | 36-11 | 37-1 | 37-4 | 37-7 |
| 575.00 | 38-11 | 39-2 | 39-5 | 39-8 | 39-10 | 40-1 | 40-4 | 40-7 | 40-10 | 41-1 |
| 600.00 | 42-4 | 42-8 | 42-11 | 43-2 | 43-5 | 43-8 | 44-0 | 44-3 | 44-6 | 44-9 |
| 625.00 | 46-0 | 46-3 | 46-7 | 46-10 | 47-2 | 47-5 | 47-9 | 48-0 | 48-4 | 48-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 0.88 | 1971 | 0.87 | 2000* |
| 25 | 0 | 0 | 0 | 1.134 | 0.82 | 1733 | 0.8 | 1783 |
| 30 | 0 | 0 | 0 | 1.134 | 0.9 | 1571 | 0.87 | 1626 |
| 40 | 0 | 0 | 0 | 1.134 | 1.07 | 1327 | 1.03 | 1380 |
| 50 | 0 | 0 | 0 | 1.134 | 1.23 | 1156 | 1.18 | 1202 |
| 60 | 0 | 0 | 0 | 1.134 | 1.37 | 1032 | 1.33 | 1071 |
| 70 | 0 | 0 | 0 | 1.134 | 1.51 | 938 | 1.46 | 970 |
| 80 | 0 | 0 | 0 | 1.134 | 1.64 | 865 | 1.59 | 892 |
| 90 | 0 | 0 | 0 | 1.134 | 1.76 | 805 | 1.71 | 829 |
| 100 | 0 | 0 | 0 | 1.134 | 1.88 | 756 | 1.83 | 776 |
| 110 | 0 | 0 | 0 | 1.134 | 1.99 | 714 | 1.94 | 733 |
| 120 | 0 | 0 | 0 | 1.134 | 2.05 | 691 | 2.04 | 695 |
| 130 | 0 | 0 | 0 | 1.134 | 2.11 | 674 | 2.11 | 674 |
| 167 | 0 | 0 | 0 | 1.134 | 2.3 | 617 | 2.3 | 617 |
| 212 | 0 | 0 | 0 | 1.134 | 2.53 | 562 | 2.52 | 563 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 3.62 | 1925 | 3.49 | 2000* |
| 25 | 0 | 0 | 0 | 1.134 | 3.54 | 1605 | 3.38 | 1681 |
| 30 | 0 | 0 | 0 | 1.134 | 3.65 | 1556 | 3.49 | 1628 |
| 40 | 0 | 0 | 0 | 1.134 | 3.86 | 1470 | 3.7 | 1534 |
| 50 | 0 | 0 | 0 | 1.134 | 4.07 | 1396 | 3.91 | 1454 |
| 60 | 0 | 0 | 0 | 1.134 | 4.27 | 1332 | 4.11 | 1384 |
| 70 | 0 | 0 | 0 | 1.134 | 4.46 | 1275 | 4.3 | 1322 |
| 80 | 0 | 0 | 0 | 1.134 | 4.64 | 1225 | 4.48 | 1268 |
| 90 | 0 | 0 | 0 | 1.134 | 4.82 | 1180 | 4.66 | 1219 |
| 100 | 0 | 0 | 0 | 1.134 | 4.99 | 1139 | 4.84 | 1175 |
| 110 | 0 | 0 | 0 | 1.134 | 5.16 | 1102 | 5 | 1136 |
| 120 | 0 | 0 | 0 | 1.134 | 5.32 | 1069 | 5.17 | 1100 |
| 130 | 0 | 0 | 0 | 1.134 | 5.48 | 1038 | 5.33 | 1067 |
| 167 | 0 | 0 | 0 | 1.134 | 5.85 | 973 | 5.84 | 974 |
| 212 | 0 | 0 | 0 | 1.134 | 6.2 | 917 | 6.2 | 918 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 8.06 | 1950 | 7.85 | 2000* |
| 25 | 0 | 0 | 0 | 1.134 | 7.97 | 1606 | 7.74 | 1653 |
| 30 | 0 | 0 | 0 | 1.134 | 8.08 | 1583 | 7.86 | 1628 |
| 40 | 0 | 0 | 0 | 1.134 | 8.31 | 1539 | 8.09 | 1582 |
| 50 | 0 | 0 | 0 | 1.134 | 8.54 | 1499 | 8.32 | 1539 |
| 60 | 0 | 0 | 0 | 1.134 | 8.76 | 1461 | 8.54 | 1499 |
| 70 | 0 | 0 | 0 | 1.134 | 8.98 | 1426 | 8.75 | 1462 |
| 80 | 0 | 0 | 0 | 1.134 | 9.19 | 1393 | 8.97 | 1428 |
| 90 | 0 | 0 | 0 | 1.134 | 9.4 | 1363 | 9.17 | 1396 |
| 100 | 0 | 0 | 0 | 1.134 | 9.6 | 1334 | 9.38 | 1366 |
| 110 | 0 | 0 | 0 | 1.134 | 9.8 | 1307 | 9.58 | 1337 |
| 120 | 0 | 0 | 0 | 1.134 | 10 | 1282 | 9.78 | 1311 |
| 130 | 0 | 0 | 0 | 1.134 | 10.19 | 1258 | 9.97 | 1285 |
| 167 | 0 | 0 | 0 | 1.134 | 10.79 | 1189 | 10.66 | 1203 |
| 212 | 0 | 0 | 0 | 1.134 | 11.24 | 1142 | 11.23 | 1142 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 14.23 | 1967 | 13.99 | 2000* |
| 25 | 0 | 0 | 0 | 1.134 | 14.13 | 1613 | 13.87 | 1643 |
| 30 | 0 | 0 | 0 | 1.134 | 14.26 | 1599 | 13.99 | 1629 |
| 40 | 0 | 0 | 0 | 1.134 | 14.5 | 1573 | 14.23 | 1601 |
| 50 | 0 | 0 | 0 | 1.134 | 14.73 | 1548 | 14.47 | 1576 |
| 60 | 0 | 0 | 0 | 1.134 | 14.96 | 1524 | 14.7 | 1551 |
| 70 | 0 | 0 | 0 | 1.134 | 15.19 | 1501 | 14.93 | 1527 |
| 80 | 0 | 0 | 0 | 1.134 | 15.42 | 1480 | 15.16 | 1505 |
| 90 | 0 | 0 | 0 | 1.134 | 15.64 | 1459 | 15.38 | 1483 |
| 100 | 0 | 0 | 0 | 1.134 | 15.86 | 1439 | 15.6 | 1462 |
| 110 | 0 | 0 | 0 | 1.134 | 16.08 | 1419 | 15.82 | 1443 |
| 120 | 0 | 0 | 0 | 1.134 | 16.3 | 1401 | 16.04 | 1423 |
| 130 | 0 | 0 | 0 | 1.134 | 16.51 | 1383 | 16.25 | 1405 |
| 167 | 0 | 0 | 0 | 1.134 | 17.27 | 1323 | 17.01 | 1343 |
| 212 | 0 | 0 | 0 | 1.134 | 17.79 | 1285 | 17.79 | 1285 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 22.18 | 1977 | 21.92 | 2000* |
| 25 | 0 | 0 | 0 | 1.134 | 22.08 | 1617 | 21.8 | 1638 |
| 30 | 0 | 0 | 0 | 1.134 | 22.21 | 1608 | 21.93 | 1629 |
| 40 | 0 | 0 | 0 | 1.134 | 22.45 | 1591 | 22.17 | 1611 |
| 50 | 0 | 0 | 0 | 1.134 | 22.69 | 1575 | 22.41 | 1594 |
| 60 | 0 | 0 | 0 | 1.134 | 22.93 | 1558 | 22.65 | 1577 |
| 70 | 0 | 0 | 0 | 1.134 | 23.17 | 1543 | 22.89 | 1561 |
| 80 | 0 | 0 | 0 | 1.134 | 23.4 | 1528 | 23.12 | 1546 |
| 90 | 0 | 0 | 0 | 1.134 | 23.64 | 1513 | 23.35 | 1531 |
| 100 | 0 | 0 | 0 | 1.134 | 23.87 | 1498 | 23.58 | 1516 |
| 110 | 0 | 0 | 0 | 1.134 | 24.09 | 1484 | 23.81 | 1502 |
| 120 | 0 | 0 | 0 | 1.134 | 24.32 | 1471 | 24.04 | 1488 |
| 130 | 0 | 0 | 0 | 1.134 | 24.54 | 1458 | 24.26 | 1475 |
| 167 | 0 | 0 | 0 | 1.134 | 25.36 | 1412 | 25.07 | 1428 |
| 212 | 0 | 0 | 0 | 1.134 | 26 | 1378 | 26 | 1378 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 5 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 0 | 1- 1 |
| 100.00 | 0- 9 | 0-10 | 1- 0 | 1- 2 | 1- 4 | 1- 6 | 1- 7 | 1- 9 | 1-10 | 1-11 |
| 125.00 | 1- 2 | 1- 4 | 1- 7 | 1-10 | 2- 1 | 2- 3 | 2- 6 | 2- 8 | 2-10 | 3- 0 |
| 150.00 | 1- 7 | 2- 0 | 2- 4 | 2- 8 | 3- 0 | 3- 3 | 3- 7 | 3-10 | 4- 1 | 4- 4 |
| 175.00 | 2- 3 | 2- 8 | 3- 2 | 3- 7 | 4- 1 | 4- 6 | 4-11 | 5- 3 | 5- 7 | 5-11 |
| 200.00 | 2-11 | 3- 6 | 4- 1 | 4- 9 | 5- 4 | 5-10 | 6- 4 | 6-10 | 7- 4 | 7- 9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 125.00 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 |
| 150.00 | 1-8 | 2-0 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 |
| 175.00 | 2-3 | 2-9 | 3-3 | 3-9 | 4-3 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 |
| 200.00 | 2-11 | 3-7 | 4-3 | 4-11 | 5-6 | 6-1 | 6-7 | 7-1 | 7-6 | 8-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.22

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 |
| 175.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 |
| 200.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 225.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 | 6-1 | 6-4 |
| 250.00 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-3 | 7-7 | 7-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 |
| 175.00 | 2-7 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 |
| 200.00 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 |
| 225.00 | 4-4 | 4-7 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-4 | 6-6 |
| 250.00 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-3 | 7-6 | 7-10 | 8-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 |
| 175.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 |
| 200.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 225.00 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 |
| 250.00 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 |
| 275.00 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-11 | 8-1 |
| 300.00 | 7-7 | 7-10 | 8-1 | 8-4 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 |
| 325.00 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 |
| 350.00 | 10-4 | 10-8 | 11-0 | 11-4 | 11-7 | 11-11 | 12-3 | 12-6 | 12-9 | 13-1 |
| 375.00 | 11-11 | 12-3 | 12-8 | 13-0 | 13-4 | 13-8 | 14-0 | 14-4 | 14-8 | 15-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 175.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 |
| 200.00 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 225.00 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 |
| 250.00 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-10 |
| 275.00 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 |
| 300.00 | 7-10 | 8-1 | 8-4 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-10 |
| 325.00 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 |
| 350.00 | 10-8 | 11-0 | 11-4 | 11-8 | 11-11 | 12-3 | 12-6 | 12-10 | 13-1 | 13-4 |
| 375.00 | 12-3 | 12-8 | 13-0 | 13-4 | 13-8 | 14-0 | 14-4 | 14-8 | 15-0 | 15-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 |
| 225.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 |
| 250.00 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 |
| 275.00 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 |
| 300.00 | 7-9 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-11 |
| 325.00 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-5 |
| 350.00 | 10-6 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 |
| 375.00 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 | 13-9 | 13-11 |
| 400.00 | 13-9 | 14-0 | 14-3 | 14-6 | 14-8 | 14-11 | 15-2 | 15-5 | 15-7 | 15-10 |
| 425.00 | 15-6 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-10 |
| 450.00 | 17-5 | 17-9 | 18-0 | 18-4 | 18-7 | 18-11 | 19-2 | 19-6 | 19-9 | 20-0 |
| 475.00 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-0 | 22-4 |
| 500.00 | 21-6 | 21-11 | 22-3 | 22-8 | 23-0 | 23-4 | 23-9 | 24-1 | 24-5 | 24-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 |
| 225.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 |
| 250.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 |
| 275.00 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 |
| 300.00 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 | 9-0 |
| 325.00 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-7 |
| 350.00 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 |
| 375.00 | 12-4 | 12-6 | 12-9 | 12-11 | 13-2 | 13-4 | 13-7 | 13-9 | 13-11 | 14-2 |
| 400.00 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 | 15-2 | 15-5 | 15-8 | 15-10 | 16-1 |
| 425.00 | 15-10 | 16-1 | 16-4 | 16-8 | 16-11 | 17-2 | 17-5 | 17-8 | 17-11 | 18-2 |
| 450.00 | 17-9 | 18-1 | 18-4 | 18-8 | 18-11 | 19-3 | 19-6 | 19-10 | 20-1 | 20-4 |
| 475.00 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-1 | 22-5 | 22-8 |
| 500.00 | 21-11 | 22-4 | 22-8 | 23-0 | 23-5 | 23-9 | 24-1 | 24-6 | 24-10 | 25-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.25

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 |
| 275.00 | 6-7 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 |
| 300.00 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 325.00 | 9-2 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-1 |
| 350.00 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-8 |
| 375.00 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 |
| 400.00 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-9 | 14-11 | 15-1 | 15-3 |
| 425.00 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 | 16-6 | 16-8 | 16-10 | 17-0 | 17-2 |
| 450.00 | 17-7 | 17-9 | 17-11 | 18-2 | 18-4 | 18-6 | 18-9 | 18-11 | 19-1 | 19-3 |
| 475.00 | 19-7 | 19-9 | 20-0 | 20-3 | 20-5 | 20-8 | 20-10 | 21-1 | 21-3 | 21-6 |
| 500.00 | 21-8 | 21-11 | 22-2 | 22-5 | 22-8 | 22-11 | 23-1 | 23-4 | 23-7 | 23-10 |
| 525.00 | 23-11 | 24-2 | 24-5 | 24-9 | 25-0 | 25-3 | 25-6 | 25-9 | 26-0 | 26-3 |
| 550.00 | 26-3 | 26-7 | 26-10 | 27-2 | 27-5 | 27-9 | 28-0 | 28-3 | 28-7 | 28-10 |
| 575.00 | 28-8 | 29-0 | 29-4 | 29-8 | 30-0 | 30-4 | 30-7 | 30-11 | 31-3 | 31-6 |
| 600.00 | 31-3 | 31-7 | 32-0 | 32-4 | 32-8 | 33-0 | 33-4 | 33-8 | 34-0 | 34-4 |
| 625.00 | 33-11 | 34-4 | 34-8 | 35-1 | 35-5 | 35-10 | 36-2 | 36-7 | 36-11 | 37-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 |
| 275.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 |
| 300.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 325.00 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 |
| 350.00 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 |
| 375.00 | 12-4 | 12-6 | 12-7 | 12-9 | 12-11 | 13-0 | 13-2 | 13-3 | 13-5 | 13-6 |
| 400.00 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-1 | 15-3 | 15-5 |
| 425.00 | 15-10 | 16-0 | 16-2 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 | 17-5 |
| 450.00 | 17-9 | 18-0 | 18-2 | 18-4 | 18-7 | 18-9 | 18-11 | 19-2 | 19-4 | 19-6 |
| 475.00 | 19-10 | 20-0 | 20-3 | 20-6 | 20-8 | 20-11 | 21-1 | 21-4 | 21-6 | 21-9 |
| 500.00 | 22-0 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-10 | 24-1 |
| 525.00 | 24-3 | 24-6 | 24-9 | 25-0 | 25-3 | 25-7 | 25-10 | 26-1 | 26-4 | 26-7 |
| 550.00 | 26-7 | 26-11 | 27-2 | 27-6 | 27-9 | 28-1 | 28-4 | 28-7 | 28-11 | 29-2 |
| 575.00 | 29-1 | 29-5 | 29-9 | 30-0 | 30-4 | 30-8 | 31-0 | 31-3 | 31-7 | 31-11 |
| 600.00 | 31-8 | 32-0 | 32-4 | 32-9 | 33-1 | 33-5 | 33-9 | 34-1 | 34-5 | 34-9 |
| 625.00 | 34-4 | 34-9 | 35-2 | 35-6 | 35-11 | 36-3 | 36-8 | 37-0 | 37-4 | 37-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 0.72 | 2408 | 0.7 | 2500* |
| 25 | 0 | 0 | 0 | 1.134 | 0.65 | 2186 | 0.61 | 2313 |
| 30 | 0 | 0 | 0 | 1.134 | 0.73 | 1947 | 0.68 | 2086 |
| 40 | 0 | 0 | 0 | 1.134 | 0.9 | 1583 | 0.83 | 1714 |
| 50 | 0 | 0 | 0 | 1.134 | 1.06 | 1335 | 0.98 | 1443 |
| 60 | 0 | 0 | 0 | 1.134 | 1.22 | 1162 | 1.14 | 1248 |
| 70 | 0 | 0 | 0 | 1.134 | 1.37 | 1037 | 1.28 | 1105 |
| 80 | 0 | 0 | 0 | 1.134 | 1.51 | 942 | 1.42 | 997 |
| 90 | 0 | 0 | 0 | 1.134 | 1.64 | 867 | 1.55 | 913 |
| 100 | 0 | 0 | 0 | 1.134 | 1.76 | 807 | 1.68 | 846 |
| 110 | 0 | 0 | 0 | 1.134 | 1.87 | 758 | 1.8 | 791 |
| 120 | 0 | 0 | 0 | 1.134 | 1.95 | 730 | 1.91 | 745 |
| 130 | 0 | 0 | 0 | 1.134 | 2 | 709 | 2 | 711 |
| 167 | 0 | 0 | 0 | 1.134 | 2.2 | 645 | 2.19 | 648 |
| 212 | 0 | 0 | 0 | 1.134 | 2.43 | 584 | 2.42 | 587 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 2.99 | 2328 | 2.79 | 2500* |
| 25 | 0 | 0 | 0 | 1.134 | 2.88 | 1970 | 2.64 | 2152 |
| 30 | 0 | 0 | 0 | 1.134 | 3 | 1889 | 2.76 | 2057 |
| 40 | 0 | 0 | 0 | 1.134 | 3.25 | 1749 | 3 | 1894 |
| 50 | 0 | 0 | 0 | 1.134 | 3.48 | 1633 | 3.23 | 1759 |
| 60 | 0 | 0 | 0 | 1.134 | 3.7 | 1536 | 3.45 | 1646 |
| 70 | 0 | 0 | 0 | 1.134 | 3.91 | 1453 | 3.66 | 1549 |
| 80 | 0 | 0 | 0 | 1.134 | 4.11 | 1381 | 3.87 | 1467 |
| 90 | 0 | 0 | 0 | 1.134 | 4.31 | 1318 | 4.07 | 1395 |
| 100 | 0 | 0 | 0 | 1.134 | 4.5 | 1263 | 4.26 | 1332 |
| 110 | 0 | 0 | 0 | 1.134 | 4.68 | 1214 | 4.45 | 1277 |
| 120 | 0 | 0 | 0 | 1.134 | 4.86 | 1170 | 4.63 | 1227 |
| 130 | 0 | 0 | 0 | 1.134 | 5.03 | 1130 | 4.81 | 1183 |
| 167 | 0 | 0 | 0 | 1.134 | 5.43 | 1048 | 5.41 | 1051 |
| 212 | 0 | 0 | 0 | 1.134 | 5.8 | 980 | 5.79 | 983 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| ign Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 25 | 0 | 8 | 0 | 1.392 | 6.61 | 2376 | 6.28 | 2500* |
| 25 | 0 | 0 | 0 | 1.134 | 6.48 | 1973 | 6.1 | 2093 |
| 30 | 0 | 0 | 0 | 1.134 | 6.62 | 1932 | 6.24 | 2047 |
| 40 | 0 | 0 | 0 | 1.134 | 6.89 | 1856 | 6.52 | 1961 |
| 50 | 0 | 0 | 0 | 1.134 | 7.15 | 1788 | 6.78 | 1885 |
| 60 | 0 | 0 | 0 | 1.134 | 7.41 | 1727 | 7.04 | 1816 |
| 70 | 0 | 0 | 0 | 1.134 | 7.65 | 1671 | 7.29 | 1753 |
| 80 | 0 | 0 | 0 | 1.134 | 7.9 | 1620 | 7.54 | 1696 |
| 90 | 0 | 0 | 0 | 1.134 | 8.13 | 1573 | 7.78 | 1644 |
| 100 | 0 | 0 | 0 | 1.134 | 8.36 | 1530 | 8.01 | 1597 |
| 110 | 0 | 0 | 0 | 1.134 | 8.59 | 1491 | 8.24 | 1553 |
| 120 | 0 | 0 | 0 | 1.134 | 8.81 | 1454 | 8.46 | 1512 |
| 130 | 0 | 0 | 0 | 1.134 | 9.02 | 1419 | 8.68 | 1474 |
| 167 | 0 | 0 | 0 | 1.134 | 9.72 | 1318 | 9.45 | 1355 |
| 212 | 0 | 0 | 0 | 1.134 | 10.2 | 1256 | 10.19 | 1257 |

* Design Condition

Span = 400 ft

| Design Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 25 | 0 | 8 | 0 | 1.392 | 11.57 | 2414 | 11.17 | 2500* |
| 25 | 0 | 0 | 0 | 1.134 | 11.44 | 1989 | 10.99 | 2069 |
| 30 | 0 | 0 | 0 | 1.134 | 11.58 | 1965 | 11.14 | 2042 |
| 40 | 0 | 0 | 0 | 1.134 | 11.87 | 1917 | 11.43 | 1991 |
| 50 | 0 | 0 | 0 | 1.134 | 12.15 | 1873 | 11.71 | 1943 |
| 60 | 0 | 0 | 0 | 1.134 | 12.43 | 1832 | 11.99 | 1898 |
| 70 | 0 | 0 | 0 | 1.134 | 12.7 | 1793 | 12.26 | 1857 |
| 80 | 0 | 0 | 0 | 1.134 | 12.96 | 1757 | 12.53 | 1817 |
| 90 | 0 | 0 | 0 | 1.134 | 13.22 | 1723 | 12.79 | 1780 |
| 100 | 0 | 0 | 0 | 1.134 | 13.48 | 1690 | 13.05 | 1745 |
| 110 | 0 | 0 | 0 | 1.134 | 13.73 | 1659 | 13.31 | 1712 |
| 120 | 0 | 0 | 0 | 1.134 | 13.98 | 1630 | 13.56 | 1681 |
| 130 | 0 | 0 | 0 | 1.134 | 14.22 | 1603 | 13.8 | 1651 |
| 167 | 0 | 0 | 0 | 1.134 | 15.09 | 1511 | 14.68 | 1553 |
| 212 | 0 | 0 | 0 | 1.134 | 15.74 | 1450 | 15.69 | 1454 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 17.94 | 2439 | 17.49 | 2500* |
| 25 | 0 | 0 | 0 | 1.134 | 17.79 | 2002 | 17.3 | 2058 |
| 30 | 0 | 0 | 0 | 1.134 | 17.94 | 1985 | 17.45 | 2040 |
| 40 | 0 | 0 | 0 | 1.134 | 18.24 | 1953 | 17.75 | 2006 |
| 50 | 0 | 0 | 0 | 1.134 | 18.53 | 1923 | 18.04 | 1974 |
| 60 | 0 | 0 | 0 | 1.134 | 18.82 | 1894 | 18.33 | 1943 |
| 70 | 0 | 0 | 0 | 1.134 | 19.1 | 1866 | 18.62 | 1914 |
| 80 | 0 | 0 | 0 | 1.134 | 19.38 | 1839 | 18.9 | 1886 |
| 90 | 0 | 0 | 0 | 1.134 | 19.66 | 1814 | 19.18 | 1859 |
| 100 | 0 | 0 | 0 | 1.134 | 19.93 | 1789 | 19.45 | 1833 |
| 110 | 0 | 0 | 0 | 1.134 | 20.2 | 1766 | 19.72 | 1808 |
| 120 | 0 | 0 | 0 | 1.134 | 20.47 | 1743 | 19.99 | 1784 |
| 130 | 0 | 0 | 0 | 1.134 | 20.73 | 1721 | 20.25 | 1761 |
| 167 | 0 | 0 | 0 | 1.134 | 21.68 | 1647 | 21.2 | 1683 |
| 212 | 0 | 0 | 0 | 1.134 | 22.52 | 1587 | 22.31 | 1601 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 |
| 125.00 | 0-10 | 1-1 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 | 2-10 |
| 150.00 | 1-3 | 1-6 | 1-10 | 2-3 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 |
| 175.00 | 1-8 | 2-1 | 2-6 | 3-0 | 3-6 | 3-11 | 4-4 | 4-9 | 5-2 | 5-6 |
| 200.00 | 2-3 | 2-9 | 3-4 | 3-11 | 4-7 | 5-2 | 5-8 | 6-3 | 6-9 | 7-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 100.00 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-10 |
| 125.00 | 0-11 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 |
| 150.00 | 1-4 | 1-8 | 2-0 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 3-11 | 4-3 |
| 175.00 | 1-9 | 2-3 | 2-9 | 3-3 | 3-9 | 4-2 | 4-7 | 5-0 | 5-5 | 5-9 |
| 200.00 | 2-4 | 2-11 | 3-7 | 4-3 | 4-11 | 5-6 | 6-0 | 6-7 | 7-0 | 7-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.30

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 150.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 |
| 175.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 |
| 200.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 |
| 225.00 | 3-2 | 3-6 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 |
| 250.00 | 3-11 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 150.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 |
| 175.00 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 |
| 200.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 |
| 225.00 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 |
| 250.00 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.31

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 |
| 175.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200.00 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 |
| 225.00 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 |
| 250.00 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 |
| 275.00 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 |
| 300.00 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-4 | 7-6 | 7-9 | 8-0 | 8-3 |
| 325.00 | 7-0 | 7-4 | 7-8 | 8-0 | 8-3 | 8-7 | 8-10 | 9-2 | 9-5 | 9-8 |
| 350.00 | 8-1 | 8-6 | 8-10 | 9-3 | 9-7 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 |
| 375.00 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 | 11-5 | 11-9 | 12-2 | 12-6 | 12-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 200.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 |
| 225.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-10 |
| 250.00 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 |
| 275.00 | 5-4 | 5-7 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 |
| 300.00 | 6-4 | 6-7 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 |
| 325.00 | 7-5 | 7-9 | 8-1 | 8-5 | 8-8 | 9-0 | 9-3 | 9-7 | 9-10 | 10-1 |
| 350.00 | 8-8 | 9-0 | 9-5 | 9-9 | 10-1 | 10-5 | 10-9 | 11-1 | 11-5 | 11-8 |
| 375.00 | 9-11 | 10-4 | 10-9 | 11-2 | 11-7 | 12-0 | 12-4 | 12-9 | 13-1 | 13-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 |
| 250.00 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 |
| 275.00 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 |
| 300.00 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-6 |
| 325.00 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 |
| 350.00 | 8-4 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-7 | 9-9 | 10-0 | 10-2 |
| 375.00 | 9-6 | 9-9 | 10-1 | 10-4 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-8 |
| 400.00 | 10-10 | 11-2 | 11-5 | 11-9 | 12-0 | 12-3 | 12-6 | 12-10 | 13-1 | 13-4 |
| 425.00 | 12-3 | 12-7 | 12-11 | 13-3 | 13-6 | 13-10 | 14-2 | 14-5 | 14-9 | 15-0 |
| 450.00 | 13-9 | 14-1 | 14-6 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-6 | 16-10 |
| 475.00 | 15-4 | 15-9 | 16-1 | 16-6 | 16-11 | 17-4 | 17-8 | 18-1 | 18-5 | 18-9 |
| 500.00 | 16-11 | 17-5 | 17-10 | 18-4 | 18-9 | 19-2 | 19-7 | 20-0 | 20-5 | 20-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 |
| 225.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 250.00 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 |
| 275.00 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-6 |
| 300.00 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-7 | 7-9 |
| 325.00 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 |
| 350.00 | 8-8 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 |
| 375.00 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 | 11-5 | 11-7 | 11-10 | 12-1 |
| 400.00 | 11-3 | 11-7 | 11-10 | 12-2 | 12-5 | 12-8 | 13-0 | 13-3 | 13-6 | 13-9 |
| 425.00 | 12-9 | 13-1 | 13-5 | 13-9 | 14-0 | 14-4 | 14-8 | 14-11 | 15-3 | 15-6 |
| 450.00 | 14-4 | 14-8 | 15-0 | 15-5 | 15-9 | 16-1 | 16-5 | 16-9 | 17-1 | 17-5 |
| 475.00 | 15-11 | 16-4 | 16-9 | 17-2 | 17-6 | 17-11 | 18-3 | 18-8 | 19-0 | 19-5 |
| 500.00 | 17-8 | 18-1 | 18-7 | 19-0 | 19-5 | 19-10 | 20-3 | 20-8 | 21-1 | 21-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS



OH813.33

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 5-11 |
| 300.00 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-1 |
| 325.00 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 |
| 350.00 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 | 9-6 | 9-8 |
| 375.00 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 | 11-1 |
| 400.00 | 11-0 | 11-2 | 11-4 | 11-6 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 |
| 425.00 | 12-5 | 12-7 | 12-10 | 13-0 | 13-3 | 13-5 | 13-8 | 13-10 | 14-1 | 14-3 |
| 450.00 | 13-11 | 14-2 | 14-4 | 14-7 | 14-10 | 15-1 | 15-4 | 15-6 | 15-9 | 16-0 |
| 475.00 | 15-6 | 15-9 | 16-0 | 16-3 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-10 |
| 500.00 | 17-2 | 17-5 | 17-9 | 18-1 | 18-4 | 18-7 | 18-11 | 19-2 | 19-5 | 19-9 |
| 525.00 | 18-11 | 19-3 | 19-7 | 19-11 | 20-3 | 20-6 | 20-10 | 21-2 | 21-5 | 21-9 |
| 550.00 | 20-9 | 21-2 | 21-6 | 21-10 | 22-2 | 22-6 | 22-11 | 23-3 | 23-7 | 23-10 |
| 575.00 | 22-8 | 23-1 | 23-6 | 23-11 | 24-3 | 24-8 | 25-0 | 25-5 | 25-9 | 26-1 |
| 600.00 | 24-9 | 25-2 | 25-7 | 26-0 | 26-5 | 26-10 | 27-3 | 27-8 | 28-0 | 28-5 |
| 625.00 | 26-10 | 27-4 | 27-9 | 28-3 | 28-8 | 29-1 | 29-7 | 30-0 | 30-5 | 30-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 275.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 300.00 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-3 |
| 325.00 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 |
| 350.00 | 8-8 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 |
| 375.00 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 |
| 400.00 | 11-3 | 11-6 | 11-8 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 |
| 425.00 | 12-9 | 12-11 | 13-2 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 | 14-5 | 14-7 |
| 450.00 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-8 | 15-11 | 16-2 | 16-4 |
| 475.00 | 15-11 | 16-2 | 16-5 | 16-9 | 17-0 | 17-3 | 17-6 | 17-9 | 18-0 | 18-3 |
| 500.00 | 17-8 | 17-11 | 18-3 | 18-6 | 18-10 | 19-1 | 19-5 | 19-8 | 19-11 | 20-2 |
| 525.00 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-4 | 21-8 | 22-0 | 22-3 |
| 550.00 | 21-4 | 21-9 | 22-1 | 22-5 | 22-9 | 23-1 | 23-6 | 23-10 | 24-2 | 24-5 |
| 575.00 | 23-4 | 23-9 | 24-2 | 24-6 | 24-11 | 25-3 | 25-8 | 26-0 | 26-5 | 26-9 |
| 600.00 | 25-5 | 25-10 | 26-3 | 26-8 | 27-1 | 27-6 | 27-11 | 28-4 | 28-9 | 29-1 |
| 625.00 | 27-7 | 28-1 | 28-6 | 29-0 | 29-5 | 29-11 | 30-4 | 30-9 | 31-2 | 31-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 0.62 | 2830 | 0.58 | 3000* |
| 25 | 0 | 0 | 0 | 1.134 | 0.54 | 2636 | 0.5 | 2849 |
| 30 | 0 | 0 | 0 | 1.134 | 0.61 | 2333 | 0.55 | 2573 |
| 40 | 0 | 0 | 0 | 1.134 | 0.77 | 1851 | 0.68 | 2092 |
| 50 | 0 | 0 | 0 | 1.134 | 0.93 | 1517 | 0.83 | 1718 |
| 60 | 0 | 0 | 0 | 1.134 | 1.1 | 1290 | 0.98 | 1446 |
| 70 | 0 | 0 | 0 | 1.134 | 1.26 | 1130 | 1.13 | 1250 |
| 80 | 0 | 0 | 0 | 1.134 | 1.4 | 1013 | 1.28 | 1106 |
| 90 | 0 | 0 | 0 | 1.134 | 1.54 | 923 | 1.42 | 998 |
| 100 | 0 | 0 | 0 | 1.134 | 1.66 | 852 | 1.55 | 914 |
| 110 | 0 | 0 | 0 | 1.134 | 1.78 | 795 | 1.68 | 846 |
| 120 | 0 | 0 | 0 | 1.134 | 1.86 | 764 | 1.79 | 791 |
| 130 | 0 | 0 | 0 | 1.134 | 1.92 | 741 | 1.91 | 745 |
| 167 | 0 | 0 | 0 | 1.134 | 2.12 | 670 | 2.11 | 674 |
| 212 | 0 | 0 | 0 | 1.134 | 2.35 | 603 | 2.34 | 607 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 2.58 | 2702 | 2.32 | 3000* |
| 25 | 0 | 0 | 0 | 1.134 | 2.44 | 2325 | 2.14 | 2652 |
| 30 | 0 | 0 | 0 | 1.134 | 2.57 | 2206 | 2.26 | 2510 |
| 40 | 0 | 0 | 0 | 1.134 | 2.83 | 2005 | 2.51 | 2264 |
| 50 | 0 | 0 | 0 | 1.134 | 3.08 | 1844 | 2.75 | 2063 |
| 60 | 0 | 0 | 0 | 1.134 | 3.32 | 1712 | 2.99 | 1899 |
| 70 | 0 | 0 | 0 | 1.134 | 3.54 | 1602 | 3.22 | 1763 |
| 80 | 0 | 0 | 0 | 1.134 | 3.76 | 1509 | 3.44 | 1649 |
| 90 | 0 | 0 | 0 | 1.134 | 3.97 | 1430 | 3.66 | 1552 |
| 100 | 0 | 0 | 0 | 1.134 | 4.17 | 1361 | 3.86 | 1469 |
| 110 | 0 | 0 | 0 | 1.134 | 4.37 | 1301 | 4.06 | 1397 |
| 120 | 0 | 0 | 0 | 1.134 | 4.55 | 1248 | 4.26 | 1334 |
| 130 | 0 | 0 | 0 | 1.134 | 4.73 | 1200 | 4.44 | 1278 |
| 167 | 0 | 0 | 0 | 1.134 | 5.15 | 1104 | 5.09 | 1118 |
| 212 | 0 | 0 | 0 | 1.134 | 5.54 | 1028 | 5.52 | 1030 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 5.67 | 2767 | 5.23 | 3000* |
| 25 | 0 | 0 | 0 | 1.134 | 5.5 | 2321 | 5 | 2555 |
| 30 | 0 | 0 | 0 | 1.134 | 5.66 | 2258 | 5.15 | 2479 |
| 40 | 0 | 0 | 0 | 1.134 | 5.96 | 2144 | 5.45 | 2342 |
| 50 | 0 | 0 | 0 | 1.134 | 6.25 | 2045 | 5.75 | 2223 |
| 60 | 0 | 0 | 0 | 1.134 | 6.53 | 1957 | 6.04 | 2117 |
| 70 | 0 | 0 | 0 | 1.134 | 6.81 | 1878 | 6.31 | 2024 |
| 80 | 0 | 0 | 0 | 1.134 | 7.07 | 1808 | 6.59 | 1941 |
| 90 | 0 | 0 | 0 | 1.134 | 7.33 | 1745 | 6.85 | 1866 |
| 100 | 0 | 0 | 0 | 1.134 | 7.58 | 1687 | 7.11 | 1799 |
| 110 | 0 | 0 | 0 | 1.134 | 7.82 | 1635 | 7.36 | 1738 |
| 120 | 0 | 0 | 0 | 1.134 | 8.06 | 1587 | 7.6 | 1683 |
| 130 | 0 | 0 | 0 | 1.134 | 8.29 | 1543 | 7.84 | 1632 |
| 167 | 0 | 0 | 0 | 1.134 | 9.05 | 1414 | 8.67 | 1476 |
| 212 | 0 | 0 | 0 | 1.134 | 9.55 | 1341 | 9.54 | 1342 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 9.87 | 2829 | 9.3 | 3000* |
| 25 | 0 | 0 | 0 | 1.134 | 9.69 | 2347 | 9.05 | 2511 |
| 30 | 0 | 0 | 0 | 1.134 | 9.85 | 2308 | 9.22 | 2465 |
| 40 | 0 | 0 | 0 | 1.134 | 10.18 | 2234 | 9.55 | 2380 |
| 50 | 0 | 0 | 0 | 1.134 | 10.49 | 2167 | 9.87 | 2303 |
| 60 | 0 | 0 | 0 | 1.134 | 10.81 | 2105 | 10.19 | 2232 |
| 70 | 0 | 0 | 0 | 1.134 | 11.11 | 2048 | 10.5 | 2167 |
| 80 | 0 | 0 | 0 | 1.134 | 11.41 | 1995 | 10.8 | 2107 |
| 90 | 0 | 0 | 0 | 1.134 | 11.7 | 1946 | 11.09 | 2051 |
| 100 | 0 | 0 | 0 | 1.134 | 11.98 | 1900 | 11.38 | 1999 |
| 110 | 0 | 0 | 0 | 1.134 | 12.26 | 1857 | 11.67 | 1951 |
| 120 | 0 | 0 | 0 | 1.134 | 12.53 | 1817 | 11.95 | 1905 |
| 130 | 0 | 0 | 0 | 1.134 | 12.8 | 1779 | 12.22 | 1863 |
| 167 | 0 | 0 | 0 | 1.134 | 13.75 | 1657 | 13.19 | 1727 |
| 212 | 0 | 0 | 0 | 1.134 | 14.48 | 1574 | 14.29 | 1595 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.392 | 15.2 | 2873 | 14.55 | 3000* |
| 25 | 0 | 0 | 0 | 1.134 | 15.01 | 2370 | 14.29 | 2488 |
| 30 | 0 | 0 | 0 | 1.134 | 15.18 | 2343 | 14.47 | 2458 |
| 40 | 0 | 0 | 0 | 1.134 | 15.52 | 2292 | 14.81 | 2401 |
| 50 | 0 | 0 | 0 | 1.134 | 15.86 | 2244 | 15.15 | 2348 |
| 60 | 0 | 0 | 0 | 1.134 | 16.18 | 2199 | 15.48 | 2298 |
| 70 | 0 | 0 | 0 | 1.134 | 16.51 | 2156 | 15.81 | 2250 |
| 80 | 0 | 0 | 0 | 1.134 | 16.83 | 2116 | 16.13 | 2206 |
| 90 | 0 | 0 | 0 | 1.134 | 17.14 | 2077 | 16.45 | 2164 |
| 100 | 0 | 0 | 0 | 1.134 | 17.45 | 2041 | 16.76 | 2124 |
| 110 | 0 | 0 | 0 | 1.134 | 17.75 | 2007 | 17.07 | 2086 |
| 120 | 0 | 0 | 0 | 1.134 | 18.05 | 1974 | 17.37 | 2050 |
| 130 | 0 | 0 | 0 | 1.134 | 18.34 | 1942 | 17.67 | 2016 |
| 167 | 0 | 0 | 0 | 1.134 | 19.4 | 1838 | 18.73 | 1902 |
| 212 | 0 | 0 | 0 | 1.134 | 20.38 | 1750 | 19.96 | 1786 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 100.00 | 0-5 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 |
| 125.00 | 0-8 | 0-10 | 1-1 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 |
| 150.00 | 1-0 | 1-3 | 1-6 | 1-10 | 2-2 | 2-7 | 2-11 | 3-2 | 3-6 | 3-9 |
| 175.00 | 1-5 | 1-8 | 2-1 | 2-6 | 3-0 | 3-6 | 3-11 | 4-4 | 4-9 | 5-2 |
| 200.00 | 1-10 | 2-2 | 2-9 | 3-4 | 3-11 | 4-7 | 5-2 | 5-8 | 6-3 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 125.00 | 0-9 | 0-11 | 1-2 | 1-6 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 |
| 150.00 | 1-1 | 1-4 | 1-9 | 2-1 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-0 |
| 175.00 | 1-5 | 1-10 | 2-4 | 2-10 | 3-4 | 3-10 | 4-4 | 4-9 | 5-1 | 5-6 |
| 200.00 | 1-11 | 2-5 | 3-1 | 3-9 | 4-5 | 5-0 | 5-7 | 6-2 | 6-8 | 7-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.38

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 |
| 175.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 |
| 200.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 |
| 225.00 | 2-7 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 |
| 250.00 | 3-2 | 3-6 | 3-11 | 4-4 | 4-8 | 5-0 | 5-5 | 5-9 | 6-0 | 6-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 |
| 150.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 175.00 | 1-9 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 |
| 200.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 225.00 | 2-11 | 3-3 | 3-7 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 |
| 250.00 | 3-7 | 4-0 | 4-5 | 4-10 | 5-2 | 5-6 | 5-11 | 6-2 | 6-6 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.39

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 |
| 175.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 200.00 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 |
| 225.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-2 |
| 250.00 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 |
| 275.00 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-2 |
| 300.00 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 325.00 | 5-8 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-9 | 8-0 | 8-4 | 8-8 |
| 350.00 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-7 | 9-0 | 9-4 | 9-8 | 10-0 |
| 375.00 | 7-7 | 8-1 | 8-6 | 9-0 | 9-5 | 9-10 | 10-4 | 10-8 | 11-1 | 11-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 175.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-6 |
| 225.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 |
| 250.00 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 |
| 275.00 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 |
| 300.00 | 5-4 | 5-8 | 6-0 | 6-3 | 6-6 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 |
| 325.00 | 6-3 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-7 | 8-11 | 9-2 |
| 350.00 | 7-3 | 7-8 | 8-1 | 8-6 | 8-11 | 9-3 | 9-8 | 10-0 | 10-4 | 10-8 |
| 375.00 | 8-4 | 8-10 | 9-4 | 9-9 | 10-3 | 10-8 | 11-1 | 11-5 | 11-10 | 12-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS



OH813.40

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 225.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 250.00 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 |
| 275.00 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 | 5-6 |
| 300.00 | 5-0 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 |
| 325.00 | 5-10 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 |
| 350.00 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-6 | 8-9 | 8-11 |
| 375.00 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 |
| 400.00 | 8-11 | 9-3 | 9-7 | 9-10 | 10-2 | 10-6 | 10-10 | 11-1 | 11-5 | 11-8 |
| 425.00 | 10-0 | 10-5 | 10-9 | 11-2 | 11-6 | 11-10 | 12-2 | 12-6 | 12-10 | 13-2 |
| 450.00 | 11-3 | 11-8 | 12-1 | 12-6 | 12-11 | 13-3 | 13-8 | 14-1 | 14-5 | 14-9 |
| 475.00 | 12-6 | 13-0 | 13-6 | 13-11 | 14-4 | 14-10 | 15-3 | 15-8 | 16-1 | 16-6 |
| 500.00 | 13-11 | 14-5 | 14-11 | 15-5 | 15-11 | 16-5 | 16-11 | 17-4 | 17-10 | 18-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 225.00 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 |
| 250.00 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 |
| 275.00 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 |
| 300.00 | 5-4 | 5-6 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 |
| 325.00 | 6-3 | 6-6 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-9 | 7-11 | 8-1 |
| 350.00 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 | 9-5 |
| 375.00 | 8-4 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 |
| 400.00 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 | 11-1 | 11-5 | 11-8 | 12-0 | 12-3 |
| 425.00 | 10-9 | 11-1 | 11-6 | 11-10 | 12-2 | 12-7 | 12-11 | 13-2 | 13-6 | 13-10 |
| 450.00 | 12-1 | 12-6 | 12-11 | 13-3 | 13-8 | 14-1 | 14-5 | 14-10 | 15-2 | 15-6 |
| 475.00 | 13-5 | 13-11 | 14-4 | 14-10 | 15-3 | 15-8 | 16-1 | 16-6 | 16-11 | 17-4 |
| 500.00 | 14-11 | 15-5 | 15-11 | 16-5 | 16-11 | 17-4 | 17-10 | 18-3 | 18-9 | 19-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.41

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 275.00 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 |
| 300.00 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 |
| 325.00 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 |
| 350.00 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-2 | 8-4 |
| 375.00 | 7-11 | 8-2 | 8-4 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 |
| 400.00 | 9-0 | 9-3 | 9-6 | 9-8 | 9-11 | 10-1 | 10-4 | 10-6 | 10-9 | 10-11 |
| 425.00 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 | 11-5 | 11-8 | 11-11 | 12-1 | 12-4 |
| 450.00 | 11-5 | 11-9 | 12-0 | 12-3 | 12-6 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 |
| 475.00 | 12-9 | 13-1 | 13-4 | 13-8 | 14-0 | 14-3 | 14-7 | 14-10 | 15-1 | 15-5 |
| 500.00 | 14-1 | 14-6 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-5 | 16-9 | 17-1 |
| 525.00 | 15-7 | 15-11 | 16-4 | 16-8 | 17-1 | 17-5 | 17-9 | 18-2 | 18-6 | 18-10 |
| 550.00 | 17-1 | 17-6 | 17-11 | 18-4 | 18-9 | 19-2 | 19-6 | 19-11 | 20-3 | 20-8 |
| 575.00 | 18-8 | 19-2 | 19-7 | 20-1 | 20-6 | 20-11 | 21-4 | 21-9 | 22-2 | 22-7 |
| 600.00 | 20-4 | 20-10 | 21-4 | 21-10 | 22-4 | 22-9 | 23-3 | 23-8 | 24-2 | 24-7 |
| 625.00 | 22-1 | 22-7 | 23-2 | 23-8 | 24-3 | 24-9 | 25-3 | 25-9 | 26-3 | 26-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 275.00 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 300.00 | 5-4 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-5 |
| 325.00 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 |
| 350.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 |
| 375.00 | 8-4 | 8-6 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 |
| 400.00 | 9-6 | 9-9 | 9-11 | 10-2 | 10-4 | 10-7 | 10-9 | 11-0 | 11-2 | 11-4 |
| 425.00 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-7 | 12-10 |
| 450.00 | 12-0 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-11 | 14-2 | 14-4 |
| 475.00 | 13-5 | 13-8 | 14-0 | 14-4 | 14-7 | 14-11 | 15-2 | 15-6 | 15-9 | 16-0 |
| 500.00 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-6 | 16-10 | 17-2 | 17-5 | 17-9 |
| 525.00 | 16-4 | 16-9 | 17-1 | 17-6 | 17-10 | 18-2 | 18-7 | 18-11 | 19-3 | 19-7 |
| 550.00 | 17-11 | 18-4 | 18-9 | 19-2 | 19-7 | 20-0 | 20-4 | 20-9 | 21-1 | 21-6 |
| 575.00 | 19-7 | 20-1 | 20-6 | 21-0 | 21-5 | 21-10 | 22-3 | 22-8 | 23-1 | 23-6 |
| 600.00 | 21-4 | 21-10 | 22-4 | 22-10 | 23-4 | 23-9 | 24-3 | 24-8 | 25-2 | 25-7 |
| 625.00 | 23-2 | 23-9 | 24-3 | 24-10 | 25-4 | 25-10 | 26-4 | 26-10 | 27-3 | 27-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 3.09 | 1000 | 3.09 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.04 | 468 | 3.03 | 470 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.26 | 437 | 3.25 | 439 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.32 | 428 | 3.31 | 430 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.39 | 420 | 3.38 | 422 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.45 | 413 | 3.44 | 414 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.52 | 405 | 3.50 | 406 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.57 | 400 | 3.57 | 400 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.61 | 394 | 3.61 | 394 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.65 | 390 | 3.65 | 390 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.69 | 387 | 3.69 | 387 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.72 | 383 | 3.72 | 383 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.76 | 380 | 3.76 | 380 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.88 | 367 | 3.88 | 367 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.03 | 354 | 4.03 | 354 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 12.50 | 1000 | 12.50 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.45 | 463 | 12.44 | 463 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.67 | 455 | 12.66 | 455 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.74 | 452 | 12.73 | 453 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.81 | 450 | 12.80 | 450 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.88 | 448 | 12.87 | 448 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.95 | 445 | 12.94 | 446 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.01 | 443 | 13.01 | 443 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.07 | 441 | 13.07 | 441 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.12 | 440 | 13.12 | 440 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.16 | 438 | 13.16 | 438 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.20 | 437 | 13.20 | 437 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.24 | 436 | 13.24 | 436 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.39 | 431 | 13.39 | 431 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.57 | 425 | 13.57 | 425 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 28.70 | 1000 | 28.70 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 28.65 | 462 | 28.64 | 462 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 28.88 | 458 | 28.87 | 458 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 28.95 | 457 | 28.94 | 457 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.02 | 456 | 29.01 | 456 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.09 | 455 | 29.08 | 455 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.16 | 454 | 29.15 | 454 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.23 | 453 | 29.22 | 453 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.29 | 452 | 29.29 | 452 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.33 | 452 | 29.33 | 452 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.38 | 451 | 29.38 | 451 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.42 | 450 | 29.42 | 450 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.46 | 450 | 29.46 | 450 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.62 | 448 | 29.62 | 448 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.81 | 445 | 29.81 | 445 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 52.65 | 1000 | 52.65 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 52.60 | 461 | 52.59 | 461 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 52.82 | 459 | 52.81 | 460 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 52.89 | 459 | 52.88 | 459 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 52.96 | 458 | 52.95 | 458 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.04 | 458 | 53.02 | 458 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.11 | 457 | 53.09 | 457 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.17 | 457 | 53.16 | 457 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.23 | 456 | 53.23 | 456 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.28 | 456 | 53.28 | 456 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.33 | 456 | 53.33 | 456 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.37 | 455 | 53.37 | 455 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.41 | 455 | 53.41 | 455 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.57 | 454 | 53.57 | 454 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.76 | 453 | 53.76 | 453 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 86.11 | 1000 | 86.11 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.06 | 461 | 86.05 | 461 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.28 | 460 | 86.27 | 460 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.35 | 460 | 86.34 | 460 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.42 | 459 | 86.41 | 460 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.49 | 459 | 86.48 | 459 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.57 | 459 | 86.55 | 459 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.63 | 459 | 86.62 | 459 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.69 | 458 | 86.69 | 458 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.74 | 458 | 86.74 | 458 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.79 | 458 | 86.79 | 458 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.83 | 458 | 86.83 | 458 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 86.87 | 458 | 86.87 | 458 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 87.03 | 457 | 87.03 | 457 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 87.22 | 456 | 87.22 | 456 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 |
| 100.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 |
| 125.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 |
| 150.00 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 |
| 175.00 | 9-9 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 | 11-0 | 11-1 | 11-3 | 11-4 |
| 200.00 | 12-9 | 13-0 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-6 | 14-8 | 14-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 |
| 100.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 |
| 125.00 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 |
| 150.00 | 7-2 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 |
| 175.00 | 9-9 | 10-0 | 10-2 | 10-5 | 10-7 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 |
| 200.00 | 12-10 | 13-1 | 13-4 | 13-7 | 13-11 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.46

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 |
| 125.00 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-1 |
| 150.00 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 |
| 175.00 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 |
| 200.00 | 12-7 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 |
| 225.00 | 15-11 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 |
| 250.00 | 19-9 | 19-10 | 19-11 | 20-1 | 20-2 | 20-3 | 20-5 | 20-6 | 20-7 | 20-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 |
| 125.00 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-1 |
| 150.00 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 |
| 175.00 | 9-8 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 |
| 200.00 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 |
| 225.00 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 |
| 250.00 | 19-9 | 19-10 | 20-0 | 20-1 | 20-2 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.47

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-3 | 7-3 |
| 175.00 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 |
| 200.00 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 |
| 225.00 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 |
| 250.00 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 |
| 275.00 | 24-2 | 24-3 | 24-3 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-7 | 24-8 |
| 300.00 | 28-10 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 | 29-5 |
| 325.00 | 33-10 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-7 |
| 350.00 | 39-4 | 39-6 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 |
| 375.00 | 45-4 | 45-5 | 45-6 | 45-8 | 45-9 | 45-10 | 46-0 | 46-1 | 46-2 | 46-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-3 | 7-3 |
| 175.00 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 |
| 200.00 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 |
| 225.00 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 |
| 250.00 | 19-11 | 20-0 | 20-0 | 20-1 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 |
| 275.00 | 24-2 | 24-3 | 24-3 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-7 | 24-8 |
| 300.00 | 28-10 | 28-11 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 | 29-5 |
| 325.00 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-4 | 34-5 | 34-6 | 34-7 |
| 350.00 | 39-5 | 39-6 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 |
| 375.00 | 45-4 | 45-5 | 45-6 | 45-8 | 45-9 | 45-11 | 46-0 | 46-1 | 46-2 | 46-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 13-0 | 13-0 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-1 | 13-1 |
| 225.00 | 16-5 | 16-6 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-7 | 16-7 |
| 250.00 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-6 | 20-6 | 20-6 | 20-6 | 20-7 |
| 275.00 | 24-8 | 24-8 | 24-8 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 |
| 300.00 | 29-5 | 29-5 | 29-6 | 29-6 | 29-6 | 29-7 | 29-7 | 29-8 | 29-8 | 29-8 |
| 325.00 | 34-7 | 34-7 | 34-8 | 34-8 | 34-9 | 34-9 | 34-10 | 34-11 | 34-11 | 34-11 |
| 350.00 | 40-2 | 40-3 | 40-3 | 40-4 | 40-5 | 40-5 | 40-6 | 40-7 | 40-7 | 40-7 |
| 375.00 | 46-3 | 46-4 | 46-4 | 46-5 | 46-6 | 46-6 | 46-7 | 46-8 | 46-8 | 46-9 |
| 400.00 | 52-9 | 52-10 | 52-11 | 52-11 | 53-0 | 53-1 | 53-2 | 53-3 | 53-3 | 53-4 |
| 425.00 | 59-9 | 59-9 | 59-10 | 59-11 | 60-0 | 60-1 | 60-2 | 60-3 | 60-4 | 60-5 |
| 450.00 | 67-2 | 67-3 | 67-4 | 67-5 | 67-6 | 67-7 | 67-8 | 67-9 | 67-10 | 67-11 |
| 475.00 | 75-1 | 75-2 | 75-3 | 75-4 | 75-6 | 75-7 | 75-8 | 75-9 | 75-10 | 75-11 |
| 500.00 | 83-5 | 83-7 | 83-8 | 83-9 | 83-11 | 84-0 | 84-1 | 84-3 | 84-4 | 84-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 13-0 | 13-0 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-1 | 13-1 |
| 225.00 | 16-5 | 16-6 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-7 | 16-7 |
| 250.00 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-6 | 20-6 | 20-6 | 20-6 | 20-7 |
| 275.00 | 24-8 | 24-8 | 24-9 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 |
| 300.00 | 29-5 | 29-5 | 29-6 | 29-6 | 29-7 | 29-7 | 29-7 | 29-8 | 29-8 | 29-8 |
| 325.00 | 34-7 | 34-7 | 34-8 | 34-8 | 34-9 | 34-10 | 34-10 | 34-11 | 34-11 | 34-11 |
| 350.00 | 40-2 | 40-3 | 40-3 | 40-4 | 40-5 | 40-5 | 40-6 | 40-7 | 40-7 | 40-7 |
| 375.00 | 46-3 | 46-4 | 46-4 | 46-5 | 46-6 | 46-7 | 46-7 | 46-8 | 46-8 | 46-9 |
| 400.00 | 52-9 | 52-10 | 52-11 | 53-0 | 53-0 | 53-1 | 53-2 | 53-3 | 53-3 | 53-4 |
| 425.00 | 59-9 | 59-10 | 59-11 | 60-0 | 60-1 | 60-1 | 60-2 | 60-3 | 60-4 | 60-5 |
| 450.00 | 67-2 | 67-3 | 67-4 | 67-5 | 67-6 | 67-7 | 67-8 | 67-9 | 67-10 | 67-11 |
| 475.00 | 75-1 | 75-2 | 75-3 | 75-4 | 75-6 | 75-7 | 75-8 | 75-9 | 75-10 | 75-11 |
| 500.00 | 83-5 | 83-7 | 83-8 | 83-10 | 83-11 | 84-0 | 84-2 | 84-3 | 84-4 | 84-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS



OH813.49

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 21-0 | 21-0 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-1 | 21-1 |
| 275.00 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 | 25-6 | 25-6 | 25-7 | 25-7 | 25-7 |
| 300.00 | 30-4 | 30-4 | 30-4 | 30-5 | 30-5 | 30-5 | 30-5 | 30-6 | 30-6 | 30-6 |
| 325.00 | 35-8 | 35-8 | 35-9 | 35-9 | 35-9 | 35-10 | 35-10 | 35-10 | 35-10 | 35-11 |
| 350.00 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 | 41-7 | 41-8 | 41-8 | 41-9 | 41-9 |
| 375.00 | 47-9 | 47-9 | 47-10 | 47-10 | 47-10 | 47-11 | 47-11 | 48-0 | 48-0 | 48-0 |
| 400.00 | 54-5 | 54-6 | 54-6 | 54-7 | 54-7 | 54-8 | 54-8 | 54-9 | 54-9 | 54-10 |
| 425.00 | 61-8 | 61-8 | 61-9 | 61-10 | 61-10 | 61-11 | 61-11 | 62-0 | 62-0 | 62-1 |
| 450.00 | 69-4 | 69-5 | 69-5 | 69-6 | 69-7 | 69-7 | 69-8 | 69-9 | 69-9 | 69-10 |
| 475.00 | 77-6 | 77-7 | 77-8 | 77-9 | 77-9 | 77-10 | 77-11 | 78-0 | 78-0 | 78-1 |
| 500.00 | 86-2 | 86-3 | 86-4 | 86-5 | 86-6 | 86-7 | 86-7 | 86-8 | 86-9 | 86-9 |
| 525.00 | 95-5 | 95-6 | 95-7 | 95-8 | 95-8 | 95-9 | 95-10 | 95-11 | 96-0 | 96-1 |
| 550.00 | 105-1 | 105-2 | 105-3 | 105-4 | 105-5 | 105-7 | 105-8 | 105-9 | 105-9 | 105-10 |
| 575.00 | 115-4 | 115-5 | 115-7 | 115-8 | 115-9 | 115-10 | 115-11 | 116-0 | 116-1 | 116-2 |
| 600.00 | 126-2 | 126-3 | 126-4 | 126-6 | 126-7 | 126-8 | 126-9 | 126-11 | 126-11 | 127-0 |
| 625.00 | 137-6 | 137-7 | 137-9 | 137-10 | 137-11 | 138-1 | 138-2 | 138-4 | 138-5 | 138-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 21-0 | 21-0 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-1 | 21-1 |
| 275.00 | 25-5 | 25-5 | 25-6 | 25-6 | 25-6 | 25-6 | 25-6 | 25-7 | 25-7 | 25-7 |
| 300.00 | 30-4 | 30-4 | 30-4 | 30-5 | 30-5 | 30-5 | 30-6 | 30-6 | 30-6 | 30-6 |
| 325.00 | 35-8 | 35-8 | 35-9 | 35-9 | 35-9 | 35-10 | 35-10 | 35-10 | 35-10 | 35-11 |
| 350.00 | 41-6 | 41-6 | 41-6 | 41-7 | 41-7 | 41-8 | 41-8 | 41-8 | 41-9 | 41-9 |
| 375.00 | 47-9 | 47-9 | 47-10 | 47-10 | 47-11 | 47-11 | 47-11 | 48-0 | 48-0 | 48-0 |
| 400.00 | 54-5 | 54-6 | 54-6 | 54-7 | 54-8 | 54-8 | 54-9 | 54-9 | 54-9 | 54-10 |
| 425.00 | 61-8 | 61-9 | 61-9 | 61-10 | 61-10 | 61-11 | 61-11 | 62-0 | 62-0 | 62-1 |
| 450.00 | 69-4 | 69-5 | 69-6 | 69-6 | 69-7 | 69-8 | 69-8 | 69-9 | 69-9 | 69-10 |
| 475.00 | 77-6 | 77-7 | 77-8 | 77-9 | 77-9 | 77-10 | 77-11 | 78-0 | 78-0 | 78-1 |
| 500.00 | 86-3 | 86-3 | 86-4 | 86-5 | 86-6 | 86-7 | 86-8 | 86-8 | 86-9 | 86-9 |
| 525.00 | 95-5 | 95-6 | 95-7 | 95-8 | 95-9 | 95-10 | 95-10 | 95-11 | 96-0 | 96-1 |
| 550.00 | 105-1 | 105-2 | 105-4 | 105-5 | 105-6 | 105-7 | 105-8 | 105-9 | 105-9 | 105-10 |
| 575.00 | 115-4 | 115-6 | 115-7 | 115-8 | 115-9 | 115-10 | 115-11 | 116-0 | 116-1 | 116-2 |
| 600.00 | 126-2 | 126-3 | 126-4 | 126-6 | 126-7 | 126-8 | 126-9 | 126-11 | 126-11 | 127-0 |
| 625.00 | 137-6 | 137-7 | 137-9 | 137-10 | 138-0 | 138-1 | 138-2 | 138-4 | 138-5 | 138-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 2.05 | 1500 | 2.05 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.96 | 724 | 1.94 | 733 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.27 | 627 | 2.24 | 633 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.36 | 602 | 2.34 | 608 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.45 | 580 | 2.43 | 585 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.54 | 560 | 2.51 | 565 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.62 | 542 | 2.60 | 547 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.70 | 526 | 2.68 | 531 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.77 | 514 | 2.76 | 515 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.83 | 502 | 2.83 | 502 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.88 | 495 | 2.88 | 495 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.92 | 487 | 2.92 | 487 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.96 | 480 | 2.96 | 480 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.12 | 457 | 3.12 | 457 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.30 | 432 | 3.30 | 432 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 8.26 | 1500 | 8.26 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.16 | 699 | 8.14 | 701 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.49 | 673 | 8.46 | 675 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.59 | 665 | 8.56 | 667 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.69 | 657 | 8.67 | 659 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.79 | 650 | 8.77 | 652 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.89 | 643 | 8.87 | 645 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.99 | 636 | 8.96 | 638 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.09 | 629 | 9.06 | 631 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.18 | 623 | 9.16 | 624 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.25 | 618 | 9.25 | 618 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.32 | 614 | 9.32 | 614 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.38 | 610 | 9.38 | 610 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.58 | 597 | 9.58 | 597 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.83 | 583 | 9.83 | 583 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 18.75 | 1500 | 18.75 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 18.65 | 695 | 18.63 | 696 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 18.97 | 683 | 18.95 | 684 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.08 | 679 | 19.06 | 680 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.19 | 676 | 19.16 | 677 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.29 | 672 | 19.26 | 673 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.39 | 669 | 19.37 | 670 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.50 | 665 | 19.47 | 666 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.60 | 662 | 19.57 | 663 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.70 | 659 | 19.67 | 660 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.77 | 656 | 19.77 | 656 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.87 | 653 | 19.87 | 653 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.93 | 651 | 19.93 | 651 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.15 | 644 | 20.15 | 644 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.42 | 636 | 20.42 | 636 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 33.75 | 1500 | 33.75 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 33.65 | 693 | 33.63 | 694 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 33.98 | 687 | 33.96 | 687 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.09 | 685 | 34.06 | 685 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.19 | 683 | 34.17 | 683 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.30 | 681 | 34.27 | 681 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.40 | 679 | 34.38 | 679 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.51 | 677 | 34.48 | 677 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.61 | 675 | 34.58 | 675 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.72 | 673 | 34.69 | 674 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.79 | 672 | 34.79 | 672 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.89 | 670 | 34.89 | 670 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.96 | 669 | 34.96 | 669 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.19 | 665 | 35.19 | 665 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.47 | 660 | 35.47 | 660 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 53.64 | 1500 | 53.64 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.54 | 692 | 53.52 | 693 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.87 | 688 | 53.85 | 689 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 53.98 | 687 | 53.95 | 688 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.08 | 686 | 54.06 | 686 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.19 | 685 | 54.16 | 685 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.29 | 684 | 54.27 | 684 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.40 | 682 | 54.37 | 683 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.51 | 681 | 54.48 | 682 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.61 | 680 | 54.58 | 680 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.69 | 679 | 54.69 | 679 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.79 | 678 | 54.79 | 678 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.86 | 677 | 54.86 | 677 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.10 | 675 | 55.10 | 675 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.38 | 671 | 55.38 | 671 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 100.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 125.00 | 3-4 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 |
| 150.00 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-3 | 6-5 | 6-6 |
| 175.00 | 6-7 | 6-11 | 7-2 | 7-5 | 7-9 | 8-0 | 8-3 | 8-6 | 8-8 | 8-10 |
| 200.00 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 | 10-5 | 10-9 | 11-1 | 11-4 | 11-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 100.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 125.00 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 |
| 150.00 | 4-11 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-6 |
| 175.00 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 | 8-0 | 8-4 | 8-6 | 8-8 | 8-10 |
| 200.00 | 8-8 | 9-1 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 | 11-1 | 11-4 | 11-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.54

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 |
| 125.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 |
| 150.00 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 |
| 175.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 200.00 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 |
| 225.00 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-9 |
| 250.00 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 |
| 125.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 |
| 150.00 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 |
| 175.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 |
| 200.00 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 |
| 225.00 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 |
| 250.00 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 | 14-4 | 14-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.55

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 |
| 175.00 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 200.00 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 |
| 225.00 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 |
| 250.00 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-8 |
| 275.00 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 |
| 300.00 | 18-10 | 18-11 | 19-1 | 19-2 | 19-3 | 19-4 | 19-6 | 19-7 | 19-8 | 19-9 |
| 325.00 | 22-2 | 22-3 | 22-5 | 22-6 | 22-8 | 22-9 | 22-10 | 23-0 | 23-1 | 23-3 |
| 350.00 | 25-8 | 25-10 | 26-0 | 26-2 | 26-3 | 26-5 | 26-7 | 26-8 | 26-10 | 27-0 |
| 375.00 | 29-6 | 29-8 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 |
| 175.00 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 200.00 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 |
| 225.00 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 | 11-1 |
| 250.00 | 13-1 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-8 |
| 275.00 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 |
| 300.00 | 18-10 | 19-0 | 19-1 | 19-2 | 19-3 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 |
| 325.00 | 22-2 | 22-3 | 22-5 | 22-6 | 22-8 | 22-9 | 22-11 | 23-0 | 23-2 | 23-3 |
| 350.00 | 25-9 | 25-11 | 26-0 | 26-2 | 26-4 | 26-5 | 26-7 | 26-9 | 26-10 | 27-0 |
| 375.00 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 |
| 225.00 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 |
| 250.00 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 |
| 275.00 | 15-11 | 16-0 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 |
| 300.00 | 19-0 | 19-0 | 19-1 | 19-2 | 19-2 | 19-3 | 19-4 | 19-4 | 19-5 | 19-6 |
| 325.00 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 |
| 350.00 | 25-10 | 25-11 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 |
| 375.00 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-7 |
| 400.00 | 33-10 | 33-11 | 34-1 | 34-2 | 34-3 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 |
| 425.00 | 38-3 | 38-5 | 38-6 | 38-7 | 38-9 | 38-10 | 39-0 | 39-1 | 39-3 | 39-4 |
| 450.00 | 42-11 | 43-1 | 43-3 | 43-4 | 43-6 | 43-7 | 43-9 | 43-11 | 44-0 | 44-2 |
| 475.00 | 47-11 | 48-1 | 48-3 | 48-4 | 48-6 | 48-8 | 48-10 | 49-0 | 49-1 | 49-3 |
| 500.00 | 53-2 | 53-4 | 53-6 | 53-8 | 53-10 | 54-0 | 54-2 | 54-4 | 54-6 | 54-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 |
| 225.00 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 |
| 250.00 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 |
| 275.00 | 15-11 | 16-0 | 16-0 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 |
| 300.00 | 19-0 | 19-0 | 19-1 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 | 19-5 | 19-6 |
| 325.00 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-8 | 22-9 | 22-10 | 22-11 |
| 350.00 | 25-11 | 25-11 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 |
| 375.00 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 | 30-4 | 30-5 | 30-6 | 30-7 |
| 400.00 | 33-10 | 34-0 | 34-1 | 34-2 | 34-4 | 34-5 | 34-6 | 34-7 | 34-9 | 34-10 |
| 425.00 | 38-3 | 38-5 | 38-6 | 38-8 | 38-9 | 38-11 | 39-0 | 39-1 | 39-3 | 39-4 |
| 450.00 | 43-0 | 43-1 | 43-3 | 43-5 | 43-6 | 43-8 | 43-9 | 43-11 | 44-1 | 44-2 |
| 475.00 | 47-11 | 48-1 | 48-3 | 48-5 | 48-7 | 48-8 | 48-10 | 49-0 | 49-2 | 49-3 |
| 500.00 | 53-2 | 53-5 | 53-7 | 53-9 | 53-11 | 54-1 | 54-3 | 54-5 | 54-7 | 54-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 |
| 275.00 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 | 16-4 |
| 300.00 | 19-2 | 19-2 | 19-3 | 19-3 | 19-4 | 19-4 | 19-5 | 19-5 | 19-5 | 19-6 |
| 325.00 | 22-6 | 22-7 | 22-7 | 22-8 | 22-8 | 22-9 | 22-9 | 22-10 | 22-10 | 22-11 |
| 350.00 | 26-2 | 26-2 | 26-3 | 26-3 | 26-4 | 26-5 | 26-5 | 26-6 | 26-6 | 26-7 |
| 375.00 | 30-0 | 30-1 | 30-2 | 30-2 | 30-3 | 30-4 | 30-5 | 30-5 | 30-6 | 30-7 |
| 400.00 | 34-3 | 34-3 | 34-4 | 34-5 | 34-6 | 34-7 | 34-7 | 34-8 | 34-9 | 34-10 |
| 425.00 | 38-8 | 38-9 | 38-10 | 38-11 | 39-0 | 39-1 | 39-1 | 39-2 | 39-3 | 39-4 |
| 450.00 | 43-5 | 43-6 | 43-7 | 43-8 | 43-9 | 43-10 | 43-11 | 44-0 | 44-1 | 44-2 |
| 475.00 | 48-5 | 48-6 | 48-7 | 48-9 | 48-10 | 48-11 | 49-0 | 49-1 | 49-2 | 49-3 |
| 500.00 | 53-9 | 53-10 | 53-11 | 54-1 | 54-2 | 54-3 | 54-4 | 54-6 | 54-7 | 54-8 |
| 525.00 | 59-4 | 59-5 | 59-7 | 59-8 | 59-10 | 59-11 | 60-0 | 60-2 | 60-3 | 60-5 |
| 550.00 | 65-3 | 65-4 | 65-6 | 65-7 | 65-9 | 65-10 | 66-0 | 66-2 | 66-3 | 66-5 |
| 575.00 | 71-5 | 71-7 | 71-8 | 71-10 | 72-0 | 72-1 | 72-3 | 72-5 | 72-7 | 72-8 |
| 600.00 | 77-11 | 78-1 | 78-2 | 78-4 | 78-6 | 78-8 | 78-10 | 79-0 | 79-2 | 79-3 |
| 625.00 | 84-8 | 84-10 | 85-0 | 85-2 | 85-4 | 85-6 | 85-8 | 85-10 | 86-0 | 86-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 |
| 275.00 | 16-1 | 16-2 | 16-2 | 16-2 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 | 16-4 |
| 300.00 | 19-2 | 19-2 | 19-3 | 19-3 | 19-4 | 19-4 | 19-5 | 19-5 | 19-6 | 19-6 |
| 325.00 | 22-6 | 22-7 | 22-7 | 22-8 | 22-8 | 22-9 | 22-9 | 22-10 | 22-10 | 22-11 |
| 350.00 | 26-2 | 26-2 | 26-3 | 26-4 | 26-4 | 26-5 | 26-5 | 26-6 | 26-7 | 26-7 |
| 375.00 | 30-1 | 30-1 | 30-2 | 30-3 | 30-3 | 30-4 | 30-5 | 30-5 | 30-6 | 30-7 |
| 400.00 | 34-3 | 34-3 | 34-4 | 34-5 | 34-6 | 34-7 | 34-8 | 34-8 | 34-9 | 34-10 |
| 425.00 | 38-8 | 38-9 | 38-10 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 | 39-3 | 39-4 |
| 450.00 | 43-5 | 43-6 | 43-7 | 43-8 | 43-9 | 43-10 | 43-11 | 44-0 | 44-1 | 44-2 |
| 475.00 | 48-5 | 48-7 | 48-8 | 48-9 | 48-10 | 48-11 | 49-0 | 49-1 | 49-3 | 49-3 |
| 500.00 | 53-9 | 53-10 | 54-0 | 54-1 | 54-2 | 54-4 | 54-5 | 54-6 | 54-7 | 54-8 |
| 525.00 | 59-4 | 59-6 | 59-7 | 59-9 | 59-10 | 59-11 | 60-1 | 60-2 | 60-4 | 60-5 |
| 550.00 | 65-3 | 65-5 | 65-6 | 65-8 | 65-9 | 65-11 | 66-0 | 66-2 | 66-4 | 66-5 |
| 575.00 | 71-5 | 71-7 | 71-9 | 71-10 | 72-0 | 72-2 | 72-4 | 72-5 | 72-7 | 72-8 |
| 600.00 | 77-11 | 78-1 | 78-3 | 78-5 | 78-7 | 78-8 | 78-10 | 79-0 | 79-2 | 79-4 |
| 625.00 | 84-9 | 84-11 | 85-1 | 85-3 | 85-5 | 85-7 | 85-9 | 85-11 | 86-1 | 86-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS



OH813.58

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 1.54 | 2000 | 1.54 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.39 | 1024 | 1.35 | 1051 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.77 | 801 | 1.73 | 819 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.89 | 753 | 1.85 | 768 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.00 | 712 | 1.96 | 726 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.10 | 677 | 2.06 | 689 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.20 | 646 | 2.16 | 657 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.29 | 619 | 2.26 | 630 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.39 | 595 | 2.35 | 605 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.45 | 581 | 2.44 | 583 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.51 | 565 | 2.51 | 565 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.56 | 555 | 2.56 | 555 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.61 | 545 | 2.61 | 545 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.78 | 512 | 2.78 | 512 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.97 | 478 | 2.97 | 478 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 6.18 | 2000 | 6.18 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.02 | 946 | 5.98 | 952 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.43 | 885 | 6.39 | 891 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.57 | 867 | 6.52 | 873 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.70 | 850 | 6.65 | 856 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.83 | 834 | 6.78 | 840 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.95 | 819 | 6.91 | 825 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 7.08 | 805 | 7.03 | 810 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 7.20 | 792 | 7.15 | 797 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 7.32 | 779 | 7.27 | 784 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 7.44 | 766 | 7.39 | 771 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 7.52 | 758 | 7.51 | 759 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 7.62 | 748 | 7.62 | 748 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 7.87 | 725 | 7.87 | 725 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.16 | 700 | 8.16 | 700 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 13.96 | 2000 | 13.96 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.80 | 932 | 13.76 | 935 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 14.23 | 905 | 14.18 | 908 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 14.36 | 896 | 14.32 | 899 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 14.50 | 888 | 14.46 | 891 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 14.64 | 880 | 14.59 | 882 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 14.77 | 872 | 14.73 | 875 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 14.91 | 864 | 14.86 | 867 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 15.04 | 857 | 14.99 | 859 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 15.17 | 850 | 15.12 | 852 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 15.30 | 842 | 15.25 | 845 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 15.43 | 836 | 15.38 | 838 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 15.52 | 831 | 15.51 | 831 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 15.84 | 814 | 15.84 | 814 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 16.17 | 798 | 16.17 | 798 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 24.99 | 2000 | 24.99 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 24.83 | 927 | 24.79 | 929 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 25.26 | 912 | 25.22 | 914 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 25.40 | 907 | 25.36 | 909 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 25.54 | 903 | 25.50 | 904 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 25.68 | 898 | 25.63 | 899 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 25.82 | 893 | 25.77 | 895 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 25.96 | 889 | 25.91 | 890 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.09 | 884 | 26.04 | 886 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.23 | 880 | 26.18 | 881 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.36 | 875 | 26.31 | 877 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.50 | 871 | 26.45 | 873 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.61 | 867 | 26.58 | 868 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.95 | 857 | 26.95 | 857 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.31 | 846 | 27.31 | 846 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 39.41 | 2000 | 39.41 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 39.25 | 925 | 39.21 | 926 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 39.68 | 916 | 39.63 | 917 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 39.82 | 913 | 39.77 | 914 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 39.96 | 910 | 39.91 | 911 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.10 | 907 | 40.05 | 908 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.24 | 904 | 40.19 | 905 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.38 | 901 | 40.33 | 902 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.52 | 898 | 40.47 | 899 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.66 | 895 | 40.61 | 896 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.79 | 892 | 40.74 | 893 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.93 | 889 | 40.88 | 890 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 41.06 | 886 | 41.02 | 887 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 41.41 | 879 | 41.41 | 879 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 41.78 | 872 | 41.78 | 872 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 |
| 100.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 125.00 | 2-6 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 |
| 150.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 |
| 175.00 | 4-11 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 | 7-2 | 7-6 | 7-9 |
| 200.00 | 6-5 | 6-11 | 7-5 | 7-10 | 8-3 | 8-8 | 9-1 | 9-5 | 9-9 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-5 | 2-6 |
| 125.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 3-11 |
| 150.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 | 5-8 |
| 175.00 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-6 | 7-9 |
| 200.00 | 6-7 | 7-1 | 7-7 | 8-0 | 8-5 | 8-10 | 9-2 | 9-7 | 9-10 | 10-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.62

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 |
| 125.00 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 |
| 150.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 |
| 175.00 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 |
| 200.00 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 |
| 225.00 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 |
| 250.00 | 9-9 | 10-0 | 10-2 | 10-5 | 10-7 | 10-10 | 11-0 | 11-2 | 11-5 | 11-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 |
| 150.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 |
| 175.00 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 200.00 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 |
| 225.00 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 |
| 250.00 | 9-10 | 10-1 | 10-3 | 10-6 | 10-8 | 10-10 | 11-1 | 11-3 | 11-5 | 11-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.63

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 |
| 175.00 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 |
| 200.00 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 |
| 225.00 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 250.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 275.00 | 11-10 | 11-11 | 12-0 | 12-2 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-10 |
| 300.00 | 14-1 | 14-2 | 14-4 | 14-5 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-3 |
| 325.00 | 16-6 | 16-8 | 16-10 | 17-0 | 17-2 | 17-4 | 17-5 | 17-7 | 17-9 | 17-11 |
| 350.00 | 19-2 | 19-4 | 19-6 | 19-8 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 |
| 375.00 | 22-0 | 22-2 | 22-5 | 22-8 | 22-10 | 23-1 | 23-3 | 23-6 | 23-8 | 23-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-6 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 |
| 175.00 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 |
| 200.00 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 | 6-9 |
| 225.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 |
| 250.00 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 275.00 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 | 12-8 | 12-9 | 12-10 |
| 300.00 | 14-1 | 14-3 | 14-4 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-2 | 15-4 |
| 325.00 | 16-6 | 16-8 | 16-10 | 17-0 | 17-2 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 |
| 350.00 | 19-2 | 19-5 | 19-7 | 19-9 | 19-11 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 |
| 375.00 | 22-1 | 22-3 | 22-6 | 22-8 | 22-11 | 23-1 | 23-4 | 23-7 | 23-9 | 23-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.64

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 |
| 225.00 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 |
| 250.00 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 |
| 275.00 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 |
| 300.00 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-8 | 14-9 |
| 325.00 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 |
| 350.00 | 19-2 | 19-3 | 19-5 | 19-6 | 19-7 | 19-8 | 19-10 | 19-11 | 20-0 | 20-1 |
| 375.00 | 22-0 | 22-2 | 22-3 | 22-5 | 22-6 | 22-8 | 22-9 | 22-10 | 23-0 | 23-1 |
| 400.00 | 25-1 | 25-3 | 25-4 | 25-6 | 25-8 | 25-9 | 25-11 | 26-1 | 26-2 | 26-4 |
| 425.00 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-1 | 29-3 | 29-5 | 29-7 | 29-9 |
| 450.00 | 31-9 | 32-0 | 32-2 | 32-4 | 32-6 | 32-8 | 32-10 | 33-0 | 33-2 | 33-4 |
| 475.00 | 35-5 | 35-8 | 35-10 | 36-0 | 36-3 | 36-5 | 36-7 | 36-10 | 37-0 | 37-2 |
| 500.00 | 39-4 | 39-6 | 39-9 | 39-11 | 40-2 | 40-5 | 40-7 | 40-10 | 41-0 | 41-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 |
| 225.00 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 |
| 250.00 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 |
| 275.00 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 |
| 300.00 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 |
| 325.00 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 |
| 350.00 | 19-2 | 19-4 | 19-5 | 19-6 | 19-8 | 19-9 | 19-10 | 19-11 | 20-1 | 20-2 |
| 375.00 | 22-1 | 22-2 | 22-4 | 22-5 | 22-7 | 22-8 | 22-10 | 22-11 | 23-0 | 23-2 |
| 400.00 | 25-1 | 25-3 | 25-5 | 25-6 | 25-8 | 25-10 | 25-11 | 26-1 | 26-3 | 26-4 |
| 425.00 | 28-5 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-4 | 29-6 | 29-8 | 29-9 |
| 450.00 | 31-10 | 32-0 | 32-2 | 32-4 | 32-7 | 32-9 | 32-11 | 33-1 | 33-3 | 33-5 |
| 475.00 | 35-6 | 35-8 | 35-11 | 36-1 | 36-4 | 36-6 | 36-8 | 36-11 | 37-1 | 37-3 |
| 500.00 | 39-4 | 39-7 | 39-10 | 40-0 | 40-3 | 40-6 | 40-8 | 40-11 | 41-1 | 41-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS



OH813.65

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 |
| 275.00 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 |
| 300.00 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 |
| 325.00 | 16-7 | 16-8 | 16-9 | 16-9 | 16-10 | 16-11 | 16-11 | 17-0 | 17-1 | 17-2 |
| 350.00 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 |
| 375.00 | 22-2 | 22-3 | 22-4 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 |
| 400.00 | 25-2 | 25-3 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 | 26-0 |
| 425.00 | 28-6 | 28-7 | 28-8 | 28-9 | 28-10 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 |
| 450.00 | 31-11 | 32-1 | 32-2 | 32-3 | 32-5 | 32-6 | 32-7 | 32-9 | 32-10 | 32-11 |
| 475.00 | 35-7 | 35-9 | 35-10 | 36-0 | 36-1 | 36-3 | 36-4 | 36-6 | 36-7 | 36-9 |
| 500.00 | 39-6 | 39-8 | 39-9 | 39-11 | 40-1 | 40-2 | 40-4 | 40-6 | 40-7 | 40-9 |
| 525.00 | 43-7 | 43-9 | 43-11 | 44-1 | 44-2 | 44-4 | 44-6 | 44-8 | 44-10 | 45-0 |
| 550.00 | 47-10 | 48-0 | 48-3 | 48-5 | 48-7 | 48-9 | 48-11 | 49-1 | 49-3 | 49-5 |
| 575.00 | 52-4 | 52-7 | 52-9 | 52-11 | 53-1 | 53-4 | 53-6 | 53-8 | 53-10 | 54-0 |
| 600.00 | 57-1 | 57-3 | 57-6 | 57-8 | 57-11 | 58-1 | 58-4 | 58-6 | 58-8 | 58-11 |
| 625.00 | 62-0 | 62-3 | 62-5 | 62-8 | 62-11 | 63-1 | 63-4 | 63-6 | 63-9 | 64-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 |
| 275.00 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 |
| 300.00 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-7 | 14-7 |
| 325.00 | 16-7 | 16-8 | 16-9 | 16-10 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 |
| 350.00 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 | 19-11 |
| 375.00 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-8 | 22-9 | 22-10 |
| 400.00 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 | 26-0 |
| 425.00 | 28-6 | 28-7 | 28-8 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-4 | 29-5 |
| 450.00 | 32-0 | 32-1 | 32-2 | 32-4 | 32-5 | 32-6 | 32-8 | 32-9 | 32-11 | 33-0 |
| 475.00 | 35-8 | 35-9 | 35-11 | 36-0 | 36-2 | 36-3 | 36-5 | 36-6 | 36-8 | 36-9 |
| 500.00 | 39-6 | 39-8 | 39-10 | 40-0 | 40-1 | 40-3 | 40-5 | 40-6 | 40-8 | 40-10 |
| 525.00 | 43-7 | 43-9 | 43-11 | 44-1 | 44-3 | 44-5 | 44-7 | 44-9 | 44-10 | 45-0 |
| 550.00 | 47-11 | 48-1 | 48-3 | 48-5 | 48-7 | 48-9 | 48-11 | 49-1 | 49-3 | 49-5 |
| 575.00 | 52-5 | 52-7 | 52-10 | 53-0 | 53-2 | 53-4 | 53-7 | 53-9 | 53-11 | 54-1 |
| 600.00 | 57-2 | 57-4 | 57-7 | 57-9 | 57-11 | 58-2 | 58-4 | 58-7 | 58-9 | 59-0 |
| 625.00 | 62-1 | 62-3 | 62-6 | 62-9 | 62-11 | 63-2 | 63-5 | 63-7 | 63-10 | 64-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 1.23 | 2500 | 1.23 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.01 | 1410 | 0.96 | 1479 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.46 | 972 | 1.40 | 1012 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.59 | 891 | 1.53 | 925 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.72 | 827 | 1.66 | 855 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.83 | 774 | 1.78 | 798 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.95 | 730 | 1.89 | 751 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.05 | 692 | 2.00 | 711 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.15 | 660 | 2.10 | 676 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.24 | 635 | 2.20 | 646 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.29 | 620 | 2.29 | 620 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.35 | 603 | 2.35 | 603 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.40 | 591 | 2.40 | 591 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.58 | 550 | 2.58 | 550 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.79 | 510 | 2.79 | 510 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 4.93 | 2500 | 4.93 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.69 | 1213 | 4.62 | 1229 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.20 | 1093 | 5.13 | 1107 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.36 | 1061 | 5.30 | 1074 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.52 | 1031 | 5.45 | 1043 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.67 | 1003 | 5.61 | 1015 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.82 | 977 | 5.75 | 989 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.97 | 953 | 5.90 | 964 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.11 | 931 | 6.04 | 942 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.25 | 911 | 6.18 | 921 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.39 | 891 | 6.32 | 901 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.52 | 873 | 6.45 | 882 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.62 | 860 | 6.59 | 865 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.92 | 823 | 6.92 | 823 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 7.24 | 787 | 7.24 | 787 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 11.14 | 2500 | 11.14 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.88 | 1178 | 10.82 | 1185 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.41 | 1124 | 11.34 | 1131 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.58 | 1108 | 11.51 | 1115 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.75 | 1092 | 11.68 | 1099 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.92 | 1077 | 11.85 | 1084 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.08 | 1063 | 12.01 | 1069 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.24 | 1049 | 12.17 | 1055 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.40 | 1036 | 12.33 | 1042 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.56 | 1023 | 12.48 | 1029 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.71 | 1011 | 12.64 | 1016 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.87 | 999 | 12.79 | 1004 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.02 | 987 | 12.94 | 993 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.43 | 957 | 13.43 | 957 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.82 | 931 | 13.82 | 931 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 19.89 | 2499 | 19.88 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.64 | 1166 | 19.57 | 1170 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.17 | 1136 | 20.09 | 1140 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.35 | 1126 | 20.27 | 1131 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.52 | 1117 | 20.44 | 1121 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.69 | 1108 | 20.61 | 1112 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.86 | 1099 | 20.78 | 1103 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 21.03 | 1091 | 20.94 | 1095 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 21.19 | 1082 | 21.11 | 1086 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 21.36 | 1074 | 21.28 | 1078 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 21.53 | 1066 | 21.44 | 1070 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 21.69 | 1058 | 21.60 | 1062 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 21.85 | 1050 | 21.76 | 1054 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 22.34 | 1028 | 22.34 | 1028 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 22.76 | 1009 | 22.76 | 1009 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 31.26 | 2499 | 31.24 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 31.01 | 1161 | 30.93 | 1163 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 31.54 | 1142 | 31.46 | 1144 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 31.71 | 1135 | 31.63 | 1138 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 31.89 | 1129 | 31.80 | 1132 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 32.06 | 1123 | 31.98 | 1126 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 32.24 | 1118 | 32.15 | 1121 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 32.41 | 1112 | 32.32 | 1115 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 32.58 | 1106 | 32.49 | 1109 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 32.75 | 1101 | 32.66 | 1104 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 32.92 | 1095 | 32.83 | 1098 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 33.09 | 1090 | 32.99 | 1093 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 33.26 | 1084 | 33.16 | 1088 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 33.78 | 1068 | 33.77 | 1069 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.23 | 1055 | 34.23 | 1055 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 |
| 100.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 125.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 |
| 150.00 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 |
| 175.00 | 3-10 | 4-4 | 4-8 | 5-1 | 5-5 | 5-10 | 6-1 | 6-5 | 6-9 | 7-0 |
| 200.00 | 5-1 | 5-7 | 6-2 | 6-8 | 7-1 | 7-7 | 8-0 | 8-5 | 8-10 | 9-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-3 |
| 100.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-3 |
| 125.00 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 |
| 150.00 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 | 5-2 |
| 175.00 | 4-0 | 4-6 | 4-11 | 5-3 | 5-7 | 6-0 | 6-3 | 6-7 | 6-10 | 7-0 |
| 200.00 | 5-3 | 5-10 | 6-5 | 6-10 | 7-4 | 7-10 | 8-3 | 8-8 | 9-0 | 9-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.70

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 |
| 125.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 |
| 150.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 175.00 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 |
| 200.00 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 |
| 225.00 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 | 8-0 |
| 250.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-5 | 9-8 | 9-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 |
| 125.00 | 2-0 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 |
| 150.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 175.00 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-11 |
| 200.00 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 |
| 225.00 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 |
| 250.00 | 7-10 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 | 10-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.71

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 |
| 175.00 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 |
| 200.00 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 |
| 225.00 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 250.00 | 7-9 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 |
| 275.00 | 9-5 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 |
| 300.00 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 |
| 325.00 | 13-1 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-3 | 14-6 | 14-8 | 14-10 |
| 350.00 | 15-3 | 15-5 | 15-8 | 15-11 | 16-2 | 16-4 | 16-7 | 16-10 | 17-0 | 17-3 |
| 375.00 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 19-0 | 19-3 | 19-6 | 19-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 |
| 175.00 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 |
| 200.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 225.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-2 |
| 250.00 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 |
| 275.00 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 | 10-7 | 10-8 |
| 300.00 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 |
| 325.00 | 13-2 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 | 14-4 | 14-7 | 14-9 | 14-11 |
| 350.00 | 15-4 | 15-7 | 15-9 | 16-0 | 16-3 | 16-5 | 16-8 | 16-11 | 17-1 | 17-4 |
| 375.00 | 17-7 | 17-10 | 18-1 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.72

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 225.00 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 | 6-9 |
| 250.00 | 7-9 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 |
| 275.00 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 |
| 300.00 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 |
| 325.00 | 13-2 | 13-3 | 13-4 | 13-6 | 13-7 | 13-8 | 13-10 | 13-11 | 14-0 | 14-2 |
| 350.00 | 15-3 | 15-4 | 15-6 | 15-8 | 15-9 | 15-11 | 16-0 | 16-2 | 16-3 | 16-5 |
| 375.00 | 17-6 | 17-8 | 17-10 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-8 | 18-10 |
| 400.00 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 |
| 425.00 | 22-6 | 22-8 | 22-11 | 23-1 | 23-3 | 23-6 | 23-8 | 23-10 | 24-0 | 24-3 |
| 450.00 | 25-3 | 25-5 | 25-8 | 25-11 | 26-1 | 26-4 | 26-6 | 26-9 | 26-11 | 27-2 |
| 475.00 | 28-2 | 28-4 | 28-7 | 28-10 | 29-1 | 29-4 | 29-7 | 29-10 | 30-1 | 30-3 |
| 500.00 | 31-2 | 31-5 | 31-9 | 32-0 | 32-3 | 32-6 | 32-10 | 33-1 | 33-4 | 33-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 225.00 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 |
| 250.00 | 7-10 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-5 |
| 275.00 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 |
| 300.00 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 325.00 | 13-2 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 |
| 350.00 | 15-4 | 15-5 | 15-7 | 15-8 | 15-10 | 15-11 | 16-1 | 16-3 | 16-4 | 16-6 |
| 375.00 | 17-7 | 17-9 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-11 |
| 400.00 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 |
| 425.00 | 22-7 | 22-9 | 23-0 | 23-2 | 23-4 | 23-7 | 23-9 | 23-11 | 24-2 | 24-4 |
| 450.00 | 25-4 | 25-7 | 25-9 | 26-0 | 26-3 | 26-5 | 26-8 | 26-10 | 27-1 | 27-3 |
| 475.00 | 28-3 | 28-6 | 28-9 | 29-0 | 29-3 | 29-5 | 29-8 | 29-11 | 30-2 | 30-5 |
| 500.00 | 31-4 | 31-7 | 31-10 | 32-1 | 32-5 | 32-8 | 32-11 | 33-2 | 33-5 | 33-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 |
| 275.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 |
| 300.00 | 11-3 | 11-3 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 |
| 325.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 |
| 350.00 | 15-3 | 15-4 | 15-5 | 15-7 | 15-8 | 15-9 | 15-10 | 15-10 | 15-11 | 16-0 |
| 375.00 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-5 |
| 400.00 | 20-0 | 20-1 | 20-2 | 20-4 | 20-5 | 20-6 | 20-8 | 20-9 | 20-10 | 21-0 |
| 425.00 | 22-7 | 22-8 | 22-10 | 22-11 | 23-1 | 23-2 | 23-4 | 23-5 | 23-7 | 23-8 |
| 450.00 | 25-4 | 25-5 | 25-7 | 25-9 | 25-10 | 26-0 | 26-2 | 26-3 | 26-5 | 26-7 |
| 475.00 | 28-3 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-4 | 29-5 | 29-7 |
| 500.00 | 31-3 | 31-5 | 31-8 | 31-10 | 32-0 | 32-2 | 32-4 | 32-6 | 32-8 | 32-10 |
| 525.00 | 34-6 | 34-8 | 34-11 | 35-1 | 35-3 | 35-6 | 35-8 | 35-10 | 36-0 | 36-3 |
| 550.00 | 37-11 | 38-1 | 38-4 | 38-6 | 38-9 | 38-11 | 39-2 | 39-4 | 39-7 | 39-9 |
| 575.00 | 41-5 | 41-8 | 41-11 | 42-2 | 42-4 | 42-7 | 42-10 | 43-1 | 43-3 | 43-6 |
| 600.00 | 45-2 | 45-5 | 45-8 | 45-11 | 46-2 | 46-5 | 46-8 | 46-11 | 47-2 | 47-5 |
| 625.00 | 49-0 | 49-4 | 49-7 | 49-10 | 50-1 | 50-5 | 50-8 | 50-11 | 51-2 | 51-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 |
| 275.00 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 |
| 300.00 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-10 |
| 325.00 | 13-3 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-10 |
| 350.00 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 |
| 375.00 | 17-7 | 17-8 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-5 | 18-6 |
| 400.00 | 20-0 | 20-2 | 20-3 | 20-4 | 20-6 | 20-7 | 20-8 | 20-10 | 20-11 | 21-0 |
| 425.00 | 22-8 | 22-9 | 22-11 | 23-0 | 23-2 | 23-3 | 23-5 | 23-6 | 23-7 | 23-9 |
| 450.00 | 25-5 | 25-6 | 25-8 | 25-10 | 25-11 | 26-1 | 26-3 | 26-4 | 26-6 | 26-8 |
| 475.00 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 | 29-3 | 29-5 | 29-6 | 29-8 |
| 500.00 | 31-4 | 31-6 | 31-9 | 31-11 | 32-1 | 32-3 | 32-5 | 32-7 | 32-9 | 32-11 |
| 525.00 | 34-7 | 34-9 | 35-0 | 35-2 | 35-4 | 35-7 | 35-9 | 35-11 | 36-2 | 36-4 |
| 550.00 | 38-0 | 38-2 | 38-5 | 38-8 | 38-10 | 39-1 | 39-3 | 39-6 | 39-8 | 39-11 |
| 575.00 | 41-7 | 41-9 | 42-0 | 42-3 | 42-6 | 42-8 | 42-11 | 43-2 | 43-5 | 43-7 |
| 600.00 | 45-3 | 45-6 | 45-9 | 46-0 | 46-3 | 46-6 | 46-9 | 47-0 | 47-3 | 47-6 |
| 625.00 | 49-2 | 49-5 | 49-8 | 50-0 | 50-3 | 50-6 | 50-10 | 51-1 | 51-4 | 51-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 1.03 | 3000 | 1.03 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 0.74 | 1913 | 0.70 | 2037 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.23 | 1151 | 1.15 | 1230 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.38 | 1028 | 1.30 | 1091 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.52 | 935 | 1.44 | 987 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.65 | 862 | 1.57 | 905 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.77 | 803 | 1.69 | 839 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.88 | 754 | 1.81 | 785 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.99 | 713 | 1.92 | 740 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.09 | 678 | 2.02 | 701 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.15 | 661 | 2.13 | 668 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.21 | 642 | 2.21 | 642 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.26 | 628 | 2.26 | 628 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.45 | 581 | 2.45 | 581 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.66 | 534 | 2.66 | 534 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 4.11 | 3000 | 4.11 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.76 | 1511 | 3.67 | 1547 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.36 | 1302 | 4.27 | 1331 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.55 | 1249 | 4.46 | 1275 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.73 | 1201 | 4.64 | 1226 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.91 | 1159 | 4.81 | 1181 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.08 | 1120 | 4.98 | 1141 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.24 | 1085 | 5.15 | 1105 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.40 | 1053 | 5.31 | 1072 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.56 | 1023 | 5.46 | 1041 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.71 | 996 | 5.61 | 1013 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 5.86 | 971 | 5.76 | 987 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.00 | 948 | 5.91 | 963 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.33 | 899 | 6.33 | 899 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.67 | 854 | 6.67 | 854 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 9.30 | 2988 | 9.26 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.94 | 1431 | 8.81 | 1453 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.57 | 1339 | 9.43 | 1358 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.77 | 1311 | 9.63 | 1330 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.97 | 1286 | 9.83 | 1304 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.16 | 1262 | 10.02 | 1279 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.35 | 1239 | 10.21 | 1255 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.53 | 1217 | 10.40 | 1233 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.72 | 1196 | 10.58 | 1212 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.90 | 1177 | 10.76 | 1192 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.08 | 1158 | 10.94 | 1173 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.25 | 1140 | 11.11 | 1154 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.42 | 1123 | 11.28 | 1137 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.93 | 1076 | 11.90 | 1079 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.35 | 1040 | 12.35 | 1040 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 16.58 | 2990 | 16.52 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 16.22 | 1408 | 16.06 | 1421 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 16.85 | 1356 | 16.69 | 1368 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.05 | 1340 | 16.90 | 1352 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.26 | 1324 | 17.10 | 1336 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.46 | 1309 | 17.30 | 1321 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.66 | 1294 | 17.50 | 1306 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.86 | 1280 | 17.69 | 1292 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 18.05 | 1267 | 17.89 | 1278 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 18.24 | 1254 | 18.08 | 1265 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 18.43 | 1241 | 18.27 | 1252 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 18.62 | 1228 | 18.46 | 1239 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 18.81 | 1216 | 18.65 | 1227 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.43 | 1178 | 19.32 | 1185 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.91 | 1150 | 19.91 | 1150 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 2.461 | 25.98 | 2992 | 25.91 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 25.62 | 1398 | 25.45 | 1407 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.25 | 1365 | 26.09 | 1373 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.46 | 1354 | 26.29 | 1363 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.67 | 1344 | 26.50 | 1352 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 26.87 | 1334 | 26.70 | 1342 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.08 | 1324 | 26.91 | 1332 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.28 | 1314 | 27.11 | 1323 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.48 | 1305 | 27.31 | 1313 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.68 | 1296 | 27.51 | 1304 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.88 | 1287 | 27.71 | 1295 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 28.08 | 1278 | 27.90 | 1286 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 28.28 | 1269 | 28.10 | 1277 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 28.98 | 1239 | 28.81 | 1247 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.49 | 1219 | 29.49 | 1219 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 |
| 125.00 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 150.00 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 |
| 175.00 | 3-1 | 3-6 | 4-0 | 4-5 | 4-10 | 5-2 | 5-6 | 5-11 | 6-2 | 6-6 |
| 200.00 | 4-0 | 4-7 | 5-2 | 5-9 | 6-3 | 6-9 | 7-3 | 7-8 | 8-1 | 8-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 |
| 125.00 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 |
| 150.00 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 | 4-10 |
| 175.00 | 3-4 | 3-9 | 4-3 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-7 |
| 200.00 | 4-4 | 4-11 | 5-6 | 6-1 | 6-7 | 7-1 | 7-6 | 8-0 | 8-5 | 8-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.78

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 |
| 150.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 175.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 |
| 200.00 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 |
| 225.00 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 |
| 250.00 | 6-4 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 8-1 | 8-4 | 8-6 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 125.00 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 |
| 150.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 |
| 175.00 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 |
| 200.00 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 |
| 225.00 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 |
| 250.00 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.79

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 |
| 175.00 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-9 |
| 200.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 225.00 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 |
| 250.00 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 |
| 275.00 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 |
| 300.00 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 |
| 325.00 | 10-10 | 11-1 | 11-4 | 11-6 | 11-9 | 12-0 | 12-2 | 12-5 | 12-8 | 12-10 |
| 350.00 | 12-7 | 12-10 | 13-1 | 13-5 | 13-8 | 13-11 | 14-2 | 14-5 | 14-8 | 14-11 |
| 375.00 | 14-5 | 14-9 | 15-1 | 15-4 | 15-8 | 16-0 | 16-3 | 16-7 | 16-10 | 17-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 175.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 |
| 200.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 225.00 | 5-3 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 |
| 250.00 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 |
| 275.00 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 |
| 300.00 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-4 | 10-6 | 10-9 | 10-11 | 11-1 |
| 325.00 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 | 12-2 | 12-4 | 12-7 | 12-10 | 13-0 |
| 350.00 | 12-9 | 13-0 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-7 | 14-10 | 15-1 |
| 375.00 | 14-8 | 15-0 | 15-3 | 15-7 | 15-11 | 16-2 | 16-6 | 16-9 | 17-1 | 17-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 |
| 225.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 |
| 250.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 |
| 275.00 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 300.00 | 9-3 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 |
| 325.00 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 |
| 350.00 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-6 | 13-8 | 13-10 | 14-0 |
| 375.00 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-7 | 15-9 | 15-11 | 16-1 |
| 400.00 | 16-6 | 16-8 | 16-11 | 17-1 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 |
| 425.00 | 18-7 | 18-10 | 19-1 | 19-4 | 19-6 | 19-9 | 20-0 | 20-2 | 20-5 | 20-8 |
| 450.00 | 20-11 | 21-2 | 21-5 | 21-8 | 21-11 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 |
| 475.00 | 23-3 | 23-7 | 23-10 | 24-2 | 24-5 | 24-8 | 25-0 | 25-3 | 25-6 | 25-10 |
| 500.00 | 25-9 | 26-1 | 26-5 | 26-9 | 27-1 | 27-5 | 27-8 | 28-0 | 28-4 | 28-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 |
| 225.00 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 |
| 250.00 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 |
| 275.00 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 300.00 | 9-4 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 |
| 325.00 | 11-0 | 11-1 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 | 12-2 |
| 350.00 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-1 |
| 375.00 | 14-7 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 |
| 400.00 | 16-8 | 16-10 | 17-1 | 17-3 | 17-6 | 17-8 | 17-10 | 18-1 | 18-3 | 18-5 |
| 425.00 | 18-9 | 19-0 | 19-3 | 19-6 | 19-9 | 19-11 | 20-2 | 20-5 | 20-7 | 20-10 |
| 450.00 | 21-1 | 21-4 | 21-7 | 21-10 | 22-1 | 22-4 | 22-7 | 22-10 | 23-1 | 23-4 |
| 475.00 | 23-6 | 23-9 | 24-1 | 24-4 | 24-8 | 24-11 | 25-2 | 25-6 | 25-9 | 26-0 |
| 500.00 | 26-0 | 26-4 | 26-8 | 27-0 | 27-4 | 27-8 | 27-11 | 28-3 | 28-7 | 28-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 |
| 275.00 | 7-10 | 7-10 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 |
| 300.00 | 9-4 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 9-11 |
| 325.00 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 |
| 350.00 | 12-8 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-7 |
| 375.00 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 | 15-7 |
| 400.00 | 16-6 | 16-8 | 16-10 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-7 | 17-8 |
| 425.00 | 18-8 | 18-10 | 19-0 | 19-2 | 19-3 | 19-5 | 19-7 | 19-9 | 19-10 | 20-0 |
| 450.00 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 | 22-5 |
| 475.00 | 23-4 | 23-6 | 23-9 | 23-11 | 24-1 | 24-3 | 24-5 | 24-8 | 24-10 | 25-0 |
| 500.00 | 25-11 | 26-1 | 26-4 | 26-6 | 26-8 | 26-11 | 27-1 | 27-4 | 27-6 | 27-8 |
| 525.00 | 28-6 | 28-9 | 29-0 | 29-3 | 29-5 | 29-8 | 29-11 | 30-1 | 30-4 | 30-7 |
| 550.00 | 31-4 | 31-7 | 31-10 | 32-1 | 32-4 | 32-7 | 32-10 | 33-1 | 33-4 | 33-7 |
| 575.00 | 34-3 | 34-6 | 34-10 | 35-1 | 35-4 | 35-8 | 35-11 | 36-2 | 36-5 | 36-8 |
| 600.00 | 37-4 | 37-7 | 37-11 | 38-3 | 38-6 | 38-10 | 39-1 | 39-5 | 39-8 | 40-0 |
| 625.00 | 40-6 | 40-10 | 41-2 | 41-6 | 41-10 | 42-2 | 42-5 | 42-9 | 43-1 | 43-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 |
| 275.00 | 7-10 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 |
| 300.00 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 |
| 325.00 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 |
| 350.00 | 12-9 | 12-10 | 12-11 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-8 |
| 375.00 | 14-8 | 14-9 | 14-10 | 15-0 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 |
| 400.00 | 16-8 | 16-9 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-7 | 17-8 | 17-10 |
| 425.00 | 18-10 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 | 19-8 | 19-10 | 20-0 | 20-1 |
| 450.00 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 | 22-5 | 22-7 |
| 475.00 | 23-6 | 23-8 | 23-10 | 24-1 | 24-3 | 24-5 | 24-7 | 24-10 | 25-0 | 25-2 |
| 500.00 | 26-1 | 26-3 | 26-6 | 26-8 | 26-10 | 27-1 | 27-3 | 27-6 | 27-8 | 27-11 |
| 525.00 | 28-9 | 28-11 | 29-2 | 29-5 | 29-8 | 29-10 | 30-1 | 30-4 | 30-6 | 30-9 |
| 550.00 | 31-6 | 31-9 | 32-1 | 32-4 | 32-7 | 32-10 | 33-0 | 33-3 | 33-6 | 33-9 |
| 575.00 | 34-6 | 34-9 | 35-0 | 35-4 | 35-7 | 35-10 | 36-2 | 36-5 | 36-8 | 36-11 |
| 600.00 | 37-7 | 37-10 | 38-2 | 38-6 | 38-9 | 39-1 | 39-4 | 39-8 | 39-11 | 40-3 |
| 625.00 | 40-9 | 41-1 | 41-5 | 41-9 | 42-1 | 42-5 | 42-9 | 43-0 | 43-4 | 43-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 6.40 | 1000 | 6.40 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.37 | 226 | 6.36 | 226 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.48 | 222 | 6.47 | 223 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.51 | 221 | 6.51 | 222 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.55 | 220 | 6.54 | 220 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.58 | 219 | 6.58 | 219 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.60 | 219 | 6.60 | 219 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.62 | 218 | 6.62 | 218 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.64 | 217 | 6.64 | 217 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.66 | 217 | 6.66 | 217 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.68 | 216 | 6.68 | 216 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.70 | 215 | 6.70 | 215 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.72 | 215 | 6.72 | 215 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.80 | 212 | 6.80 | 212 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 6.89 | 210 | 6.89 | 210 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 27.06 | 1000 | 27.06 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.03 | 225 | 27.02 | 225 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.14 | 224 | 27.13 | 224 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.17 | 224 | 27.16 | 224 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.20 | 224 | 27.20 | 224 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.23 | 224 | 27.23 | 224 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.25 | 224 | 27.25 | 224 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.28 | 223 | 27.28 | 223 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.30 | 223 | 27.30 | 223 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.32 | 223 | 27.32 | 223 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.34 | 223 | 27.34 | 223 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.36 | 223 | 27.36 | 223 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.38 | 223 | 27.38 | 223 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.46 | 222 | 27.46 | 222 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 27.55 | 221 | 27.55 | 221 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 68.80 | 1000 | 68.80 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.77 | 225 | 68.76 | 225 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.88 | 225 | 68.87 | 225 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.91 | 225 | 68.91 | 225 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.95 | 225 | 68.94 | 225 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.97 | 225 | 68.97 | 225 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 69.00 | 225 | 69.00 | 225 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 69.02 | 225 | 69.02 | 225 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 69.04 | 224 | 69.04 | 224 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 69.06 | 224 | 69.06 | 224 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 69.08 | 224 | 69.08 | 224 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 69.10 | 224 | 69.10 | 224 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 69.12 | 224 | 69.12 | 224 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 69.20 | 224 | 69.20 | 224 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 69.29 | 224 | 69.29 | 224 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 92.38 | 1327 | 92.38 | 1327* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.32 | 299 | 92.31 | 299 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.47 | 298 | 92.45 | 298 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.51 | 298 | 92.50 | 298 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.56 | 298 | 92.54 | 298 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.60 | 298 | 92.59 | 298 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.63 | 298 | 92.63 | 298 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.66 | 298 | 92.66 | 298 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.69 | 298 | 92.69 | 298 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.72 | 298 | 92.72 | 298 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.75 | 298 | 92.75 | 298 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.77 | 298 | 92.77 | 298 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.80 | 298 | 92.80 | 298 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 92.90 | 298 | 92.90 | 298 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 93.03 | 297 | 93.03 | 297 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 116.27 | 1652 | 116.27 | 1652* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.19 | 372 | 116.17 | 372 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.37 | 371 | 116.35 | 371 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.42 | 371 | 116.40 | 371 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.48 | 371 | 116.46 | 371 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.54 | 371 | 116.52 | 371 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.59 | 371 | 116.57 | 371 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.63 | 371 | 116.63 | 371 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.66 | 371 | 116.66 | 371 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.70 | 371 | 116.70 | 371 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.73 | 371 | 116.73 | 371 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.77 | 371 | 116.77 | 371 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.80 | 371 | 116.80 | 371 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 116.93 | 370 | 116.93 | 370 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 117.08 | 370 | 117.08 | 370 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3-7 | 3-8 | 3-8 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-9 |
| 100.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 125.00 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 |
| 150.00 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 |
| 175.00 | 19-11 | 20-1 | 20-2 | 20-3 | 20-5 | 20-5 | 20-6 | 20-7 | 20-8 | 20-8 |
| 200.00 | 26-2 | 26-4 | 26-6 | 26-7 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3-7 | 3-8 | 3-8 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-9 |
| 100.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 125.00 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 |
| 150.00 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 |
| 175.00 | 20-0 | 20-1 | 20-2 | 20-3 | 20-5 | 20-5 | 20-6 | 20-7 | 20-8 | 20-8 |
| 200.00 | 26-3 | 26-4 | 26-6 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.86

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 |
| 125.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 |
| 150.00 | 15-1 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 | 15-2 | 15-2 | 15-3 | 15-3 |
| 175.00 | 20-8 | 20-8 | 20-8 | 20-9 | 20-9 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 |
| 200.00 | 27-1 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 |
| 225.00 | 34-6 | 34-7 | 34-7 | 34-8 | 34-8 | 34-9 | 34-9 | 34-9 | 34-10 | 34-10 |
| 250.00 | 42-11 | 42-11 | 43-0 | 43-1 | 43-1 | 43-2 | 43-2 | 43-3 | 43-3 | 43-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 |
| 125.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 |
| 150.00 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 | 15-2 | 15-2 | 15-2 | 15-3 | 15-3 |
| 175.00 | 20-8 | 20-8 | 20-8 | 20-9 | 20-9 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 |
| 200.00 | 27-1 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 |
| 225.00 | 34-6 | 34-7 | 34-7 | 34-8 | 34-8 | 34-9 | 34-9 | 34-9 | 34-10 | 34-10 |
| 250.00 | 42-11 | 42-11 | 43-0 | 43-1 | 43-1 | 43-2 | 43-2 | 43-3 | 43-3 | 43-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.87

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 16-5 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 | 16-6 | 16-6 | 16-6 |
| 175.00 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 | 22-7 | 22-7 | 22-7 | 22-7 |
| 200.00 | 29-7 | 29-7 | 29-7 | 29-7 | 29-7 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 |
| 225.00 | 37-8 | 37-9 | 37-9 | 37-9 | 37-9 | 37-9 | 37-9 | 37-10 | 37-10 | 37-10 |
| 250.00 | 46-11 | 46-11 | 47-0 | 47-0 | 47-0 | 47-0 | 47-0 | 47-1 | 47-1 | 47-1 |
| 275.00 | 57-3 | 57-4 | 57-4 | 57-4 | 57-5 | 57-5 | 57-5 | 57-5 | 57-6 | 57-6 |
| 300.00 | 68-10 | 68-10 | 68-11 | 68-11 | 69-0 | 69-0 | 69-0 | 69-0 | 69-1 | 69-1 |
| 325.00 | 81-8 | 81-8 | 81-9 | 81-9 | 81-10 | 81-10 | 81-10 | 81-11 | 81-11 | 81-11 |
| 350.00 | 95-9 | 95-10 | 95-11 | 95-11 | 96-0 | 96-0 | 96-1 | 96-1 | 96-1 | 96-2 |
| 375.00 | 111-4 | 111-5 | 111-5 | 111-6 | 111-7 | 111-7 | 111-8 | 111-8 | 111-8 | 111-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 16-5 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 | 16-6 | 16-6 | 16-6 |
| 175.00 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 | 22-7 | 22-7 | 22-7 | 22-7 |
| 200.00 | 29-7 | 29-7 | 29-7 | 29-7 | 29-7 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 |
| 225.00 | 37-8 | 37-9 | 37-9 | 37-9 | 37-9 | 37-9 | 37-9 | 37-10 | 37-10 | 37-10 |
| 250.00 | 46-11 | 46-11 | 47-0 | 47-0 | 47-0 | 47-0 | 47-0 | 47-1 | 47-1 | 47-1 |
| 275.00 | 57-3 | 57-4 | 57-4 | 57-4 | 57-5 | 57-5 | 57-5 | 57-5 | 57-6 | 57-6 |
| 300.00 | 68-10 | 68-11 | 68-11 | 68-11 | 69-0 | 69-0 | 69-0 | 69-0 | 69-1 | 69-1 |
| 325.00 | 81-8 | 81-8 | 81-9 | 81-9 | 81-10 | 81-10 | 81-10 | 81-11 | 81-11 | 81-11 |
| 350.00 | 95-10 | 95-10 | 95-11 | 95-11 | 96-0 | 96-0 | 96-1 | 96-1 | 96-1 | 96-2 |
| 375.00 | 111-4 | 111-5 | 111-5 | 111-6 | 111-7 | 111-7 | 111-8 | 111-8 | 111-8 | 111-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 22-0 | 22-0 | 22-0 | 22-0 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 | 22-1 |
| 225.00 | 27-11 | 27-11 | 28-0 | 28-0 | 28-0 | 28-0 | 28-0 | 28-0 | 28-0 | 28-0 |
| 250.00 | 34-8 | 34-8 | 34-8 | 34-8 | 34-9 | 34-9 | 34-9 | 34-9 | 34-9 | 34-9 |
| 275.00 | 42-2 | 42-2 | 42-2 | 42-2 | 42-3 | 42-3 | 42-3 | 42-3 | 42-3 | 42-4 |
| 300.00 | 50-5 | 50-6 | 50-6 | 50-6 | 50-6 | 50-7 | 50-7 | 50-7 | 50-7 | 50-7 |
| 325.00 | 59-7 | 59-7 | 59-7 | 59-8 | 59-8 | 59-8 | 59-9 | 59-9 | 59-9 | 59-9 |
| 350.00 | 69-6 | 69-7 | 69-7 | 69-7 | 69-8 | 69-8 | 69-9 | 69-9 | 69-9 | 69-9 |
| 375.00 | 80-4 | 80-5 | 80-5 | 80-6 | 80-6 | 80-7 | 80-7 | 80-7 | 80-8 | 80-8 |
| 400.00 | 92-2 | 92-2 | 92-3 | 92-3 | 92-4 | 92-4 | 92-5 | 92-5 | 92-5 | 92-6 |
| 425.00 | 104-10 | 104-11 | 104-11 | 105-0 | 105-0 | 105-1 | 105-2 | 105-2 | 105-2 | 105-3 |
| 450.00 | 118-6 | 118-7 | 118-8 | 118-8 | 118-9 | 118-10 | 118-10 | 118-11 | 118-11 | 119-0 |
| 475.00 | 133-3 | 133-4 | 133-4 | 133-5 | 133-6 | 133-7 | 133-7 | 133-8 | 133-8 | 133-9 |
| 500.00 | 149-0 | 149-1 | 149-2 | 149-3 | 149-4 | 149-5 | 149-5 | 149-6 | 149-7 | 149-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 22-0 | 22-0 | 22-0 | 22-0 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 | 22-1 |
| 225.00 | 27-11 | 27-11 | 28-0 | 28-0 | 28-0 | 28-0 | 28-0 | 28-0 | 28-0 | 28-0 |
| 250.00 | 34-8 | 34-8 | 34-8 | 34-8 | 34-9 | 34-9 | 34-9 | 34-9 | 34-9 | 34-9 |
| 275.00 | 42-2 | 42-2 | 42-2 | 42-3 | 42-3 | 42-3 | 42-3 | 42-3 | 42-3 | 42-4 |
| 300.00 | 50-5 | 50-6 | 50-6 | 50-6 | 50-6 | 50-7 | 50-7 | 50-7 | 50-7 | 50-7 |
| 325.00 | 59-7 | 59-7 | 59-7 | 59-8 | 59-8 | 59-8 | 59-9 | 59-9 | 59-9 | 59-9 |
| 350.00 | 69-6 | 69-7 | 69-7 | 69-8 | 69-8 | 69-8 | 69-9 | 69-9 | 69-9 | 69-9 |
| 375.00 | 80-5 | 80-5 | 80-5 | 80-6 | 80-6 | 80-7 | 80-7 | 80-7 | 80-8 | 80-8 |
| 400.00 | 92-2 | 92-2 | 92-3 | 92-3 | 92-4 | 92-4 | 92-5 | 92-5 | 92-5 | 92-6 |
| 425.00 | 104-10 | 104-11 | 104-11 | 105-0 | 105-1 | 105-1 | 105-2 | 105-2 | 105-2 | 105-3 |
| 450.00 | 118-6 | 118-7 | 118-8 | 118-9 | 118-9 | 118-10 | 118-10 | 118-11 | 118-11 | 119-0 |
| 475.00 | 133-3 | 133-4 | 133-5 | 133-5 | 133-6 | 133-7 | 133-7 | 133-8 | 133-8 | 133-9 |
| 500.00 | 149-0 | 149-1 | 149-2 | 149-3 | 149-4 | 149-5 | 149-5 | 149-6 | 149-7 | 149-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS



OH813.89

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 27-7 | 27-7 | 27-7 | 27-7 | 27-8 | 27-8 | 27-8 | 27-8 | 27-8 | 27-8 |
| 275.00 | 33-6 | 33-6 | 33-6 | 33-6 | 33-6 | 33-7 | 33-7 | 33-7 | 33-7 | 33-7 |
| 300.00 | 40-0 | 40-0 | 40-0 | 40-0 | 40-1 | 40-1 | 40-1 | 40-1 | 40-1 | 40-2 |
| 325.00 | 47-1 | 47-2 | 47-2 | 47-2 | 47-2 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 |
| 350.00 | 54-10 | 54-11 | 54-11 | 54-11 | 55-0 | 55-0 | 55-0 | 55-0 | 55-1 | 55-1 |
| 375.00 | 63-3 | 63-4 | 63-4 | 63-4 | 63-5 | 63-5 | 63-5 | 63-6 | 63-6 | 63-6 |
| 400.00 | 72-4 | 72-4 | 72-5 | 72-5 | 72-6 | 72-6 | 72-6 | 72-7 | 72-7 | 72-7 |
| 425.00 | 82-1 | 82-1 | 82-2 | 82-2 | 82-3 | 82-3 | 82-4 | 82-4 | 82-4 | 82-5 |
| 450.00 | 92-6 | 92-7 | 92-7 | 92-8 | 92-8 | 92-9 | 92-9 | 92-10 | 92-10 | 92-10 |
| 475.00 | 103-8 | 103-9 | 103-9 | 103-10 | 103-11 | 103-11 | 104-0 | 104-0 | 104-1 | 104-1 |
| 500.00 | 115-7 | 115-8 | 115-8 | 115-9 | 115-10 | 115-10 | 115-11 | 116-0 | 116-0 | 116-0 |
| 525.00 | 128-3 | 128-4 | 128-5 | 128-5 | 128-6 | 128-7 | 128-8 | 128-8 | 128-9 | 128-9 |
| 550.00 | 141-8 | 141-9 | 141-10 | 141-11 | 142-0 | 142-1 | 142-1 | 142-2 | 142-3 | 142-3 |
| 575.00 | 155-11 | 156-0 | 156-1 | 156-2 | 156-3 | 156-4 | 156-5 | 156-6 | 156-6 | 156-7 |
| 600.00 | 171-1 | 171-2 | 171-3 | 171-4 | 171-5 | 171-6 | 171-7 | 171-8 | 171-8 | 171-9 |
| 625.00 | 187-0 | 187-1 | 187-2 | 187-4 | 187-5 | 187-6 | 187-7 | 187-8 | 187-9 | 187-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 27-7 | 27-7 | 27-7 | 27-7 | 27-8 | 27-8 | 27-8 | 27-8 | 27-8 | 27-8 |
| 275.00 | 33-6 | 33-6 | 33-6 | 33-6 | 33-7 | 33-7 | 33-7 | 33-7 | 33-7 | 33-7 |
| 300.00 | 40-0 | 40-0 | 40-0 | 40-1 | 40-1 | 40-1 | 40-1 | 40-1 | 40-1 | 40-2 |
| 325.00 | 47-1 | 47-2 | 47-2 | 47-2 | 47-2 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 |
| 350.00 | 54-11 | 54-11 | 54-11 | 54-11 | 55-0 | 55-0 | 55-0 | 55-0 | 55-1 | 55-1 |
| 375.00 | 63-3 | 63-4 | 63-4 | 63-4 | 63-5 | 63-5 | 63-5 | 63-6 | 63-6 | 63-6 |
| 400.00 | 72-4 | 72-5 | 72-5 | 72-5 | 72-6 | 72-6 | 72-6 | 72-7 | 72-7 | 72-7 |
| 425.00 | 82-1 | 82-2 | 82-2 | 82-3 | 82-3 | 82-3 | 82-4 | 82-4 | 82-4 | 82-5 |
| 450.00 | 92-7 | 92-7 | 92-8 | 92-8 | 92-9 | 92-9 | 92-9 | 92-10 | 92-10 | 92-10 |
| 475.00 | 103-8 | 103-9 | 103-10 | 103-10 | 103-11 | 103-11 | 104-0 | 104-0 | 104-1 | 104-1 |
| 500.00 | 115-7 | 115-8 | 115-9 | 115-9 | 115-10 | 115-11 | 115-11 | 116-0 | 116-0 | 116-0 |
| 525.00 | 128-3 | 128-4 | 128-5 | 128-6 | 128-6 | 128-7 | 128-8 | 128-8 | 128-9 | 128-9 |
| 550.00 | 141-9 | 141-9 | 141-10 | 141-11 | 142-0 | 142-1 | 142-1 | 142-2 | 142-3 | 142-3 |
| 575.00 | 156-0 | 156-1 | 156-2 | 156-3 | 156-4 | 156-4 | 156-5 | 156-6 | 156-6 | 156-7 |
| 600.00 | 171-1 | 171-2 | 171-3 | 171-4 | 171-5 | 171-6 | 171-7 | 171-8 | 171-8 | 171-9 |
| 625.00 | 187-0 | 187-2 | 187-3 | 187-4 | 187-5 | 187-6 | 187-7 | 187-8 | 187-9 | 187-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS



OH813.90

TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 4.23 | 1500 | 4.23 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.16 | 343 | 4.14 | 345 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.32 | 330 | 4.31 | 332 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.37 | 327 | 4.36 | 328 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.42 | 323 | 4.41 | 324 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.47 | 319 | 4.46 | 321 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.51 | 317 | 4.51 | 317 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.54 | 315 | 4.54 | 315 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.57 | 313 | 4.57 | 313 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.60 | 311 | 4.60 | 311 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.63 | 309 | 4.63 | 309 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.66 | 307 | 4.66 | 307 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.69 | 305 | 4.69 | 305 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.79 | 298 | 4.79 | 298 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.92 | 291 | 4.92 | 291 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 17.31 | 1500 | 17.31 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.24 | 339 | 17.22 | 339 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.40 | 336 | 17.38 | 336 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.45 | 335 | 17.44 | 335 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.50 | 334 | 17.49 | 334 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.55 | 333 | 17.54 | 333 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.59 | 332 | 17.59 | 332 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.63 | 332 | 17.63 | 332 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.66 | 331 | 17.66 | 331 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.70 | 330 | 17.70 | 330 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.73 | 330 | 17.73 | 330 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.76 | 329 | 17.76 | 329 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.79 | 329 | 17.79 | 329 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 17.90 | 327 | 17.90 | 327 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 18.04 | 325 | 18.04 | 325 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 40.59 | 1500 | 40.59 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.52 | 338 | 40.50 | 338 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.68 | 337 | 40.67 | 337 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.73 | 336 | 40.72 | 337 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.79 | 336 | 40.77 | 336 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.84 | 336 | 40.82 | 336 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.88 | 335 | 40.87 | 335 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.92 | 335 | 40.92 | 335 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.95 | 335 | 40.95 | 335 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 40.98 | 335 | 40.98 | 335 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 41.01 | 334 | 41.01 | 334 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 41.04 | 334 | 41.04 | 334 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 41.07 | 334 | 41.07 | 334 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 41.19 | 333 | 41.19 | 333 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 41.33 | 332 | 41.33 | 332 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 77.38 | 1500 | 77.38 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.31 | 338 | 77.29 | 338 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.47 | 337 | 77.45 | 337 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.52 | 337 | 77.50 | 337 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.57 | 337 | 77.55 | 337 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.62 | 337 | 77.61 | 337 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.66 | 337 | 77.66 | 337 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.70 | 336 | 77.70 | 336 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.73 | 336 | 77.73 | 336 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.76 | 336 | 77.76 | 336 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.80 | 336 | 77.80 | 336 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.83 | 336 | 77.83 | 336 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.86 | 336 | 77.86 | 336 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 77.97 | 336 | 77.97 | 336 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 78.12 | 335 | 78.12 | 335 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 137.21 | 1500 | 137.21 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.14 | 338 | 137.13 | 338 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.30 | 337 | 137.29 | 337 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.35 | 337 | 137.34 | 337 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.40 | 337 | 137.39 | 337 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.45 | 337 | 137.44 | 337 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.49 | 337 | 137.49 | 337 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.53 | 337 | 137.53 | 337 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.56 | 337 | 137.56 | 337 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.59 | 337 | 137.59 | 337 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.62 | 337 | 137.62 | 337 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.65 | 337 | 137.65 | 337 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.68 | 337 | 137.68 | 337 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.80 | 337 | 137.80 | 337 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 137.93 | 337 | 137.93 | 337 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 |
| 100.00 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 |
| 125.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 |
| 150.00 | 9-7 | 9-9 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-5 |
| 175.00 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 |
| 200.00 | 17-2 | 17-4 | 17-7 | 17-9 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 |
| 100.00 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 |
| 125.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 |
| 150.00 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-5 |
| 175.00 | 13-2 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 |
| 200.00 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.94

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 |
| 125.00 | 6-9 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 | 6-11 |
| 150.00 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 |
| 175.00 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-6 |
| 200.00 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-8 | 17-9 |
| 225.00 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 | 22-4 | 22-5 | 22-5 | 22-5 | 22-6 |
| 250.00 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-9 | 27-10 | 27-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 |
| 125.00 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 | 6-11 |
| 150.00 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 |
| 175.00 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-6 |
| 200.00 | 17-4 | 17-5 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-9 |
| 225.00 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 | 22-5 | 22-5 | 22-6 |
| 250.00 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-9 | 27-10 | 27-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.95

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 10-0 | 10-0 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 |
| 175.00 | 13-7 | 13-8 | 13-8 | 13-8 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 |
| 200.00 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 |
| 225.00 | 22-7 | 22-8 | 22-8 | 22-8 | 22-9 | 22-9 | 22-9 | 22-10 | 22-10 | 22-10 |
| 250.00 | 28-0 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 | 28-3 | 28-3 |
| 275.00 | 34-0 | 34-1 | 34-1 | 34-2 | 34-2 | 34-3 | 34-3 | 34-3 | 34-4 | 34-4 |
| 300.00 | 40-7 | 40-8 | 40-9 | 40-9 | 40-10 | 40-10 | 40-11 | 40-11 | 41-0 | 41-0 |
| 325.00 | 47-10 | 47-11 | 48-0 | 48-1 | 48-1 | 48-2 | 48-3 | 48-3 | 48-4 | 48-4 |
| 350.00 | 55-9 | 55-10 | 55-11 | 56-0 | 56-0 | 56-1 | 56-2 | 56-3 | 56-3 | 56-4 |
| 375.00 | 64-4 | 64-5 | 64-6 | 64-7 | 64-8 | 64-9 | 64-9 | 64-10 | 64-11 | 64-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 10-0 | 10-0 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 |
| 175.00 | 13-7 | 13-8 | 13-8 | 13-8 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 |
| 200.00 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 |
| 225.00 | 22-7 | 22-8 | 22-8 | 22-8 | 22-9 | 22-9 | 22-9 | 22-10 | 22-10 | 22-10 |
| 250.00 | 28-0 | 28-1 | 28-1 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 | 28-3 | 28-3 |
| 275.00 | 34-0 | 34-1 | 34-1 | 34-2 | 34-2 | 34-3 | 34-3 | 34-3 | 34-4 | 34-4 |
| 300.00 | 40-8 | 40-8 | 40-9 | 40-9 | 40-10 | 40-11 | 40-11 | 40-11 | 41-0 | 41-0 |
| 325.00 | 47-11 | 47-11 | 48-0 | 48-1 | 48-1 | 48-2 | 48-3 | 48-3 | 48-4 | 48-4 |
| 350.00 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-1 | 56-2 | 56-3 | 56-3 | 56-4 |
| 375.00 | 64-4 | 64-5 | 64-6 | 64-7 | 64-8 | 64-9 | 64-9 | 64-10 | 64-11 | 64-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.96

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-8 | 18-9 | 18-9 | 18-9 | 18-9 | 18-9 | 18-9 | 18-9 | 18-9 | 18-10 |
| 225.00 | 23-9 | 23-9 | 23-9 | 23-9 | 23-10 | 23-10 | 23-10 | 23-10 | 23-10 | 23-10 |
| 250.00 | 29-5 | 29-5 | 29-5 | 29-6 | 29-6 | 29-6 | 29-6 | 29-6 | 29-7 | 29-7 |
| 275.00 | 35-9 | 35-9 | 35-9 | 35-9 | 35-10 | 35-10 | 35-10 | 35-10 | 35-11 | 35-11 |
| 300.00 | 42-8 | 42-9 | 42-9 | 42-9 | 42-10 | 42-10 | 42-10 | 42-10 | 42-11 | 42-11 |
| 325.00 | 50-4 | 50-4 | 50-5 | 50-5 | 50-5 | 50-6 | 50-6 | 50-6 | 50-7 | 50-7 |
| 350.00 | 58-8 | 58-8 | 58-9 | 58-9 | 58-9 | 58-10 | 58-10 | 58-11 | 58-11 | 58-11 |
| 375.00 | 67-8 | 67-8 | 67-9 | 67-9 | 67-10 | 67-11 | 67-11 | 67-11 | 68-0 | 68-0 |
| 400.00 | 77-5 | 77-5 | 77-6 | 77-7 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 | 77-10 |
| 425.00 | 87-11 | 87-11 | 88-0 | 88-1 | 88-1 | 88-2 | 88-3 | 88-3 | 88-4 | 88-4 |
| 450.00 | 99-2 | 99-2 | 99-3 | 99-4 | 99-5 | 99-6 | 99-6 | 99-7 | 99-7 | 99-8 |
| 475.00 | 111-2 | 111-3 | 111-4 | 111-5 | 111-6 | 111-7 | 111-8 | 111-8 | 111-9 | 111-9 |
| 500.00 | 124-1 | 124-2 | 124-3 | 124-4 | 124-5 | 124-6 | 124-7 | 124-7 | 124-8 | 124-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-8 | 18-9 | 18-9 | 18-9 | 18-9 | 18-9 | 18-9 | 18-9 | 18-9 | 18-10 |
| 225.00 | 23-9 | 23-9 | 23-9 | 23-10 | 23-10 | 23-10 | 23-10 | 23-10 | 23-10 | 23-10 |
| 250.00 | 29-5 | 29-5 | 29-5 | 29-6 | 29-6 | 29-6 | 29-6 | 29-6 | 29-7 | 29-7 |
| 275.00 | 35-9 | 35-9 | 35-9 | 35-10 | 35-10 | 35-10 | 35-10 | 35-10 | 35-11 | 35-11 |
| 300.00 | 42-8 | 42-9 | 42-9 | 42-9 | 42-10 | 42-10 | 42-10 | 42-10 | 42-11 | 42-11 |
| 325.00 | 50-4 | 50-4 | 50-5 | 50-5 | 50-5 | 50-6 | 50-6 | 50-6 | 50-7 | 50-7 |
| 350.00 | 58-8 | 58-8 | 58-9 | 58-9 | 58-10 | 58-10 | 58-10 | 58-11 | 58-11 | 58-11 |
| 375.00 | 67-8 | 67-9 | 67-9 | 67-10 | 67-10 | 67-11 | 67-11 | 67-11 | 68-0 | 68-0 |
| 400.00 | 77-5 | 77-6 | 77-6 | 77-7 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 | 77-10 |
| 425.00 | 87-11 | 88-0 | 88-0 | 88-1 | 88-2 | 88-2 | 88-3 | 88-3 | 88-4 | 88-4 |
| 450.00 | 99-2 | 99-3 | 99-4 | 99-4 | 99-5 | 99-6 | 99-6 | 99-7 | 99-7 | 99-8 |
| 475.00 | 111-2 | 111-3 | 111-4 | 111-5 | 111-6 | 111-7 | 111-8 | 111-8 | 111-9 | 111-9 |
| 500.00 | 124-1 | 124-2 | 124-3 | 124-4 | 124-5 | 124-6 | 124-7 | 124-7 | 124-8 | 124-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.97

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-4 |
| 275.00 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-3 | 39-3 | 39-3 | 39-3 | 39-3 |
| 300.00 | 46-10 | 46-10 | 46-10 | 46-10 | 46-11 | 46-11 | 46-11 | 46-11 | 46-11 | 46-11 |
| 325.00 | 55-3 | 55-3 | 55-3 | 55-4 | 55-4 | 55-4 | 55-4 | 55-4 | 55-4 | 55-5 |
| 350.00 | 64-5 | 64-5 | 64-6 | 64-6 | 64-6 | 64-6 | 64-7 | 64-7 | 64-7 | 64-7 |
| 375.00 | 74-5 | 74-5 | 74-6 | 74-6 | 74-6 | 74-7 | 74-7 | 74-7 | 74-7 | 74-7 |
| 400.00 | 85-3 | 85-3 | 85-3 | 85-4 | 85-4 | 85-4 | 85-5 | 85-5 | 85-5 | 85-5 |
| 425.00 | 96-11 | 96-11 | 96-11 | 97-0 | 97-0 | 97-1 | 97-1 | 97-1 | 97-1 | 97-2 |
| 450.00 | 109-5 | 109-5 | 109-6 | 109-6 | 109-7 | 109-7 | 109-8 | 109-8 | 109-8 | 109-9 |
| 475.00 | 122-10 | 122-11 | 122-11 | 123-0 | 123-0 | 123-1 | 123-1 | 123-2 | 123-2 | 123-2 |
| 500.00 | 137-3 | 137-3 | 137-4 | 137-5 | 137-5 | 137-6 | 137-6 | 137-7 | 137-7 | 137-7 |
| 525.00 | 152-7 | 152-8 | 152-9 | 152-9 | 152-10 | 152-11 | 152-11 | 153-0 | 153-0 | 153-0 |
| 550.00 | 169-0 | 169-1 | 169-1 | 169-2 | 169-3 | 169-4 | 169-4 | 169-5 | 169-5 | 169-6 |
| 575.00 | 186-5 | 186-6 | 186-7 | 186-8 | 186-9 | 186-9 | 186-10 | 186-11 | 186-11 | 187-0 |
| 600.00 | 205-0 | 205-1 | 205-2 | 205-3 | 205-4 | 205-5 | 205-5 | 205-6 | 205-7 | 205-7 |
| 625.00 | 224-8 | 224-9 | 224-10 | 224-11 | 225-1 | 225-2 | 225-3 | 225-3 | 225-4 | 225-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-3 | 32-4 |
| 275.00 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-3 | 39-3 | 39-3 | 39-3 | 39-3 |
| 300.00 | 46-10 | 46-10 | 46-10 | 46-10 | 46-11 | 46-11 | 46-11 | 46-11 | 46-11 | 46-11 |
| 325.00 | 55-3 | 55-3 | 55-3 | 55-4 | 55-4 | 55-4 | 55-4 | 55-4 | 55-4 | 55-5 |
| 350.00 | 64-5 | 64-6 | 64-6 | 64-6 | 64-6 | 64-7 | 64-7 | 64-7 | 64-7 | 64-7 |
| 375.00 | 74-5 | 74-5 | 74-6 | 74-6 | 74-6 | 74-7 | 74-7 | 74-7 | 74-7 | 74-7 |
| 400.00 | 85-3 | 85-3 | 85-3 | 85-4 | 85-4 | 85-4 | 85-5 | 85-5 | 85-5 | 85-5 |
| 425.00 | 96-11 | 96-11 | 96-11 | 97-0 | 97-0 | 97-1 | 97-1 | 97-1 | 97-1 | 97-2 |
| 450.00 | 109-5 | 109-6 | 109-6 | 109-6 | 109-7 | 109-7 | 109-8 | 109-8 | 109-8 | 109-9 |
| 475.00 | 122-10 | 122-11 | 122-11 | 123-0 | 123-0 | 123-1 | 123-1 | 123-2 | 123-2 | 123-2 |
| 500.00 | 137-3 | 137-4 | 137-4 | 137-5 | 137-5 | 137-6 | 137-6 | 137-7 | 137-7 | 137-7 |
| 525.00 | 152-7 | 152-8 | 152-9 | 152-9 | 152-10 | 152-11 | 152-11 | 153-0 | 153-0 | 153-0 |
| 550.00 | 169-0 | 169-1 | 169-2 | 169-2 | 169-3 | 169-4 | 169-4 | 169-5 | 169-5 | 169-6 |
| 575.00 | 186-5 | 186-6 | 186-7 | 186-8 | 186-9 | 186-10 | 186-10 | 186-11 | 186-11 | 187-0 |
| 600.00 | 205-0 | 205-1 | 205-2 | 205-3 | 205-4 | 205-5 | 205-5 | 205-6 | 205-7 | 205-7 |
| 625.00 | 224-9 | 224-10 | 224-11 | 225-0 | 225-1 | 225-2 | 225-3 | 225-3 | 225-4 | 225-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 3.16 | 2000 | 3.16 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.04 | 468 | 3.01 | 473 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.26 | 437 | 3.23 | 441 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.32 | 428 | 3.30 | 432 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.39 | 420 | 3.36 | 424 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.45 | 412 | 3.43 | 416 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.52 | 405 | 3.49 | 408 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.55 | 401 | 3.55 | 401 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.60 | 396 | 3.60 | 396 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.63 | 392 | 3.63 | 392 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.67 | 388 | 3.67 | 388 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.71 | 385 | 3.71 | 385 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.74 | 381 | 3.74 | 381 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.87 | 369 | 3.87 | 369 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 4.02 | 355 | 4.02 | 355 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 12.81 | 2000 | 12.81 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.69 | 454 | 12.66 | 455 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.90 | 447 | 12.88 | 448 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 12.97 | 444 | 12.94 | 445 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.04 | 442 | 13.01 | 443 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.11 | 440 | 13.08 | 441 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.18 | 438 | 13.15 | 439 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.23 | 436 | 13.22 | 437 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.28 | 434 | 13.28 | 434 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.32 | 433 | 13.32 | 433 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.36 | 432 | 13.36 | 432 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.40 | 431 | 13.40 | 431 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.44 | 429 | 13.44 | 429 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.59 | 425 | 13.59 | 425 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 13.77 | 420 | 13.77 | 420 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 29.45 | 2000 | 29.45 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.33 | 452 | 29.30 | 452 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.55 | 449 | 29.52 | 449 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.61 | 448 | 29.59 | 448 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.68 | 447 | 29.66 | 447 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.75 | 446 | 29.72 | 446 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.82 | 445 | 29.79 | 445 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.88 | 444 | 29.86 | 444 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.93 | 443 | 29.93 | 443 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 29.97 | 443 | 29.97 | 443 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 30.02 | 442 | 30.02 | 442 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 30.06 | 442 | 30.06 | 442 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 30.10 | 441 | 30.10 | 441 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 30.25 | 439 | 30.25 | 439 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 30.44 | 436 | 30.44 | 436 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 54.12 | 2000 | 54.12 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.00 | 451 | 53.97 | 451 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.21 | 449 | 54.19 | 449 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.28 | 449 | 54.25 | 449 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.35 | 448 | 54.32 | 448 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.42 | 448 | 54.39 | 448 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.49 | 447 | 54.46 | 448 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.55 | 447 | 54.53 | 447 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.60 | 447 | 54.60 | 447 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.64 | 446 | 54.64 | 446 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.69 | 446 | 54.69 | 446 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.73 | 446 | 54.73 | 446 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.77 | 445 | 54.77 | 445 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.92 | 444 | 54.92 | 444 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.11 | 443 | 55.11 | 443 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 88.79 | 2000 | 88.79 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 88.67 | 450 | 88.64 | 451 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 88.88 | 450 | 88.85 | 450 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 88.95 | 449 | 88.92 | 449 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.02 | 449 | 88.99 | 449 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.09 | 449 | 89.06 | 449 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.16 | 449 | 89.13 | 449 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.21 | 448 | 89.19 | 448 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.26 | 448 | 89.26 | 448 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.31 | 448 | 89.31 | 448 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.35 | 448 | 89.35 | 448 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.39 | 448 | 89.39 | 448 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.43 | 447 | 89.43 | 447 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.59 | 447 | 89.59 | 447 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 89.78 | 446 | 89.78 | 446 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 |
| 100.00 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 |
| 125.00 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-7 | 5-8 | 5-8 | 5-9 |
| 150.00 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 | 8-3 |
| 175.00 | 9-8 | 9-11 | 10-1 | 10-4 | 10-6 | 10-9 | 10-11 | 11-1 | 11-2 | 11-3 |
| 200.00 | 12-8 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 | 14-7 | 14-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 |
| 100.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 |
| 125.00 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 |
| 150.00 | 7-2 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 175.00 | 9-10 | 10-0 | 10-3 | 10-5 | 10-7 | 10-10 | 10-11 | 11-1 | 11-2 | 11-3 |
| 200.00 | 12-10 | 13-1 | 13-4 | 13-7 | 13-11 | 14-2 | 14-3 | 14-6 | 14-7 | 14-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 |
| 125.00 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 |
| 150.00 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 |
| 175.00 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 |
| 200.00 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 |
| 225.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 16-11 |
| 250.00 | 20-1 | 20-2 | 20-3 | 20-5 | 20-6 | 20-7 | 20-9 | 20-10 | 20-11 | 20-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-4 |
| 125.00 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 | 5-2 |
| 150.00 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 |
| 175.00 | 9-10 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 |
| 200.00 | 12-10 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 |
| 225.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 16-11 |
| 250.00 | 20-1 | 20-3 | 20-4 | 20-5 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 20-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS



OH813.103

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-4 | 7-4 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-5 | 7-5 |
| 175.00 | 9-11 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-2 |
| 200.00 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-2 | 13-2 | 13-2 | 13-3 | 13-3 |
| 225.00 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 |
| 250.00 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-9 | 20-9 |
| 275.00 | 24-8 | 24-9 | 24-10 | 24-10 | 24-11 | 25-0 | 25-0 | 25-1 | 25-2 | 25-2 |
| 300.00 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-10 | 29-11 | 30-0 | 30-0 |
| 325.00 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-1 | 35-1 | 35-2 | 35-3 | 35-4 |
| 350.00 | 40-3 | 40-4 | 40-5 | 40-7 | 40-8 | 40-9 | 40-10 | 40-11 | 41-0 | 41-1 |
| 375.00 | 46-4 | 46-5 | 46-7 | 46-8 | 46-9 | 46-11 | 47-0 | 47-1 | 47-2 | 47-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-4 | 7-4 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-5 | 7-5 |
| 175.00 | 9-11 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-2 |
| 200.00 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-2 | 13-2 | 13-3 | 13-3 |
| 225.00 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-9 |
| 250.00 | 20-5 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 | 20-8 | 20-8 | 20-9 | 20-9 |
| 275.00 | 24-9 | 24-9 | 24-10 | 24-11 | 24-11 | 25-0 | 25-1 | 25-1 | 25-2 | 25-2 |
| 300.00 | 29-6 | 29-7 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 29-11 | 30-0 | 30-0 |
| 325.00 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 |
| 350.00 | 40-4 | 40-5 | 40-6 | 40-7 | 40-8 | 40-9 | 40-10 | 40-11 | 41-0 | 41-1 |
| 375.00 | 46-5 | 46-6 | 46-7 | 46-9 | 46-10 | 46-11 | 47-0 | 47-1 | 47-2 | 47-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS



OH813.104

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 13-4 | 13-4 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-5 | 13-5 |
| 225.00 | 16-10 | 16-10 | 16-11 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-0 |
| 250.00 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-0 | 21-1 |
| 275.00 | 25-3 | 25-4 | 25-4 | 25-4 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 | 25-6 |
| 300.00 | 30-2 | 30-2 | 30-2 | 30-3 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 | 30-5 |
| 325.00 | 35-5 | 35-6 | 35-6 | 35-7 | 35-7 | 35-8 | 35-9 | 35-9 | 35-9 | 35-10 |
| 350.00 | 41-2 | 41-3 | 41-4 | 41-4 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 | 41-8 |
| 375.00 | 47-5 | 47-6 | 47-7 | 47-7 | 47-8 | 47-9 | 47-9 | 47-10 | 47-11 | 47-11 |
| 400.00 | 54-1 | 54-2 | 54-3 | 54-4 | 54-5 | 54-6 | 54-6 | 54-7 | 54-8 | 54-8 |
| 425.00 | 61-3 | 61-4 | 61-5 | 61-6 | 61-7 | 61-8 | 61-9 | 61-10 | 61-11 | 61-11 |
| 450.00 | 68-11 | 69-0 | 69-1 | 69-2 | 69-3 | 69-4 | 69-5 | 69-6 | 69-7 | 69-8 |
| 475.00 | 77-0 | 77-2 | 77-3 | 77-4 | 77-5 | 77-6 | 77-8 | 77-9 | 77-10 | 77-10 |
| 500.00 | 85-8 | 85-9 | 85-11 | 86-0 | 86-1 | 86-3 | 86-4 | 86-5 | 86-6 | 86-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 13-4 | 13-4 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-5 | 13-5 |
| 225.00 | 16-10 | 16-11 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-0 | 17-0 |
| 250.00 | 20-10 | 20-11 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-0 | 21-1 |
| 275.00 | 25-3 | 25-4 | 25-4 | 25-4 | 25-5 | 25-5 | 25-6 | 25-6 | 25-6 | 25-6 |
| 300.00 | 30-2 | 30-2 | 30-3 | 30-3 | 30-4 | 30-4 | 30-4 | 30-5 | 30-5 | 30-5 |
| 325.00 | 35-6 | 35-6 | 35-7 | 35-7 | 35-8 | 35-8 | 35-9 | 35-9 | 35-9 | 35-10 |
| 350.00 | 41-3 | 41-3 | 41-4 | 41-5 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 | 41-8 |
| 375.00 | 47-5 | 47-6 | 47-7 | 47-8 | 47-8 | 47-9 | 47-10 | 47-10 | 47-11 | 47-11 |
| 400.00 | 54-2 | 54-3 | 54-3 | 54-4 | 54-5 | 54-6 | 54-7 | 54-7 | 54-8 | 54-8 |
| 425.00 | 61-4 | 61-5 | 61-6 | 61-7 | 61-7 | 61-8 | 61-9 | 61-10 | 61-11 | 61-11 |
| 450.00 | 68-11 | 69-0 | 69-2 | 69-3 | 69-4 | 69-5 | 69-6 | 69-6 | 69-7 | 69-8 |
| 475.00 | 77-1 | 77-2 | 77-3 | 77-5 | 77-6 | 77-7 | 77-8 | 77-9 | 77-10 | 77-10 |
| 500.00 | 85-9 | 85-10 | 85-11 | 86-1 | 86-2 | 86-3 | 86-4 | 86-5 | 86-6 | 86-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 21-7 | 21-7 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 |
| 275.00 | 26-2 | 26-2 | 26-2 | 26-2 | 26-3 | 26-3 | 26-3 | 26-3 | 26-3 | 26-4 |
| 300.00 | 31-2 | 31-2 | 31-3 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-4 | 31-4 |
| 325.00 | 36-8 | 36-9 | 36-9 | 36-9 | 36-9 | 36-10 | 36-10 | 36-10 | 36-11 | 36-11 |
| 350.00 | 42-8 | 42-8 | 42-9 | 42-9 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 42-11 |
| 375.00 | 49-1 | 49-2 | 49-2 | 49-3 | 49-3 | 49-3 | 49-4 | 49-4 | 49-5 | 49-5 |
| 400.00 | 56-0 | 56-1 | 56-1 | 56-2 | 56-2 | 56-3 | 56-3 | 56-4 | 56-4 | 56-5 |
| 425.00 | 63-6 | 63-6 | 63-7 | 63-7 | 63-8 | 63-8 | 63-9 | 63-10 | 63-10 | 63-10 |
| 450.00 | 71-5 | 71-5 | 71-6 | 71-7 | 71-7 | 71-8 | 71-9 | 71-9 | 71-10 | 71-10 |
| 475.00 | 79-10 | 79-11 | 79-11 | 80-0 | 80-1 | 80-2 | 80-2 | 80-3 | 80-4 | 80-4 |
| 500.00 | 88-9 | 88-10 | 88-11 | 89-0 | 89-1 | 89-2 | 89-2 | 89-3 | 89-4 | 89-4 |
| 525.00 | 98-3 | 98-4 | 98-5 | 98-6 | 98-7 | 98-8 | 98-9 | 98-10 | 98-10 | 98-11 |
| 550.00 | 108-4 | 108-5 | 108-6 | 108-7 | 108-8 | 108-9 | 108-10 | 108-11 | 108-11 | 109-0 |
| 575.00 | 118-11 | 119-0 | 119-1 | 119-2 | 119-3 | 119-4 | 119-5 | 119-7 | 119-7 | 119-8 |
| 600.00 | 130-0 | 130-2 | 130-3 | 130-4 | 130-5 | 130-7 | 130-8 | 130-9 | 130-10 | 130-11 |
| 625.00 | 141-9 | 141-11 | 142-0 | 142-1 | 142-3 | 142-4 | 142-5 | 142-7 | 142-8 | 142-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 21-7 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 |
| 275.00 | 26-2 | 26-2 | 26-2 | 26-2 | 26-3 | 26-3 | 26-3 | 26-3 | 26-3 | 26-4 |
| 300.00 | 31-2 | 31-3 | 31-3 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-4 | 31-4 |
| 325.00 | 36-8 | 36-9 | 36-9 | 36-9 | 36-10 | 36-10 | 36-10 | 36-10 | 36-11 | 36-11 |
| 350.00 | 42-8 | 42-8 | 42-9 | 42-9 | 42-10 | 42-10 | 42-10 | 42-11 | 42-11 | 42-11 |
| 375.00 | 49-1 | 49-2 | 49-2 | 49-3 | 49-3 | 49-4 | 49-4 | 49-4 | 49-5 | 49-5 |
| 400.00 | 56-1 | 56-1 | 56-2 | 56-2 | 56-3 | 56-3 | 56-4 | 56-4 | 56-4 | 56-5 |
| 425.00 | 63-6 | 63-6 | 63-7 | 63-8 | 63-8 | 63-9 | 63-9 | 63-10 | 63-10 | 63-10 |
| 450.00 | 71-5 | 71-6 | 71-6 | 71-7 | 71-8 | 71-8 | 71-9 | 71-9 | 71-10 | 71-10 |
| 475.00 | 79-10 | 79-11 | 80-0 | 80-0 | 80-1 | 80-2 | 80-3 | 80-3 | 80-4 | 80-4 |
| 500.00 | 88-10 | 88-11 | 88-11 | 89-0 | 89-1 | 89-2 | 89-3 | 89-3 | 89-4 | 89-4 |
| 525.00 | 98-4 | 98-5 | 98-5 | 98-6 | 98-7 | 98-8 | 98-9 | 98-10 | 98-10 | 98-11 |
| 550.00 | 108-4 | 108-5 | 108-6 | 108-7 | 108-8 | 108-9 | 108-10 | 108-11 | 108-11 | 109-0 |
| 575.00 | 118-11 | 119-0 | 119-1 | 119-2 | 119-4 | 119-5 | 119-6 | 119-7 | 119-7 | 119-8 |
| 600.00 | 130-1 | 130-2 | 130-3 | 130-5 | 130-6 | 130-7 | 130-8 | 130-9 | 130-10 | 130-11 |
| 625.00 | 141-10 | 141-11 | 142-0 | 142-2 | 142-3 | 142-5 | 142-6 | 142-7 | 142-8 | 142-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 2.53 | 2500 | 2.53 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.34 | 606 | 2.29 | 620 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.61 | 545 | 2.56 | 554 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.69 | 528 | 2.65 | 537 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.77 | 513 | 2.73 | 521 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.85 | 499 | 2.80 | 507 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.92 | 487 | 2.88 | 494 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.99 | 476 | 2.95 | 481 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.03 | 469 | 3.03 | 470 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.08 | 462 | 3.08 | 462 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.12 | 456 | 3.12 | 456 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.16 | 450 | 3.16 | 450 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.20 | 445 | 3.20 | 445 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.35 | 425 | 3.35 | 425 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.52 | 405 | 3.52 | 405 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 10.19 | 2500 | 10.19 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.00 | 573 | 9.95 | 575 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.27 | 558 | 10.22 | 560 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.36 | 553 | 10.31 | 556 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.44 | 549 | 10.40 | 551 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.53 | 545 | 10.48 | 547 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.61 | 540 | 10.56 | 543 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.69 | 536 | 10.65 | 539 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.76 | 533 | 10.73 | 535 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.81 | 531 | 10.81 | 531 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.87 | 528 | 10.87 | 528 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.92 | 526 | 10.92 | 526 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 10.96 | 523 | 10.96 | 523 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.14 | 515 | 11.14 | 515 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 11.36 | 506 | 11.36 | 506 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 23.23 | 2500 | 23.23 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.05 | 567 | 23.00 | 568 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.31 | 560 | 23.27 | 562 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.40 | 559 | 23.35 | 560 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.48 | 557 | 23.44 | 558 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.57 | 555 | 23.52 | 556 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.66 | 553 | 23.61 | 554 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.74 | 551 | 23.69 | 552 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.81 | 549 | 23.78 | 550 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.87 | 548 | 23.86 | 548 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.93 | 547 | 23.93 | 547 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 23.98 | 546 | 23.98 | 546 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 24.03 | 544 | 24.03 | 544 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 24.22 | 540 | 24.22 | 540 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 24.45 | 536 | 24.45 | 536 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 42.12 | 2500 | 42.12 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 41.94 | 565 | 41.89 | 565 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.20 | 561 | 42.16 | 562 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.29 | 560 | 42.24 | 561 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.38 | 559 | 42.33 | 560 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.46 | 558 | 42.42 | 559 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.55 | 557 | 42.50 | 558 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.64 | 556 | 42.59 | 557 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.71 | 555 | 42.67 | 556 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.76 | 555 | 42.76 | 555 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.83 | 554 | 42.83 | 554 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.88 | 553 | 42.88 | 553 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 42.93 | 553 | 42.93 | 553 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 43.13 | 550 | 43.13 | 550 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 43.36 | 548 | 43.36 | 548 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 67.65 | 2500 | 67.65 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 67.47 | 564 | 67.42 | 564 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 67.73 | 562 | 67.69 | 562 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 67.82 | 561 | 67.77 | 562 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 67.91 | 561 | 67.86 | 561 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 67.99 | 560 | 67.94 | 560 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.08 | 559 | 68.03 | 560 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.16 | 559 | 68.12 | 559 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.24 | 558 | 68.20 | 558 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.29 | 558 | 68.29 | 558 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.36 | 557 | 68.36 | 557 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.41 | 557 | 68.41 | 557 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.46 | 557 | 68.46 | 557 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.66 | 555 | 68.66 | 555 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 68.89 | 554 | 68.89 | 554 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 |
| 100.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-1 |
| 125.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 |
| 150.00 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-0 |
| 175.00 | 7-7 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-5 | 9-7 |
| 200.00 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-10 | 12-2 | 12-4 | 12-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 |
| 100.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 125.00 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 150.00 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 |
| 175.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 |
| 200.00 | 10-1 | 10-6 | 10-10 | 11-1 | 11-5 | 11-9 | 12-0 | 12-2 | 12-4 | 12-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 |
| 125.00 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 150.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 |
| 175.00 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 |
| 200.00 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 |
| 225.00 | 12-10 | 12-11 | 13-1 | 13-2 | 13-3 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 |
| 250.00 | 15-10 | 16-0 | 16-2 | 16-3 | 16-5 | 16-6 | 16-8 | 16-10 | 16-11 | 17-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 |
| 125.00 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 |
| 150.00 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 |
| 175.00 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 |
| 200.00 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 |
| 225.00 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-8 | 13-9 |
| 250.00 | 15-11 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 |
| 175.00 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 |
| 200.00 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 |
| 225.00 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 |
| 250.00 | 16-1 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-6 | 16-7 |
| 275.00 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 19-11 | 20-0 | 20-1 |
| 300.00 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 |
| 325.00 | 27-3 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 28-1 | 28-2 |
| 350.00 | 31-8 | 31-9 | 31-11 | 32-0 | 32-1 | 32-3 | 32-4 | 32-6 | 32-7 | 32-8 |
| 375.00 | 36-5 | 36-6 | 36-8 | 36-9 | 36-11 | 37-1 | 37-2 | 37-4 | 37-6 | 37-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-9 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 |
| 175.00 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 |
| 200.00 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 |
| 225.00 | 13-0 | 13-1 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 |
| 250.00 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 |
| 275.00 | 19-6 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 | 19-11 | 20-0 | 20-0 | 20-1 |
| 300.00 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-10 | 23-11 |
| 325.00 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 |
| 350.00 | 31-8 | 31-10 | 31-11 | 32-1 | 32-2 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 |
| 375.00 | 36-5 | 36-7 | 36-9 | 36-10 | 37-0 | 37-2 | 37-3 | 37-5 | 37-6 | 37-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 |
| 225.00 | 13-2 | 13-3 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 |
| 250.00 | 16-4 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 |
| 275.00 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 |
| 300.00 | 23-6 | 23-7 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 | 23-10 | 23-11 | 23-11 |
| 325.00 | 27-8 | 27-8 | 27-9 | 27-10 | 27-10 | 27-11 | 28-0 | 28-0 | 28-1 | 28-2 |
| 350.00 | 32-1 | 32-2 | 32-3 | 32-4 | 32-4 | 32-5 | 32-6 | 32-7 | 32-7 | 32-8 |
| 375.00 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-3 | 37-4 | 37-5 | 37-6 | 37-7 |
| 400.00 | 42-1 | 42-2 | 42-3 | 42-4 | 42-5 | 42-6 | 42-7 | 42-8 | 42-9 | 42-10 |
| 425.00 | 47-7 | 47-8 | 47-9 | 47-11 | 48-0 | 48-1 | 48-2 | 48-3 | 48-4 | 48-5 |
| 450.00 | 53-5 | 53-7 | 53-8 | 53-9 | 53-11 | 54-0 | 54-1 | 54-3 | 54-4 | 54-5 |
| 475.00 | 59-8 | 59-10 | 59-11 | 60-1 | 60-2 | 60-4 | 60-5 | 60-6 | 60-8 | 60-9 |
| 500.00 | 66-3 | 66-5 | 66-7 | 66-8 | 66-10 | 66-11 | 67-1 | 67-3 | 67-4 | 67-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-7 |
| 225.00 | 13-2 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 |
| 250.00 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 |
| 275.00 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 |
| 300.00 | 23-7 | 23-7 | 23-8 | 23-8 | 23-9 | 23-9 | 23-10 | 23-10 | 23-11 | 23-11 |
| 325.00 | 27-8 | 27-9 | 27-9 | 27-10 | 27-11 | 27-11 | 28-0 | 28-1 | 28-1 | 28-2 |
| 350.00 | 32-2 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-6 | 32-7 | 32-8 | 32-8 |
| 375.00 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 | 37-6 | 37-7 |
| 400.00 | 42-1 | 42-2 | 42-3 | 42-5 | 42-6 | 42-7 | 42-8 | 42-9 | 42-9 | 42-10 |
| 425.00 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 | 48-2 | 48-3 | 48-4 | 48-4 | 48-5 |
| 450.00 | 53-6 | 53-7 | 53-9 | 53-10 | 53-11 | 54-1 | 54-2 | 54-3 | 54-4 | 54-5 |
| 475.00 | 59-9 | 59-10 | 60-0 | 60-1 | 60-3 | 60-4 | 60-6 | 60-7 | 60-8 | 60-9 |
| 500.00 | 66-4 | 66-6 | 66-7 | 66-9 | 66-11 | 67-0 | 67-2 | 67-4 | 67-5 | 67-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-7 | 16-8 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-9 | 16-9 |
| 275.00 | 20-1 | 20-2 | 20-2 | 20-2 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 |
| 300.00 | 24-0 | 24-0 | 24-0 | 24-1 | 24-1 | 24-2 | 24-2 | 24-2 | 24-3 | 24-3 |
| 325.00 | 28-2 | 28-3 | 28-3 | 28-3 | 28-4 | 28-4 | 28-5 | 28-5 | 28-6 | 28-6 |
| 350.00 | 32-9 | 32-9 | 32-10 | 32-10 | 32-11 | 32-11 | 33-0 | 33-0 | 33-1 | 33-1 |
| 375.00 | 37-8 | 37-8 | 37-9 | 37-9 | 37-10 | 37-11 | 37-11 | 38-0 | 38-0 | 38-1 |
| 400.00 | 42-11 | 43-0 | 43-0 | 43-1 | 43-1 | 43-2 | 43-3 | 43-3 | 43-4 | 43-5 |
| 425.00 | 48-6 | 48-7 | 48-8 | 48-9 | 48-9 | 48-10 | 48-11 | 48-11 | 49-0 | 49-1 |
| 450.00 | 54-6 | 54-7 | 54-8 | 54-9 | 54-9 | 54-10 | 54-11 | 55-0 | 55-1 | 55-1 |
| 475.00 | 60-10 | 60-11 | 61-0 | 61-1 | 61-2 | 61-3 | 61-4 | 61-5 | 61-6 | 61-7 |
| 500.00 | 67-7 | 67-8 | 67-9 | 67-10 | 67-11 | 68-0 | 68-1 | 68-2 | 68-3 | 68-4 |
| 525.00 | 74-8 | 74-10 | 74-11 | 75-0 | 75-1 | 75-2 | 75-3 | 75-4 | 75-6 | 75-7 |
| 550.00 | 82-2 | 82-4 | 82-5 | 82-6 | 82-7 | 82-9 | 82-10 | 82-11 | 83-0 | 83-2 |
| 575.00 | 90-1 | 90-2 | 90-4 | 90-5 | 90-6 | 90-8 | 90-9 | 90-11 | 91-0 | 91-1 |
| 600.00 | 98-4 | 98-6 | 98-7 | 98-9 | 98-10 | 99-0 | 99-1 | 99-3 | 99-4 | 99-6 |
| 625.00 | 107-0 | 107-2 | 107-3 | 107-5 | 107-7 | 107-8 | 107-10 | 108-0 | 108-1 | 108-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-7 | 16-8 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-9 | 16-9 |
| 275.00 | 20-2 | 20-2 | 20-2 | 20-3 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 |
| 300.00 | 24-0 | 24-0 | 24-1 | 24-1 | 24-1 | 24-2 | 24-2 | 24-2 | 24-3 | 24-3 |
| 325.00 | 28-2 | 28-3 | 28-3 | 28-4 | 28-4 | 28-5 | 28-5 | 28-5 | 28-6 | 28-6 |
| 350.00 | 32-9 | 32-10 | 32-10 | 32-11 | 32-11 | 33-0 | 33-0 | 33-0 | 33-1 | 33-1 |
| 375.00 | 37-8 | 37-9 | 37-9 | 37-10 | 37-10 | 37-11 | 37-11 | 38-0 | 38-0 | 38-1 |
| 400.00 | 42-11 | 43-0 | 43-0 | 43-1 | 43-2 | 43-2 | 43-3 | 43-4 | 43-4 | 43-5 |
| 425.00 | 48-7 | 48-7 | 48-8 | 48-9 | 48-10 | 48-10 | 48-11 | 49-0 | 49-0 | 49-1 |
| 450.00 | 54-7 | 54-7 | 54-8 | 54-9 | 54-10 | 54-11 | 55-0 | 55-0 | 55-1 | 55-1 |
| 475.00 | 60-11 | 61-0 | 61-1 | 61-2 | 61-3 | 61-4 | 61-5 | 61-5 | 61-6 | 61-7 |
| 500.00 | 67-8 | 67-9 | 67-10 | 67-11 | 68-0 | 68-1 | 68-2 | 68-3 | 68-4 | 68-4 |
| 525.00 | 74-9 | 74-10 | 74-11 | 75-1 | 75-2 | 75-3 | 75-4 | 75-5 | 75-6 | 75-7 |
| 550.00 | 82-3 | 82-4 | 82-6 | 82-7 | 82-8 | 82-9 | 82-11 | 83-0 | 83-1 | 83-2 |
| 575.00 | 90-2 | 90-3 | 90-4 | 90-6 | 90-7 | 90-9 | 90-10 | 90-11 | 91-0 | 91-1 |
| 600.00 | 98-5 | 98-6 | 98-8 | 98-10 | 98-11 | 99-1 | 99-2 | 99-3 | 99-4 | 99-6 |
| 625.00 | 107-1 | 107-3 | 107-4 | 107-6 | 107-8 | 107-9 | 107-11 | 108-1 | 108-2 | 108-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 2.10 | 3000 | 2.10 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 1.84 | 771 | 1.77 | 803 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.16 | 657 | 2.10 | 678 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.26 | 629 | 2.19 | 647 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.35 | 604 | 2.29 | 621 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.44 | 582 | 2.38 | 597 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.53 | 562 | 2.47 | 576 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.61 | 544 | 2.55 | 557 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.67 | 533 | 2.64 | 539 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.72 | 523 | 2.72 | 523 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.77 | 514 | 2.77 | 514 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.81 | 506 | 2.81 | 506 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 2.85 | 498 | 2.85 | 498 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.01 | 472 | 3.01 | 472 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 3.20 | 445 | 3.20 | 445 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 8.46 | 3000 | 8.46 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.20 | 696 | 8.13 | 702 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.52 | 670 | 8.45 | 676 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.62 | 663 | 8.56 | 668 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.72 | 655 | 8.66 | 660 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.82 | 648 | 8.76 | 652 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 8.92 | 640 | 8.86 | 645 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.02 | 634 | 8.95 | 638 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.12 | 627 | 9.05 | 632 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.19 | 622 | 9.15 | 625 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.25 | 618 | 9.24 | 619 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.31 | 614 | 9.31 | 614 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.37 | 611 | 9.37 | 611 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.57 | 598 | 9.57 | 598 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 9.82 | 583 | 9.82 | 583 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 19.21 | 3000 | 19.21 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 18.96 | 684 | 18.88 | 686 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.27 | 673 | 19.20 | 675 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.38 | 669 | 19.31 | 672 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.48 | 666 | 19.41 | 668 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.58 | 663 | 19.51 | 665 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.68 | 659 | 19.61 | 662 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.79 | 656 | 19.72 | 658 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.89 | 653 | 19.82 | 655 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 19.97 | 650 | 19.92 | 652 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.03 | 648 | 20.02 | 649 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.11 | 646 | 20.11 | 646 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.17 | 644 | 20.17 | 644 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.39 | 637 | 20.39 | 637 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 20.65 | 629 | 20.65 | 629 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 34.61 | 3000 | 34.61 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.36 | 680 | 34.28 | 681 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.67 | 674 | 34.60 | 675 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.78 | 672 | 34.71 | 673 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.88 | 670 | 34.81 | 671 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 34.98 | 668 | 34.91 | 669 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.09 | 666 | 35.02 | 668 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.19 | 665 | 35.12 | 666 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.29 | 663 | 35.22 | 664 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.38 | 661 | 35.32 | 662 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.45 | 660 | 35.43 | 660 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.52 | 659 | 35.52 | 659 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.58 | 658 | 35.58 | 658 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 35.81 | 654 | 35.81 | 654 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 36.09 | 649 | 36.09 | 649 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 5.041 | 55.06 | 3000 | 55.06 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 1.134 | 54.81 | 678 | 54.73 | 679 |
| 30.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.12 | 674 | 55.06 | 675 |
| 40.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.23 | 673 | 55.16 | 674 |
| 50.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.33 | 672 | 55.26 | 673 |
| 60.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.43 | 671 | 55.37 | 672 |
| 70.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.54 | 670 | 55.47 | 670 |
| 80.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.64 | 669 | 55.57 | 669 |
| 90.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.74 | 667 | 55.67 | 668 |
| 100.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.84 | 666 | 55.78 | 667 |
| 110.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.90 | 666 | 55.88 | 666 |
| 120.0 | 0.00 | 0.00 | 0.00 | 1.134 | 55.98 | 665 | 55.98 | 665 |
| 130.0 | 0.00 | 0.00 | 0.00 | 1.134 | 56.04 | 664 | 56.04 | 664 |
| 167.0 | 0.00 | 0.00 | 0.00 | 1.134 | 56.27 | 662 | 56.27 | 662 |
| 212.0 | 0.00 | 0.00 | 0.00 | 1.134 | 56.55 | 659 | 56.55 | 659 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 125.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 |
| 150.00 | 4-6 | 4-9 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 |
| 175.00 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 | 8-6 |
| 200.00 | 8-0 | 8-5 | 8-9 | 9-2 | 9-6 | 9-11 | 10-3 | 10-7 | 10-11 | 11-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 125.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 |
| 150.00 | 4-8 | 4-10 | 5-1 | 5-4 | 5-6 | 5-8 | 5-11 | 6-0 | 6-1 | 6-3 |
| 175.00 | 6-4 | 6-7 | 6-11 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 |
| 200.00 | 8-3 | 8-8 | 9-1 | 9-5 | 9-9 | 10-2 | 10-6 | 10-9 | 10-11 | 11-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 |
| 125.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 |
| 150.00 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 |
| 175.00 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 200.00 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 |
| 225.00 | 10-7 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 |
| 250.00 | 13-1 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 |
| 125.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 |
| 150.00 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 |
| 175.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 |
| 200.00 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 |
| 225.00 | 10-8 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 |
| 250.00 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-1 | 14-3 | 14-5 | 14-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 4-11 | 5-0 |
| 175.00 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 |
| 200.00 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 |
| 225.00 | 10-9 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 |
| 250.00 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 |
| 275.00 | 16-0 | 16-1 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 |
| 300.00 | 19-1 | 19-2 | 19-4 | 19-5 | 19-6 | 19-7 | 19-9 | 19-10 | 19-11 | 20-0 |
| 325.00 | 22-5 | 22-7 | 22-8 | 22-10 | 22-11 | 23-1 | 23-2 | 23-3 | 23-5 | 23-6 |
| 350.00 | 26-1 | 26-2 | 26-4 | 26-6 | 26-7 | 26-9 | 26-11 | 27-0 | 27-2 | 27-4 |
| 375.00 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 | 31-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-9 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 |
| 175.00 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 |
| 200.00 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 |
| 225.00 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-3 |
| 250.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-11 |
| 275.00 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 |
| 300.00 | 19-2 | 19-3 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-11 | 20-0 | 20-0 |
| 325.00 | 22-6 | 22-8 | 22-9 | 22-11 | 23-0 | 23-1 | 23-3 | 23-4 | 23-6 | 23-6 |
| 350.00 | 26-2 | 26-3 | 26-5 | 26-7 | 26-8 | 26-10 | 27-0 | 27-1 | 27-3 | 27-4 |
| 375.00 | 30-0 | 30-2 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 | 31-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 |
| 225.00 | 10-10 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 |
| 250.00 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 |
| 275.00 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 |
| 300.00 | 19-4 | 19-5 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 |
| 325.00 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 |
| 350.00 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 |
| 375.00 | 30-3 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 |
| 400.00 | 34-6 | 34-7 | 34-8 | 34-10 | 34-11 | 35-0 | 35-1 | 35-3 | 35-4 | 35-5 |
| 425.00 | 39-0 | 39-1 | 39-3 | 39-4 | 39-6 | 39-7 | 39-8 | 39-10 | 39-11 | 40-1 |
| 450.00 | 43-9 | 43-11 | 44-1 | 44-2 | 44-4 | 44-5 | 44-7 | 44-8 | 44-10 | 44-11 |
| 475.00 | 48-10 | 49-0 | 49-2 | 49-3 | 49-5 | 49-7 | 49-9 | 49-10 | 50-0 | 50-2 |
| 500.00 | 54-2 | 54-4 | 54-6 | 54-8 | 54-10 | 55-0 | 55-2 | 55-4 | 55-6 | 55-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-10 |
| 225.00 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-2 |
| 250.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 |
| 275.00 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 |
| 300.00 | 19-4 | 19-5 | 19-6 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 | 19-10 |
| 325.00 | 22-9 | 22-10 | 22-11 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 |
| 350.00 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 |
| 375.00 | 30-4 | 30-5 | 30-6 | 30-7 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-1 |
| 400.00 | 34-7 | 34-8 | 34-9 | 34-11 | 35-0 | 35-1 | 35-2 | 35-4 | 35-5 | 35-5 |
| 425.00 | 39-1 | 39-2 | 39-4 | 39-5 | 39-7 | 39-8 | 39-9 | 39-11 | 40-0 | 40-1 |
| 450.00 | 43-10 | 44-0 | 44-2 | 44-3 | 44-5 | 44-6 | 44-8 | 44-9 | 44-11 | 45-0 |
| 475.00 | 48-11 | 49-1 | 49-3 | 49-5 | 49-6 | 49-8 | 49-10 | 50-0 | 50-1 | 50-2 |
| 500.00 | 54-4 | 54-6 | 54-8 | 54-10 | 55-0 | 55-2 | 55-4 | 55-6 | 55-7 | 55-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 |
| 275.00 | 16-5 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 |
| 300.00 | 19-7 | 19-7 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-11 |
| 325.00 | 23-0 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-5 |
| 350.00 | 26-9 | 26-9 | 26-10 | 26-10 | 26-11 | 27-0 | 27-0 | 27-1 | 27-1 | 27-2 |
| 375.00 | 30-8 | 30-9 | 30-10 | 30-10 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 | 31-3 |
| 400.00 | 35-0 | 35-0 | 35-1 | 35-2 | 35-3 | 35-4 | 35-4 | 35-5 | 35-6 | 35-7 |
| 425.00 | 39-6 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-1 | 40-2 |
| 450.00 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-1 |
| 475.00 | 49-6 | 49-7 | 49-8 | 49-10 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 |
| 500.00 | 54-11 | 55-1 | 55-2 | 55-3 | 55-4 | 55-6 | 55-7 | 55-8 | 55-9 | 55-11 |
| 525.00 | 60-8 | 60-10 | 60-11 | 61-0 | 61-2 | 61-3 | 61-4 | 61-6 | 61-7 | 61-8 |
| 550.00 | 66-9 | 66-10 | 67-0 | 67-1 | 67-3 | 67-4 | 67-6 | 67-7 | 67-9 | 67-10 |
| 575.00 | 73-0 | 73-2 | 73-4 | 73-5 | 73-7 | 73-9 | 73-10 | 74-0 | 74-2 | 74-3 |
| 600.00 | 79-8 | 79-10 | 80-0 | 80-2 | 80-3 | 80-5 | 80-7 | 80-9 | 80-11 | 81-0 |
| 625.00 | 86-7 | 86-9 | 86-11 | 87-1 | 87-3 | 87-5 | 87-7 | 87-9 | 87-11 | 88-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 |
| 275.00 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 |
| 300.00 | 19-7 | 19-8 | 19-8 | 19-9 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 |
| 325.00 | 23-0 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 | 23-4 | 23-4 | 23-4 | 23-5 |
| 350.00 | 26-9 | 26-10 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 |
| 375.00 | 30-9 | 30-10 | 30-10 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-2 | 31-3 |
| 400.00 | 35-0 | 35-1 | 35-2 | 35-3 | 35-3 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 |
| 425.00 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 |
| 450.00 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 |
| 475.00 | 49-7 | 49-8 | 49-9 | 49-10 | 49-11 | 50-1 | 50-2 | 50-3 | 50-4 | 50-4 |
| 500.00 | 55-0 | 55-1 | 55-3 | 55-4 | 55-5 | 55-6 | 55-8 | 55-9 | 55-10 | 55-11 |
| 525.00 | 60-9 | 60-10 | 61-0 | 61-1 | 61-3 | 61-4 | 61-5 | 61-7 | 61-8 | 61-9 |
| 550.00 | 66-9 | 66-11 | 67-1 | 67-2 | 67-4 | 67-5 | 67-7 | 67-8 | 67-10 | 67-10 |
| 575.00 | 73-2 | 73-3 | 73-5 | 73-7 | 73-8 | 73-10 | 74-0 | 74-1 | 74-3 | 74-4 |
| 600.00 | 79-9 | 79-11 | 80-1 | 80-3 | 80-5 | 80-6 | 80-8 | 80-10 | 81-0 | 81-1 |
| 625.00 | 86-9 | 86-11 | 87-1 | 87-3 | 87-5 | 87-7 | 87-9 | 87-11 | 88-1 | 88-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS



TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 1.97 | 1000 | 1.97 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 1.58 | 896 | 1.58 | 896 |
| 30 | 0 | 0 | 0 | 1.134 | 1.71 | 831 | 1.71 | 832 |
| 40 | 0 | 0 | 0 | 1.134 | 1.83 | 777 | 1.82 | 779 |
| 50 | 0 | 0 | 0 | 1.134 | 1.94 | 732 | 1.93 | 735 |
| 60 | 0 | 0 | 0 | 1.134 | 2.04 | 694 | 2.04 | 697 |
| 70 | 0 | 0 | 0 | 1.134 | 2.15 | 662 | 2.14 | 664 |
| 80 | 0 | 0 | 0 | 1.134 | 2.24 | 633 | 2.23 | 636 |
| 90 | 0 | 0 | 0 | 1.134 | 2.34 | 608 | 2.33 | 610 |
| 100 | 0 | 0 | 0 | 1.134 | 2.43 | 585 | 2.42 | 588 |
| 110 | 0 | 0 | 0 | 1.134 | 2.5 | 570 | 2.5 | 570 |
| 120 | 0 | 0 | 0 | 1.134 | 2.54 | 559 | 2.54 | 559 |
| 130 | 0 | 0 | 0 | 1.134 | 2.59 | 549 | 2.59 | 549 |
| 167 | 0 | 0 | 0 | 1.134 | 2.76 | 515 | 2.76 | 515 |
| 212 | 0 | 0 | 0 | 1.134 | 2.96 | 481 | 2.96 | 481 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 7.92 | 1000 | 7.92 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 7.54 | 756 | 7.54 | 756 |
| 30 | 0 | 0 | 0 | 1.134 | 7.66 | 745 | 7.65 | 745 |
| 40 | 0 | 0 | 0 | 1.134 | 7.77 | 734 | 7.77 | 735 |
| 50 | 0 | 0 | 0 | 1.134 | 7.88 | 724 | 7.88 | 724 |
| 60 | 0 | 0 | 0 | 1.134 | 7.99 | 714 | 7.99 | 714 |
| 70 | 0 | 0 | 0 | 1.134 | 8.1 | 704 | 8.09 | 705 |
| 80 | 0 | 0 | 0 | 1.134 | 8.21 | 695 | 8.2 | 696 |
| 90 | 0 | 0 | 0 | 1.134 | 8.32 | 686 | 8.31 | 687 |
| 100 | 0 | 0 | 0 | 1.134 | 8.42 | 678 | 8.41 | 679 |
| 110 | 0 | 0 | 0 | 1.134 | 8.53 | 670 | 8.51 | 671 |
| 120 | 0 | 0 | 0 | 1.134 | 8.61 | 663 | 8.61 | 663 |
| 130 | 0 | 0 | 0 | 1.134 | 8.67 | 659 | 8.67 | 659 |
| 167 | 0 | 0 | 0 | 1.134 | 8.89 | 643 | 8.89 | 643 |
| 212 | 0 | 0 | 0 | 1.134 | 9.15 | 625 | 9.15 | 625 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 17.96 | 1000 | 17.96 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 17.58 | 735 | 17.58 | 736 |
| 30 | 0 | 0 | 0 | 1.134 | 17.7 | 731 | 17.69 | 731 |
| 40 | 0 | 0 | 0 | 1.134 | 17.81 | 726 | 17.8 | 727 |
| 50 | 0 | 0 | 0 | 1.134 | 17.92 | 722 | 17.92 | 722 |
| 60 | 0 | 0 | 0 | 1.134 | 18.03 | 718 | 18.03 | 718 |
| 70 | 0 | 0 | 0 | 1.134 | 18.14 | 713 | 18.14 | 714 |
| 80 | 0 | 0 | 0 | 1.134 | 18.25 | 709 | 18.25 | 710 |
| 90 | 0 | 0 | 0 | 1.134 | 18.36 | 705 | 18.35 | 706 |
| 100 | 0 | 0 | 0 | 1.134 | 18.47 | 701 | 18.46 | 702 |
| 110 | 0 | 0 | 0 | 1.134 | 18.58 | 697 | 18.57 | 698 |
| 120 | 0 | 0 | 0 | 1.134 | 18.68 | 694 | 18.68 | 694 |
| 130 | 0 | 0 | 0 | 1.134 | 18.75 | 691 | 18.75 | 691 |
| 167 | 0 | 0 | 0 | 1.134 | 18.99 | 683 | 18.99 | 683 |
| 212 | 0 | 0 | 0 | 1.134 | 19.27 | 673 | 19.27 | 673 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 32.29 | 1000 | 32.29 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 31.92 | 729 | 31.92 | 729 |
| 30 | 0 | 0 | 0 | 1.134 | 32.03 | 726 | 32.03 | 726 |
| 40 | 0 | 0 | 0 | 1.134 | 32.15 | 724 | 32.14 | 724 |
| 50 | 0 | 0 | 0 | 1.134 | 32.26 | 721 | 32.25 | 722 |
| 60 | 0 | 0 | 0 | 1.134 | 32.37 | 719 | 32.36 | 719 |
| 70 | 0 | 0 | 0 | 1.134 | 32.48 | 717 | 32.47 | 717 |
| 80 | 0 | 0 | 0 | 1.134 | 32.59 | 714 | 32.58 | 715 |
| 90 | 0 | 0 | 0 | 1.134 | 32.7 | 712 | 32.69 | 712 |
| 100 | 0 | 0 | 0 | 1.134 | 32.81 | 710 | 32.8 | 710 |
| 110 | 0 | 0 | 0 | 1.134 | 32.92 | 708 | 32.91 | 708 |
| 120 | 0 | 0 | 0 | 1.134 | 33.02 | 706 | 33.02 | 706 |
| 130 | 0 | 0 | 0 | 1.134 | 33.1 | 704 | 33.1 | 704 |
| 167 | 0 | 0 | 0 | 1.134 | 33.35 | 699 | 33.35 | 699 |
| 212 | 0 | 0 | 0 | 1.134 | 33.64 | 693 | 33.64 | 693 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 51.24 | 1000 | 51.24 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 50.88 | 725 | 50.87 | 726 |
| 30 | 0 | 0 | 0 | 1.134 | 50.99 | 724 | 50.98 | 724 |
| 40 | 0 | 0 | 0 | 1.134 | 51.1 | 723 | 51.09 | 723 |
| 50 | 0 | 0 | 0 | 1.134 | 51.21 | 721 | 51.2 | 721 |
| 60 | 0 | 0 | 0 | 1.134 | 51.32 | 720 | 51.31 | 720 |
| 70 | 0 | 0 | 0 | 1.134 | 51.43 | 718 | 51.43 | 718 |
| 80 | 0 | 0 | 0 | 1.134 | 51.55 | 717 | 51.54 | 717 |
| 90 | 0 | 0 | 0 | 1.134 | 51.66 | 715 | 51.65 | 716 |
| 100 | 0 | 0 | 0 | 1.134 | 51.77 | 714 | 51.76 | 714 |
| 110 | 0 | 0 | 0 | 1.134 | 51.88 | 713 | 51.86 | 713 |
| 120 | 0 | 0 | 0 | 1.134 | 51.97 | 711 | 51.97 | 711 |
| 130 | 0 | 0 | 0 | 1.134 | 52.06 | 710 | 52.06 | 710 |
| 167 | 0 | 0 | 0 | 1.134 | 52.31 | 707 | 52.31 | 707 |
| 212 | 0 | 0 | 0 | 1.134 | 52.61 | 704 | 52.61 | 704 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 100.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 125.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 |
| 150.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 |
| 175.00 | 4-10 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 | 7-5 | 7-8 |
| 200.00 | 6-4 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 | 8-11 | 9-4 | 9-8 | 10-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 100.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 125.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 3-11 |
| 150.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-7 |
| 175.00 | 4-10 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-5 | 7-8 |
| 200.00 | 6-4 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-9 | 10-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 |
| 125.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 |
| 150.00 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 |
| 175.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 200.00 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 |
| 225.00 | 9-7 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 |
| 250.00 | 11-9 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 |
| 125.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 |
| 150.00 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 |
| 175.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 200.00 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 |
| 225.00 | 9-7 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-10 |
| 250.00 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-7 |
| 175.00 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 |
| 200.00 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 |
| 225.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 |
| 250.00 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 |
| 275.00 | 14-9 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 |
| 300.00 | 17-7 | 17-8 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-6 | 18-7 |
| 325.00 | 20-8 | 20-9 | 20-11 | 21-1 | 21-2 | 21-4 | 21-5 | 21-7 | 21-8 | 21-10 |
| 350.00 | 24-0 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-0 | 25-2 | 25-4 |
| 375.00 | 27-6 | 27-9 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 |
| 175.00 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 |
| 200.00 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 |
| 225.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 |
| 250.00 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 |
| 275.00 | 14-9 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 |
| 300.00 | 17-7 | 17-8 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-6 | 18-7 |
| 325.00 | 20-8 | 20-9 | 20-11 | 21-1 | 21-2 | 21-4 | 21-5 | 21-7 | 21-8 | 21-10 |
| 350.00 | 24-0 | 24-2 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-0 | 25-2 | 25-4 |
| 375.00 | 27-7 | 27-9 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 |
| 225.00 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 |
| 250.00 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 |
| 275.00 | 15-0 | 15-1 | 15-1 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 |
| 300.00 | 17-11 | 17-11 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 | 18-4 | 18-5 | 18-5 |
| 325.00 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 |
| 350.00 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 |
| 375.00 | 28-0 | 28-1 | 28-3 | 28-4 | 28-5 | 28-6 | 28-7 | 28-8 | 28-10 | 28-11 |
| 400.00 | 31-11 | 32-0 | 32-2 | 32-3 | 32-4 | 32-6 | 32-7 | 32-8 | 32-10 | 32-11 |
| 425.00 | 36-1 | 36-2 | 36-4 | 36-5 | 36-7 | 36-8 | 36-10 | 36-11 | 37-1 | 37-2 |
| 450.00 | 40-6 | 40-8 | 40-9 | 40-11 | 41-1 | 41-2 | 41-4 | 41-6 | 41-7 | 41-9 |
| 475.00 | 45-2 | 45-4 | 45-6 | 45-8 | 45-10 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 |
| 500.00 | 50-1 | 50-3 | 50-6 | 50-8 | 50-10 | 51-0 | 51-2 | 51-4 | 51-6 | 51-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 |
| 225.00 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 |
| 250.00 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 |
| 275.00 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 |
| 300.00 | 17-11 | 17-11 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 | 18-4 | 18-5 | 18-5 |
| 325.00 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-5 | 21-6 | 21-7 | 21-8 |
| 350.00 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 |
| 375.00 | 28-0 | 28-2 | 28-3 | 28-4 | 28-5 | 28-6 | 28-7 | 28-9 | 28-10 | 28-11 |
| 400.00 | 31-11 | 32-0 | 32-2 | 32-3 | 32-4 | 32-6 | 32-7 | 32-8 | 32-10 | 32-11 |
| 425.00 | 36-1 | 36-2 | 36-4 | 36-5 | 36-7 | 36-9 | 36-10 | 37-0 | 37-1 | 37-3 |
| 450.00 | 40-6 | 40-8 | 40-9 | 40-11 | 41-1 | 41-2 | 41-4 | 41-6 | 41-8 | 41-9 |
| 475.00 | 45-2 | 45-4 | 45-6 | 45-8 | 45-10 | 46-0 | 46-1 | 46-3 | 46-5 | 46-7 |
| 500.00 | 50-1 | 50-3 | 50-6 | 50-8 | 50-10 | 51-0 | 51-2 | 51-4 | 51-6 | 51-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.129

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 |
| 275.00 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 | 15-6 | 15-6 | 15-6 |
| 300.00 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-5 | 18-6 | 18-6 |
| 325.00 | 21-4 | 21-4 | 21-5 | 21-6 | 21-6 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 |
| 350.00 | 24-9 | 24-10 | 24-10 | 24-11 | 25-0 | 25-0 | 25-1 | 25-2 | 25-2 | 25-3 |
| 375.00 | 28-5 | 28-6 | 28-7 | 28-8 | 28-8 | 28-9 | 28-10 | 28-11 | 28-11 | 29-0 |
| 400.00 | 32-5 | 32-6 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-0 |
| 425.00 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 |
| 450.00 | 41-1 | 41-2 | 41-3 | 41-4 | 41-5 | 41-7 | 41-8 | 41-9 | 41-10 | 41-11 |
| 475.00 | 45-10 | 45-11 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-7 | 46-8 | 46-9 |
| 500.00 | 50-10 | 51-0 | 51-1 | 51-2 | 51-4 | 51-5 | 51-6 | 51-8 | 51-9 | 51-10 |
| 525.00 | 56-2 | 56-3 | 56-5 | 56-6 | 56-8 | 56-9 | 56-11 | 57-0 | 57-2 | 57-3 |
| 550.00 | 61-9 | 61-10 | 62-0 | 62-2 | 62-3 | 62-5 | 62-6 | 62-8 | 62-10 | 62-11 |
| 575.00 | 67-7 | 67-9 | 67-10 | 68-0 | 68-2 | 68-4 | 68-6 | 68-7 | 68-9 | 68-11 |
| 600.00 | 73-8 | 73-10 | 74-0 | 74-2 | 74-4 | 74-6 | 74-8 | 74-10 | 75-0 | 75-2 |
| 625.00 | 80-1 | 80-3 | 80-5 | 80-7 | 80-10 | 81-0 | 81-2 | 81-4 | 81-6 | 81-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 |
| 275.00 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 | 15-6 | 15-6 | 15-6 |
| 300.00 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-5 | 18-6 | 18-6 |
| 325.00 | 21-4 | 21-5 | 21-5 | 21-6 | 21-6 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 |
| 350.00 | 24-9 | 24-10 | 24-10 | 24-11 | 25-0 | 25-0 | 25-1 | 25-2 | 25-2 | 25-3 |
| 375.00 | 28-5 | 28-6 | 28-7 | 28-8 | 28-8 | 28-9 | 28-10 | 28-11 | 28-11 | 29-0 |
| 400.00 | 32-5 | 32-6 | 32-7 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-0 |
| 425.00 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 |
| 450.00 | 41-1 | 41-2 | 41-3 | 41-4 | 41-6 | 41-7 | 41-8 | 41-9 | 41-10 | 41-11 |
| 475.00 | 45-10 | 45-11 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-7 | 46-8 | 46-9 |
| 500.00 | 50-11 | 51-0 | 51-1 | 51-3 | 51-4 | 51-5 | 51-7 | 51-8 | 51-9 | 51-11 |
| 525.00 | 56-2 | 56-3 | 56-5 | 56-6 | 56-8 | 56-9 | 56-11 | 57-0 | 57-2 | 57-3 |
| 550.00 | 61-9 | 61-10 | 62-0 | 62-2 | 62-3 | 62-5 | 62-7 | 62-8 | 62-10 | 62-11 |
| 575.00 | 67-7 | 67-9 | 67-10 | 68-0 | 68-2 | 68-4 | 68-6 | 68-7 | 68-9 | 68-11 |
| 600.00 | 73-8 | 73-10 | 74-0 | 74-2 | 74-4 | 74-6 | 74-8 | 74-10 | 75-0 | 75-2 |
| 625.00 | 80-1 | 80-3 | 80-5 | 80-8 | 80-10 | 81-0 | 81-2 | 81-4 | 81-6 | 81-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 1.34 | 1473 | 1.31 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 0.79 | 1805 | 0.77 | 1830 |
| 30 | 0 | 0 | 0 | 1.134 | 0.95 | 1486 | 0.93 | 1527 |
| 40 | 0 | 0 | 0 | 1.134 | 1.12 | 1268 | 1.08 | 1308 |
| 50 | 0 | 0 | 0 | 1.134 | 1.27 | 1114 | 1.23 | 1150 |
| 60 | 0 | 0 | 0 | 1.134 | 1.42 | 1001 | 1.38 | 1031 |
| 70 | 0 | 0 | 0 | 1.134 | 1.55 | 914 | 1.51 | 940 |
| 80 | 0 | 0 | 0 | 1.134 | 1.68 | 845 | 1.64 | 867 |
| 90 | 0 | 0 | 0 | 1.134 | 1.8 | 789 | 1.76 | 808 |
| 100 | 0 | 0 | 0 | 1.134 | 1.91 | 743 | 1.87 | 760 |
| 110 | 0 | 0 | 0 | 1.134 | 2.02 | 703 | 1.98 | 718 |
| 120 | 0 | 0 | 0 | 1.134 | 2.08 | 681 | 2.08 | 683 |
| 130 | 0 | 0 | 0 | 1.134 | 2.14 | 664 | 2.14 | 664 |
| 167 | 0 | 0 | 0 | 1.134 | 2.33 | 609 | 2.33 | 610 |
| 212 | 0 | 0 | 0 | 1.134 | 2.55 | 557 | 2.55 | 557 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 5.3 | 1488 | 5.26 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 4.72 | 1204 | 4.66 | 1218 |
| 30 | 0 | 0 | 0 | 1.134 | 4.9 | 1161 | 4.84 | 1175 |
| 40 | 0 | 0 | 0 | 1.134 | 5.07 | 1122 | 5.01 | 1135 |
| 50 | 0 | 0 | 0 | 1.134 | 5.23 | 1087 | 5.17 | 1099 |
| 60 | 0 | 0 | 0 | 1.134 | 5.39 | 1054 | 5.33 | 1066 |
| 70 | 0 | 0 | 0 | 1.134 | 5.55 | 1025 | 5.49 | 1036 |
| 80 | 0 | 0 | 0 | 1.134 | 5.7 | 998 | 5.64 | 1009 |
| 90 | 0 | 0 | 0 | 1.134 | 5.85 | 972 | 5.79 | 983 |
| 100 | 0 | 0 | 0 | 1.134 | 6 | 949 | 5.93 | 959 |
| 110 | 0 | 0 | 0 | 1.134 | 6.14 | 927 | 6.07 | 937 |
| 120 | 0 | 0 | 0 | 1.134 | 6.28 | 907 | 6.21 | 916 |
| 130 | 0 | 0 | 0 | 1.134 | 6.42 | 887 | 6.35 | 897 |
| 167 | 0 | 0 | 0 | 1.134 | 6.72 | 848 | 6.72 | 848 |
| 212 | 0 | 0 | 0 | 1.134 | 7.04 | 809 | 7.04 | 809 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 11.92 | 1494 | 11.87 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 11.34 | 1131 | 11.28 | 1137 |
| 30 | 0 | 0 | 0 | 1.134 | 11.52 | 1114 | 11.45 | 1121 |
| 40 | 0 | 0 | 0 | 1.134 | 11.68 | 1098 | 11.62 | 1105 |
| 50 | 0 | 0 | 0 | 1.134 | 11.85 | 1083 | 11.79 | 1089 |
| 60 | 0 | 0 | 0 | 1.134 | 12.02 | 1069 | 11.95 | 1074 |
| 70 | 0 | 0 | 0 | 1.134 | 12.18 | 1054 | 12.11 | 1060 |
| 80 | 0 | 0 | 0 | 1.134 | 12.34 | 1041 | 12.27 | 1047 |
| 90 | 0 | 0 | 0 | 1.134 | 12.5 | 1028 | 12.43 | 1034 |
| 100 | 0 | 0 | 0 | 1.134 | 12.65 | 1015 | 12.58 | 1021 |
| 110 | 0 | 0 | 0 | 1.134 | 12.81 | 1003 | 12.74 | 1009 |
| 120 | 0 | 0 | 0 | 1.134 | 12.96 | 992 | 12.89 | 997 |
| 130 | 0 | 0 | 0 | 1.134 | 13.11 | 980 | 13.04 | 986 |
| 167 | 0 | 0 | 0 | 1.134 | 13.52 | 951 | 13.52 | 951 |
| 212 | 0 | 0 | 0 | 1.134 | 13.9 | 926 | 13.9 | 926 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 21.27 | 1496 | 21.22 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 20.69 | 1108 | 20.62 | 1111 |
| 30 | 0 | 0 | 0 | 1.134 | 20.86 | 1099 | 20.79 | 1103 |
| 40 | 0 | 0 | 0 | 1.134 | 21.03 | 1091 | 20.96 | 1094 |
| 50 | 0 | 0 | 0 | 1.134 | 21.19 | 1082 | 21.13 | 1086 |
| 60 | 0 | 0 | 0 | 1.134 | 21.36 | 1074 | 21.29 | 1077 |
| 70 | 0 | 0 | 0 | 1.134 | 21.52 | 1066 | 21.45 | 1069 |
| 80 | 0 | 0 | 0 | 1.134 | 21.69 | 1058 | 21.62 | 1061 |
| 90 | 0 | 0 | 0 | 1.134 | 21.85 | 1050 | 21.78 | 1054 |
| 100 | 0 | 0 | 0 | 1.134 | 22.01 | 1043 | 21.94 | 1046 |
| 110 | 0 | 0 | 0 | 1.134 | 22.17 | 1035 | 22.1 | 1039 |
| 120 | 0 | 0 | 0 | 1.134 | 22.33 | 1028 | 22.26 | 1032 |
| 130 | 0 | 0 | 0 | 1.134 | 22.49 | 1021 | 22.41 | 1025 |
| 167 | 0 | 0 | 0 | 1.134 | 22.96 | 1001 | 22.96 | 1001 |
| 212 | 0 | 0 | 0 | 1.134 | 23.36 | 984 | 23.36 | 984 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 33.42 | 1498 | 33.37 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 32.84 | 1098 | 32.77 | 1100 |
| 30 | 0 | 0 | 0 | 1.134 | 33.01 | 1092 | 32.94 | 1094 |
| 40 | 0 | 0 | 0 | 1.134 | 33.18 | 1087 | 33.11 | 1089 |
| 50 | 0 | 0 | 0 | 1.134 | 33.34 | 1082 | 33.28 | 1084 |
| 60 | 0 | 0 | 0 | 1.134 | 33.51 | 1077 | 33.44 | 1079 |
| 70 | 0 | 0 | 0 | 1.134 | 33.68 | 1071 | 33.61 | 1074 |
| 80 | 0 | 0 | 0 | 1.134 | 33.84 | 1066 | 33.77 | 1069 |
| 90 | 0 | 0 | 0 | 1.134 | 34.01 | 1061 | 33.93 | 1064 |
| 100 | 0 | 0 | 0 | 1.134 | 34.17 | 1057 | 34.09 | 1059 |
| 110 | 0 | 0 | 0 | 1.134 | 34.33 | 1052 | 34.26 | 1054 |
| 120 | 0 | 0 | 0 | 1.134 | 34.49 | 1047 | 34.42 | 1049 |
| 130 | 0 | 0 | 0 | 1.134 | 34.66 | 1042 | 34.58 | 1045 |
| 167 | 0 | 0 | 0 | 1.134 | 35.15 | 1028 | 35.15 | 1028 |
| 212 | 0 | 0 | 0 | 1.134 | 35.58 | 1016 | 35.58 | 1016 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 |
| 125.00 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 |
| 150.00 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 |
| 175.00 | 2-4 | 2-10 | 3-4 | 3-9 | 4-3 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 |
| 200.00 | 3-1 | 3-9 | 4-4 | 4-11 | 5-6 | 6-1 | 6-7 | 7-0 | 7-6 | 7-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 |
| 150.00 | 1-9 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 |
| 175.00 | 2-5 | 2-11 | 3-5 | 3-11 | 4-4 | 4-9 | 5-2 | 5-6 | 5-10 | 6-2 |
| 200.00 | 3-2 | 3-10 | 4-6 | 5-1 | 5-8 | 6-3 | 6-9 | 7-2 | 7-8 | 8-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 125.00 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 |
| 150.00 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 175.00 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 |
| 200.00 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 |
| 225.00 | 5-11 | 6-1 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 |
| 250.00 | 7-3 | 7-7 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 | 9-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 |
| 125.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 |
| 150.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 175.00 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 |
| 200.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-2 |
| 225.00 | 6-0 | 6-2 | 6-5 | 6-7 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 |
| 250.00 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 |
| 175.00 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 |
| 200.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 |
| 225.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 |
| 250.00 | 7-10 | 7-11 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 |
| 275.00 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 |
| 300.00 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 |
| 325.00 | 13-3 | 13-5 | 13-8 | 13-10 | 14-0 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 |
| 350.00 | 15-4 | 15-7 | 15-10 | 16-1 | 16-3 | 16-6 | 16-9 | 16-11 | 17-2 | 17-4 |
| 375.00 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 |
| 175.00 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 |
| 200.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 |
| 225.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 |
| 250.00 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-11 |
| 275.00 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-9 |
| 300.00 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 |
| 325.00 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 |
| 350.00 | 15-5 | 15-8 | 15-11 | 16-2 | 16-4 | 16-7 | 16-10 | 17-0 | 17-3 | 17-5 |
| 375.00 | 17-9 | 18-0 | 18-3 | 18-6 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 225.00 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 |
| 250.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 |
| 275.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 |
| 300.00 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 |
| 325.00 | 13-7 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-6 | 14-7 |
| 350.00 | 15-9 | 15-11 | 16-0 | 16-2 | 16-3 | 16-5 | 16-6 | 16-8 | 16-9 | 16-11 |
| 375.00 | 18-1 | 18-3 | 18-5 | 18-7 | 18-8 | 18-10 | 19-0 | 19-2 | 19-3 | 19-5 |
| 400.00 | 20-7 | 20-10 | 21-0 | 21-2 | 21-3 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 |
| 425.00 | 23-4 | 23-6 | 23-8 | 23-10 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 25-0 |
| 450.00 | 26-2 | 26-4 | 26-7 | 26-9 | 27-0 | 27-2 | 27-5 | 27-7 | 27-10 | 28-0 |
| 475.00 | 29-1 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 | 30-6 | 30-9 | 31-0 | 31-3 |
| 500.00 | 32-3 | 32-7 | 32-10 | 33-1 | 33-4 | 33-7 | 33-10 | 34-1 | 34-4 | 34-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 225.00 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 |
| 250.00 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-8 |
| 275.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-5 |
| 300.00 | 11-7 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 |
| 325.00 | 13-8 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 | 14-4 | 14-5 | 14-6 | 14-7 |
| 350.00 | 15-10 | 15-11 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 17-0 |
| 375.00 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-11 | 19-1 | 19-2 | 19-4 | 19-6 |
| 400.00 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 |
| 425.00 | 23-4 | 23-7 | 23-9 | 23-11 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 | 25-1 |
| 450.00 | 26-2 | 26-5 | 26-8 | 26-10 | 27-1 | 27-3 | 27-6 | 27-8 | 27-11 | 28-1 |
| 475.00 | 29-3 | 29-5 | 29-8 | 29-11 | 30-2 | 30-5 | 30-8 | 30-10 | 31-1 | 31-4 |
| 500.00 | 32-5 | 32-8 | 32-11 | 33-2 | 33-5 | 33-8 | 34-0 | 34-3 | 34-6 | 34-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 |
| 275.00 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 |
| 300.00 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 |
| 325.00 | 13-10 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 |
| 350.00 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 |
| 375.00 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-2 | 19-3 |
| 400.00 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 | 21-6 | 21-7 | 21-8 | 21-9 | 21-11 |
| 425.00 | 23-8 | 23-9 | 23-11 | 24-0 | 24-1 | 24-3 | 24-4 | 24-6 | 24-7 | 24-8 |
| 450.00 | 26-6 | 26-8 | 26-9 | 26-11 | 27-1 | 27-2 | 27-4 | 27-5 | 27-7 | 27-9 |
| 475.00 | 29-7 | 29-9 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-7 | 30-9 | 30-11 |
| 500.00 | 32-9 | 32-11 | 33-1 | 33-3 | 33-5 | 33-7 | 33-9 | 33-11 | 34-1 | 34-3 |
| 525.00 | 36-2 | 36-4 | 36-6 | 36-8 | 36-11 | 37-1 | 37-3 | 37-5 | 37-7 | 37-9 |
| 550.00 | 39-8 | 39-11 | 40-1 | 40-4 | 40-6 | 40-9 | 40-11 | 41-1 | 41-4 | 41-6 |
| 575.00 | 43-5 | 43-8 | 43-10 | 44-1 | 44-4 | 44-6 | 44-9 | 45-0 | 45-2 | 45-5 |
| 600.00 | 47-4 | 47-7 | 47-10 | 48-0 | 48-3 | 48-6 | 48-9 | 49-0 | 49-3 | 49-6 |
| 625.00 | 51-4 | 51-8 | 51-11 | 52-2 | 52-5 | 52-8 | 52-11 | 53-2 | 53-5 | 53-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 |
| 275.00 | 9-11 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 |
| 300.00 | 11-9 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 |
| 325.00 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-5 |
| 350.00 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 |
| 375.00 | 18-5 | 18-6 | 18-7 | 18-8 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 |
| 400.00 | 21-0 | 21-1 | 21-2 | 21-4 | 21-5 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 |
| 425.00 | 23-8 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-5 | 24-6 | 24-8 | 24-9 |
| 450.00 | 26-7 | 26-8 | 26-10 | 27-0 | 27-1 | 27-3 | 27-5 | 27-6 | 27-8 | 27-9 |
| 475.00 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 | 30-5 | 30-6 | 30-8 | 30-10 | 31-0 |
| 500.00 | 32-10 | 33-0 | 33-2 | 33-4 | 33-6 | 33-8 | 33-10 | 34-0 | 34-2 | 34-4 |
| 525.00 | 36-3 | 36-5 | 36-7 | 36-9 | 37-0 | 37-2 | 37-4 | 37-6 | 37-8 | 37-11 |
| 550.00 | 39-9 | 40-0 | 40-2 | 40-5 | 40-7 | 40-10 | 41-0 | 41-2 | 41-5 | 41-7 |
| 575.00 | 43-6 | 43-9 | 43-11 | 44-2 | 44-5 | 44-7 | 44-10 | 45-1 | 45-3 | 45-6 |
| 600.00 | 47-5 | 47-8 | 47-11 | 48-2 | 48-5 | 48-7 | 48-10 | 49-1 | 49-4 | 49-7 |
| 625.00 | 51-6 | 51-9 | 52-0 | 52-3 | 52-6 | 52-10 | 53-1 | 53-4 | 53-7 | 53-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 1.06 | 1856 | 0.98 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 0.5 | 2827 | 0.48 | 2971 |
| 30 | 0 | 0 | 0 | 1.134 | 0.64 | 2216 | 0.58 | 2424 |
| 40 | 0 | 0 | 0 | 1.134 | 0.8 | 1768 | 0.72 | 1973 |
| 50 | 0 | 0 | 0 | 1.134 | 0.97 | 1461 | 0.87 | 1631 |
| 60 | 0 | 0 | 0 | 1.134 | 1.13 | 1251 | 1.03 | 1383 |
| 70 | 0 | 0 | 0 | 1.134 | 1.29 | 1102 | 1.18 | 1204 |
| 80 | 0 | 0 | 0 | 1.134 | 1.43 | 991 | 1.32 | 1072 |
| 90 | 0 | 0 | 0 | 1.134 | 1.57 | 907 | 1.46 | 972 |
| 100 | 0 | 0 | 0 | 1.134 | 1.69 | 839 | 1.59 | 893 |
| 110 | 0 | 0 | 0 | 1.134 | 1.81 | 784 | 1.71 | 829 |
| 120 | 0 | 0 | 0 | 1.134 | 1.88 | 754 | 1.83 | 777 |
| 130 | 0 | 0 | 0 | 1.134 | 1.94 | 732 | 1.93 | 735 |
| 167 | 0 | 0 | 0 | 1.134 | 2.14 | 663 | 2.13 | 666 |
| 212 | 0 | 0 | 0 | 1.134 | 2.38 | 598 | 2.36 | 601 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 4.08 | 1931 | 3.94 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 3.31 | 1715 | 3.14 | 1809 |
| 30 | 0 | 0 | 0 | 1.134 | 3.54 | 1605 | 3.36 | 1688 |
| 40 | 0 | 0 | 0 | 1.134 | 3.76 | 1512 | 3.58 | 1586 |
| 50 | 0 | 0 | 0 | 1.134 | 3.96 | 1432 | 3.79 | 1498 |
| 60 | 0 | 0 | 0 | 1.134 | 4.17 | 1363 | 3.99 | 1422 |
| 70 | 0 | 0 | 0 | 1.134 | 4.36 | 1303 | 4.19 | 1356 |
| 80 | 0 | 0 | 0 | 1.134 | 4.55 | 1249 | 4.38 | 1298 |
| 90 | 0 | 0 | 0 | 1.134 | 4.73 | 1202 | 4.56 | 1246 |
| 100 | 0 | 0 | 0 | 1.134 | 4.9 | 1159 | 4.74 | 1200 |
| 110 | 0 | 0 | 0 | 1.134 | 5.07 | 1120 | 4.91 | 1158 |
| 120 | 0 | 0 | 0 | 1.134 | 5.24 | 1085 | 5.08 | 1120 |
| 130 | 0 | 0 | 0 | 1.134 | 5.4 | 1053 | 5.24 | 1085 |
| 167 | 0 | 0 | 0 | 1.134 | 5.77 | 985 | 5.77 | 986 |
| 212 | 0 | 0 | 0 | 1.134 | 6.13 | 928 | 6.13 | 929 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 9.05 | 1964 | 8.88 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 8.26 | 1550 | 8.06 | 1588 |
| 30 | 0 | 0 | 0 | 1.134 | 8.48 | 1509 | 8.29 | 1545 |
| 40 | 0 | 0 | 0 | 1.134 | 8.71 | 1470 | 8.51 | 1504 |
| 50 | 0 | 0 | 0 | 1.134 | 8.92 | 1435 | 8.73 | 1467 |
| 60 | 0 | 0 | 0 | 1.134 | 9.14 | 1402 | 8.94 | 1432 |
| 70 | 0 | 0 | 0 | 1.134 | 9.34 | 1371 | 9.15 | 1400 |
| 80 | 0 | 0 | 0 | 1.134 | 9.55 | 1341 | 9.35 | 1369 |
| 90 | 0 | 0 | 0 | 1.134 | 9.75 | 1314 | 9.55 | 1341 |
| 100 | 0 | 0 | 0 | 1.134 | 9.95 | 1288 | 9.75 | 1314 |
| 110 | 0 | 0 | 0 | 1.134 | 10.14 | 1264 | 9.94 | 1289 |
| 120 | 0 | 0 | 0 | 1.134 | 10.33 | 1241 | 10.13 | 1265 |
| 130 | 0 | 0 | 0 | 1.134 | 10.52 | 1219 | 10.32 | 1242 |
| 167 | 0 | 0 | 0 | 1.134 | 11.09 | 1157 | 10.99 | 1167 |
| 212 | 0 | 0 | 0 | 1.134 | 11.53 | 1113 | 11.53 | 1113 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 16.01 | 1978 | 15.83 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 15.21 | 1500 | 15.01 | 1520 |
| 30 | 0 | 0 | 0 | 1.134 | 15.44 | 1478 | 15.23 | 1498 |
| 40 | 0 | 0 | 0 | 1.134 | 15.66 | 1457 | 15.45 | 1476 |
| 50 | 0 | 0 | 0 | 1.134 | 15.88 | 1437 | 15.67 | 1456 |
| 60 | 0 | 0 | 0 | 1.134 | 16.1 | 1418 | 15.89 | 1436 |
| 70 | 0 | 0 | 0 | 1.134 | 16.31 | 1399 | 16.11 | 1417 |
| 80 | 0 | 0 | 0 | 1.134 | 16.53 | 1382 | 16.32 | 1399 |
| 90 | 0 | 0 | 0 | 1.134 | 16.74 | 1365 | 16.53 | 1382 |
| 100 | 0 | 0 | 0 | 1.134 | 16.94 | 1348 | 16.73 | 1365 |
| 110 | 0 | 0 | 0 | 1.134 | 17.15 | 1332 | 16.94 | 1349 |
| 120 | 0 | 0 | 0 | 1.134 | 17.35 | 1317 | 17.14 | 1333 |
| 130 | 0 | 0 | 0 | 1.134 | 17.55 | 1302 | 17.34 | 1318 |
| 167 | 0 | 0 | 0 | 1.134 | 18.25 | 1253 | 18.06 | 1266 |
| 212 | 0 | 0 | 0 | 1.134 | 18.74 | 1221 | 18.74 | 1221 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 25.01 | 1986 | 24.83 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 24.21 | 1478 | 24 | 1490 |
| 30 | 0 | 0 | 0 | 1.134 | 24.44 | 1464 | 24.22 | 1477 |
| 40 | 0 | 0 | 0 | 1.134 | 24.66 | 1451 | 24.45 | 1463 |
| 50 | 0 | 0 | 0 | 1.134 | 24.88 | 1438 | 24.67 | 1451 |
| 60 | 0 | 0 | 0 | 1.134 | 25.1 | 1426 | 24.89 | 1438 |
| 70 | 0 | 0 | 0 | 1.134 | 25.32 | 1414 | 25.1 | 1426 |
| 80 | 0 | 0 | 0 | 1.134 | 25.53 | 1402 | 25.32 | 1414 |
| 90 | 0 | 0 | 0 | 1.134 | 25.75 | 1391 | 25.53 | 1402 |
| 100 | 0 | 0 | 0 | 1.134 | 25.96 | 1380 | 25.74 | 1391 |
| 110 | 0 | 0 | 0 | 1.134 | 26.17 | 1369 | 25.95 | 1380 |
| 120 | 0 | 0 | 0 | 1.134 | 26.38 | 1358 | 26.16 | 1369 |
| 130 | 0 | 0 | 0 | 1.134 | 26.59 | 1348 | 26.37 | 1359 |
| 167 | 0 | 0 | 0 | 1.134 | 27.35 | 1311 | 27.12 | 1322 |
| 212 | 0 | 0 | 0 | 1.134 | 27.9 | 1286 | 27.9 | 1286 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 |
| 125.00 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 |
| 150.00 | 1-1 | 1-4 | 1-7 | 1-11 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 |
| 175.00 | 1-6 | 1-9 | 2-2 | 2-8 | 3-2 | 3-7 | 4-1 | 4-6 | 4-10 | 5-3 |
| 200.00 | 1-11 | 2-4 | 2-10 | 3-6 | 4-1 | 4-9 | 5-4 | 5-10 | 6-4 | 6-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 100.00 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 |
| 125.00 | 0-9 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 |
| 150.00 | 1-2 | 1-5 | 1-10 | 2-2 | 2-7 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 |
| 175.00 | 1-6 | 2-0 | 2-5 | 3-0 | 3-6 | 3-11 | 4-5 | 4-10 | 5-2 | 5-7 |
| 200.00 | 2-0 | 2-7 | 3-2 | 3-11 | 4-6 | 5-2 | 5-9 | 6-3 | 6-9 | 7-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 |
| 150.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 |
| 200.00 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 |
| 225.00 | 4-0 | 4-3 | 4-6 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-3 |
| 250.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 | 7-5 | 7-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 150.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 |
| 175.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 |
| 200.00 | 3-4 | 3-6 | 3-9 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 |
| 225.00 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 |
| 250.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 |
| 175.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 200.00 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 225.00 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 |
| 250.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 |
| 275.00 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 |
| 300.00 | 8-1 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 |
| 325.00 | 9-5 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 |
| 350.00 | 11-0 | 11-3 | 11-7 | 11-11 | 12-2 | 12-5 | 12-9 | 13-0 | 13-3 | 13-7 |
| 375.00 | 12-7 | 12-11 | 13-4 | 13-8 | 14-0 | 14-4 | 14-7 | 14-11 | 15-3 | 15-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 |
| 175.00 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 |
| 200.00 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 225.00 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 |
| 250.00 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 |
| 275.00 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 |
| 300.00 | 8-3 | 8-6 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-2 |
| 325.00 | 9-8 | 9-11 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-11 |
| 350.00 | 11-3 | 11-7 | 11-10 | 12-2 | 12-5 | 12-9 | 13-0 | 13-3 | 13-7 | 13-10 |
| 375.00 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 |
| 225.00 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 |
| 250.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 275.00 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 |
| 300.00 | 8-5 | 8-7 | 8-8 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 |
| 325.00 | 9-11 | 10-1 | 10-2 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 |
| 350.00 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 |
| 375.00 | 13-2 | 13-5 | 13-7 | 13-9 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-11 |
| 400.00 | 15-0 | 15-3 | 15-5 | 15-8 | 15-11 | 16-1 | 16-4 | 16-6 | 16-9 | 16-11 |
| 425.00 | 16-11 | 17-2 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 |
| 450.00 | 19-0 | 19-3 | 19-7 | 19-10 | 20-1 | 20-5 | 20-8 | 20-11 | 21-2 | 21-5 |
| 475.00 | 21-2 | 21-6 | 21-10 | 22-1 | 22-5 | 22-9 | 23-0 | 23-4 | 23-7 | 23-11 |
| 500.00 | 23-6 | 23-10 | 24-2 | 24-6 | 24-10 | 25-2 | 25-6 | 25-10 | 26-2 | 26-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 |
| 225.00 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 |
| 250.00 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 275.00 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-1 |
| 300.00 | 8-7 | 8-8 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 |
| 325.00 | 10-0 | 10-2 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 | 11-4 |
| 350.00 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 |
| 375.00 | 13-4 | 13-7 | 13-9 | 13-11 | 14-2 | 14-4 | 14-6 | 14-8 | 14-11 | 15-1 |
| 400.00 | 15-3 | 15-5 | 15-8 | 15-11 | 16-1 | 16-4 | 16-6 | 16-9 | 16-11 | 17-2 |
| 425.00 | 17-2 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 | 19-4 |
| 450.00 | 19-3 | 19-7 | 19-10 | 20-1 | 20-5 | 20-8 | 20-11 | 21-2 | 21-5 | 21-9 |
| 475.00 | 21-6 | 21-9 | 22-1 | 22-5 | 22-9 | 23-0 | 23-4 | 23-7 | 23-11 | 24-2 |
| 500.00 | 23-10 | 24-2 | 24-6 | 24-10 | 25-2 | 25-6 | 25-10 | 26-2 | 26-6 | 26-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 |
| 275.00 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 |
| 300.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 |
| 325.00 | 10-1 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 |
| 350.00 | 11-9 | 11-10 | 12-0 | 12-1 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 | 12-8 |
| 375.00 | 13-6 | 13-7 | 13-9 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 |
| 400.00 | 15-4 | 15-6 | 15-8 | 15-9 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-7 |
| 425.00 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 |
| 450.00 | 19-5 | 19-7 | 19-9 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 |
| 475.00 | 21-8 | 21-10 | 22-1 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 | 23-3 | 23-5 |
| 500.00 | 24-0 | 24-3 | 24-5 | 24-8 | 24-11 | 25-1 | 25-4 | 25-6 | 25-9 | 25-11 |
| 525.00 | 26-6 | 26-9 | 27-0 | 27-2 | 27-5 | 27-8 | 27-11 | 28-2 | 28-5 | 28-7 |
| 550.00 | 29-1 | 29-4 | 29-7 | 29-10 | 30-2 | 30-5 | 30-8 | 30-11 | 31-2 | 31-5 |
| 575.00 | 31-9 | 32-1 | 32-4 | 32-8 | 32-11 | 33-3 | 33-6 | 33-10 | 34-1 | 34-4 |
| 600.00 | 34-7 | 34-11 | 35-3 | 35-7 | 35-11 | 36-2 | 36-6 | 36-10 | 37-2 | 37-5 |
| 625.00 | 37-7 | 37-11 | 38-3 | 38-7 | 38-11 | 39-4 | 39-8 | 40-0 | 40-4 | 40-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 |
| 275.00 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 |
| 300.00 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 |
| 325.00 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 |
| 350.00 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 | 12-8 | 12-10 |
| 375.00 | 13-7 | 13-9 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 |
| 400.00 | 15-6 | 15-7 | 15-9 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-7 | 16-9 |
| 425.00 | 17-6 | 17-8 | 17-10 | 18-0 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 |
| 450.00 | 19-7 | 19-9 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 |
| 475.00 | 21-10 | 22-1 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 | 23-3 | 23-5 | 23-7 |
| 500.00 | 24-3 | 24-5 | 24-8 | 24-11 | 25-1 | 25-4 | 25-6 | 25-9 | 26-0 | 26-2 |
| 525.00 | 26-8 | 26-11 | 27-2 | 27-5 | 27-8 | 27-11 | 28-2 | 28-5 | 28-8 | 28-10 |
| 550.00 | 29-4 | 29-7 | 29-10 | 30-2 | 30-5 | 30-8 | 30-11 | 31-2 | 31-5 | 31-8 |
| 575.00 | 32-1 | 32-4 | 32-8 | 32-11 | 33-3 | 33-6 | 33-10 | 34-1 | 34-4 | 34-8 |
| 600.00 | 34-11 | 35-3 | 35-7 | 35-11 | 36-2 | 36-6 | 36-10 | 37-2 | 37-5 | 37-9 |
| 625.00 | 37-11 | 38-3 | 38-7 | 38-11 | 39-4 | 39-8 | 40-0 | 40-4 | 40-8 | 41-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 0.9 | 2181 | 0.79 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 0.39 | 3613 | 0.37 | 3882 |
| 30 | 0 | 0 | 0 | 1.134 | 0.5 | 2859 | 0.44 | 3251 |
| 40 | 0 | 0 | 0 | 1.134 | 0.63 | 2241 | 0.53 | 2669 |
| 50 | 0 | 0 | 0 | 1.134 | 0.79 | 1786 | 0.65 | 2169 |
| 60 | 0 | 0 | 0 | 1.134 | 0.96 | 1473 | 0.8 | 1775 |
| 70 | 0 | 0 | 0 | 1.134 | 1.13 | 1259 | 0.95 | 1487 |
| 80 | 0 | 0 | 0 | 1.134 | 1.28 | 1108 | 1.11 | 1279 |
| 90 | 0 | 0 | 0 | 1.134 | 1.42 | 996 | 1.26 | 1128 |
| 100 | 0 | 0 | 0 | 1.134 | 1.56 | 910 | 1.4 | 1015 |
| 110 | 0 | 0 | 0 | 1.134 | 1.69 | 842 | 1.53 | 927 |
| 120 | 0 | 0 | 0 | 1.134 | 1.75 | 809 | 1.66 | 857 |
| 130 | 0 | 0 | 0 | 1.134 | 1.81 | 783 | 1.77 | 800 |
| 167 | 0 | 0 | 0 | 1.134 | 2.02 | 702 | 2 | 708 |
| 212 | 0 | 0 | 0 | 1.134 | 2.26 | 628 | 2.24 | 633 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 3.39 | 2324 | 3.15 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 2.48 | 2291 | 2.21 | 2572 |
| 30 | 0 | 0 | 0 | 1.134 | 2.74 | 2073 | 2.45 | 2315 |
| 40 | 0 | 0 | 0 | 1.134 | 2.99 | 1898 | 2.7 | 2105 |
| 50 | 0 | 0 | 0 | 1.134 | 3.23 | 1757 | 2.93 | 1934 |
| 60 | 0 | 0 | 0 | 1.134 | 3.46 | 1640 | 3.17 | 1792 |
| 70 | 0 | 0 | 0 | 1.134 | 3.68 | 1541 | 3.39 | 1673 |
| 80 | 0 | 0 | 0 | 1.134 | 3.9 | 1457 | 3.61 | 1573 |
| 90 | 0 | 0 | 0 | 1.134 | 4.1 | 1385 | 3.82 | 1487 |
| 100 | 0 | 0 | 0 | 1.134 | 4.3 | 1322 | 4.02 | 1413 |
| 110 | 0 | 0 | 0 | 1.134 | 4.49 | 1266 | 4.21 | 1348 |
| 120 | 0 | 0 | 0 | 1.134 | 4.67 | 1217 | 4.4 | 1290 |
| 130 | 0 | 0 | 0 | 1.134 | 4.85 | 1173 | 4.58 | 1239 |
| 167 | 0 | 0 | 0 | 1.134 | 5.26 | 1082 | 5.21 | 1091 |
| 212 | 0 | 0 | 0 | 1.134 | 5.64 | 1009 | 5.62 | 1011 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 7.4 | 2399 | 7.1 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 6.41 | 1994 | 6.05 | 2114 |
| 30 | 0 | 0 | 0 | 1.134 | 6.69 | 1912 | 6.32 | 2021 |
| 40 | 0 | 0 | 0 | 1.134 | 6.96 | 1838 | 6.6 | 1938 |
| 50 | 0 | 0 | 0 | 1.134 | 7.22 | 1772 | 6.86 | 1864 |
| 60 | 0 | 0 | 0 | 1.134 | 7.47 | 1712 | 7.12 | 1797 |
| 70 | 0 | 0 | 0 | 1.134 | 7.72 | 1657 | 7.37 | 1736 |
| 80 | 0 | 0 | 0 | 1.134 | 7.96 | 1608 | 7.61 | 1681 |
| 90 | 0 | 0 | 0 | 1.134 | 8.19 | 1562 | 7.85 | 1630 |
| 100 | 0 | 0 | 0 | 1.134 | 8.42 | 1520 | 8.08 | 1584 |
| 110 | 0 | 0 | 0 | 1.134 | 8.65 | 1481 | 8.31 | 1541 |
| 120 | 0 | 0 | 0 | 1.134 | 8.86 | 1444 | 8.53 | 1501 |
| 130 | 0 | 0 | 0 | 1.134 | 9.08 | 1410 | 8.75 | 1464 |
| 167 | 0 | 0 | 0 | 1.134 | 9.77 | 1311 | 9.51 | 1347 |
| 212 | 0 | 0 | 0 | 1.134 | 10.25 | 1250 | 10.24 | 1251 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 12.97 | 2437 | 12.64 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 11.96 | 1904 | 11.57 | 1967 |
| 30 | 0 | 0 | 0 | 1.134 | 12.24 | 1860 | 11.85 | 1921 |
| 40 | 0 | 0 | 0 | 1.134 | 12.51 | 1820 | 12.12 | 1878 |
| 50 | 0 | 0 | 0 | 1.134 | 12.78 | 1782 | 12.39 | 1837 |
| 60 | 0 | 0 | 0 | 1.134 | 13.04 | 1746 | 12.66 | 1799 |
| 70 | 0 | 0 | 0 | 1.134 | 13.3 | 1713 | 12.92 | 1763 |
| 80 | 0 | 0 | 0 | 1.134 | 13.56 | 1681 | 13.18 | 1729 |
| 90 | 0 | 0 | 0 | 1.134 | 13.81 | 1650 | 13.43 | 1697 |
| 100 | 0 | 0 | 0 | 1.134 | 14.05 | 1622 | 13.68 | 1666 |
| 110 | 0 | 0 | 0 | 1.134 | 14.3 | 1594 | 13.92 | 1637 |
| 120 | 0 | 0 | 0 | 1.134 | 14.54 | 1568 | 14.16 | 1610 |
| 130 | 0 | 0 | 0 | 1.134 | 14.77 | 1544 | 14.4 | 1583 |
| 167 | 0 | 0 | 0 | 1.134 | 15.62 | 1461 | 15.25 | 1496 |
| 212 | 0 | 0 | 0 | 1.134 | 16.23 | 1407 | 16.22 | 1407 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 20.14 | 2458 | 19.79 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 19.12 | 1865 | 18.71 | 1904 |
| 30 | 0 | 0 | 0 | 1.134 | 19.39 | 1838 | 18.99 | 1877 |
| 40 | 0 | 0 | 0 | 1.134 | 19.67 | 1813 | 19.27 | 1850 |
| 50 | 0 | 0 | 0 | 1.134 | 19.94 | 1788 | 19.54 | 1824 |
| 60 | 0 | 0 | 0 | 1.134 | 20.21 | 1765 | 19.81 | 1800 |
| 70 | 0 | 0 | 0 | 1.134 | 20.48 | 1742 | 20.08 | 1776 |
| 80 | 0 | 0 | 0 | 1.134 | 20.74 | 1720 | 20.34 | 1754 |
| 90 | 0 | 0 | 0 | 1.134 | 21 | 1699 | 20.6 | 1732 |
| 100 | 0 | 0 | 0 | 1.134 | 21.26 | 1679 | 20.86 | 1711 |
| 110 | 0 | 0 | 0 | 1.134 | 21.51 | 1659 | 21.11 | 1690 |
| 120 | 0 | 0 | 0 | 1.134 | 21.76 | 1641 | 21.37 | 1671 |
| 130 | 0 | 0 | 0 | 1.134 | 22.01 | 1622 | 21.61 | 1652 |
| 167 | 0 | 0 | 0 | 1.134 | 22.91 | 1560 | 22.51 | 1587 |
| 212 | 0 | 0 | 0 | 1.134 | 23.68 | 1510 | 23.56 | 1517 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 |
| 125.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-2 | 2-5 |
| 150.00 | 0-10 | 1-0 | 1-2 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 |
| 175.00 | 1-1 | 1-4 | 1-8 | 2-0 | 2-5 | 2-11 | 3-5 | 3-10 | 4-3 | 4-8 |
| 200.00 | 1-6 | 1-9 | 2-2 | 2-7 | 3-2 | 3-10 | 4-5 | 5-0 | 5-7 | 6-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 |
| 125.00 | 0-7 | 0-9 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-8 |
| 150.00 | 0-11 | 1-1 | 1-5 | 1-9 | 2-2 | 2-6 | 2-11 | 3-2 | 3-6 | 3-10 |
| 175.00 | 1-2 | 1-6 | 1-11 | 2-5 | 2-11 | 3-5 | 3-11 | 4-4 | 4-9 | 5-2 |
| 200.00 | 1-7 | 2-0 | 2-6 | 3-2 | 3-10 | 4-6 | 5-2 | 5-8 | 6-3 | 6-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 125.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 150.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 |
| 175.00 | 1-8 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 200.00 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 |
| 225.00 | 2-9 | 3-1 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 |
| 250.00 | 3-5 | 3-10 | 4-3 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-3 | 6-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 150.00 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 |
| 175.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 |
| 200.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 |
| 225.00 | 3-2 | 3-6 | 3-9 | 4-1 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 |
| 250.00 | 3-10 | 4-3 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 |
| 175.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200.00 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 |
| 225.00 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 | 4-8 |
| 250.00 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 |
| 275.00 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 |
| 300.00 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 |
| 325.00 | 7-1 | 7-5 | 7-9 | 8-1 | 8-4 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 |
| 350.00 | 8-3 | 8-7 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 |
| 375.00 | 9-5 | 9-11 | 10-4 | 10-9 | 11-1 | 11-6 | 11-11 | 12-3 | 12-8 | 13-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 200.00 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 |
| 225.00 | 3-7 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 |
| 250.00 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 |
| 275.00 | 5-5 | 5-7 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 |
| 300.00 | 6-5 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-8 |
| 325.00 | 7-6 | 7-10 | 8-2 | 8-6 | 8-9 | 9-1 | 9-4 | 9-7 | 9-11 | 10-2 |
| 350.00 | 8-9 | 9-1 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-9 |
| 375.00 | 10-0 | 10-5 | 10-10 | 11-3 | 11-8 | 12-1 | 12-5 | 12-10 | 13-2 | 13-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.152

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 |
| 225.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 250.00 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 275.00 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 |
| 300.00 | 6-6 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-5 | 7-7 | 7-8 | 7-10 |
| 325.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 |
| 350.00 | 8-10 | 9-1 | 9-3 | 9-6 | 9-8 | 9-11 | 10-1 | 10-3 | 10-6 | 10-8 |
| 375.00 | 10-2 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-7 | 11-10 | 12-0 | 12-3 |
| 400.00 | 11-7 | 11-10 | 12-1 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-11 |
| 425.00 | 13-1 | 13-5 | 13-8 | 14-0 | 14-4 | 14-7 | 14-11 | 15-2 | 15-5 | 15-9 |
| 450.00 | 14-8 | 15-0 | 15-4 | 15-8 | 16-0 | 16-4 | 16-8 | 17-0 | 17-4 | 17-8 |
| 475.00 | 16-4 | 16-9 | 17-1 | 17-6 | 17-10 | 18-3 | 18-7 | 18-11 | 19-4 | 19-8 |
| 500.00 | 18-1 | 18-6 | 18-11 | 19-5 | 19-10 | 20-2 | 20-7 | 21-0 | 21-5 | 21-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 |
| 225.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 250.00 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 |
| 275.00 | 5-8 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 |
| 300.00 | 6-9 | 6-11 | 7-0 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 | 7-11 | 8-0 |
| 325.00 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 |
| 350.00 | 9-2 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 | 10-11 |
| 375.00 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 | 12-2 | 12-4 | 12-7 |
| 400.00 | 11-11 | 12-3 | 12-6 | 12-9 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 |
| 425.00 | 13-6 | 13-10 | 14-2 | 14-5 | 14-9 | 15-0 | 15-4 | 15-7 | 15-10 | 16-2 |
| 450.00 | 15-2 | 15-6 | 15-10 | 16-2 | 16-6 | 16-10 | 17-2 | 17-6 | 17-10 | 18-1 |
| 475.00 | 16-10 | 17-3 | 17-8 | 18-0 | 18-5 | 18-9 | 19-2 | 19-6 | 19-10 | 20-2 |
| 500.00 | 18-8 | 19-2 | 19-7 | 20-0 | 20-5 | 20-10 | 21-2 | 21-7 | 22-0 | 22-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 |
| 275.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 300.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 |
| 325.00 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 |
| 350.00 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 |
| 375.00 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 | 11-7 | 11-9 | 11-10 |
| 400.00 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 |
| 425.00 | 13-6 | 13-9 | 13-11 | 14-1 | 14-4 | 14-6 | 14-8 | 14-11 | 15-1 | 15-3 |
| 450.00 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 | 16-3 | 16-6 | 16-8 | 16-11 | 17-1 |
| 475.00 | 16-11 | 17-2 | 17-5 | 17-8 | 17-11 | 18-1 | 18-4 | 18-7 | 18-10 | 19-1 |
| 500.00 | 18-9 | 19-0 | 19-3 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 |
| 525.00 | 20-8 | 20-11 | 21-3 | 21-7 | 21-10 | 22-2 | 22-5 | 22-9 | 23-0 | 23-3 |
| 550.00 | 22-8 | 23-0 | 23-4 | 23-8 | 24-0 | 24-4 | 24-8 | 24-11 | 25-3 | 25-7 |
| 575.00 | 24-9 | 25-2 | 25-6 | 25-10 | 26-3 | 26-7 | 26-11 | 27-3 | 27-7 | 27-11 |
| 600.00 | 27-0 | 27-4 | 27-9 | 28-2 | 28-7 | 28-11 | 29-4 | 29-8 | 30-1 | 30-5 |
| 625.00 | 29-3 | 29-9 | 30-2 | 30-7 | 31-0 | 31-5 | 31-10 | 32-3 | 32-8 | 33-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 |
| 275.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 300.00 | 6-10 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 |
| 325.00 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 |
| 350.00 | 9-4 | 9-6 | 9-8 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 |
| 375.00 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 |
| 400.00 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 |
| 425.00 | 13-10 | 14-0 | 14-2 | 14-5 | 14-7 | 14-9 | 15-0 | 15-2 | 15-4 | 15-6 |
| 450.00 | 15-6 | 15-8 | 15-11 | 16-2 | 16-4 | 16-7 | 16-10 | 17-0 | 17-3 | 17-5 |
| 475.00 | 17-3 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 18-11 | 19-2 | 19-5 |
| 500.00 | 19-1 | 19-5 | 19-8 | 19-11 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 |
| 525.00 | 21-1 | 21-5 | 21-8 | 22-0 | 22-3 | 22-7 | 22-10 | 23-2 | 23-5 | 23-9 |
| 550.00 | 23-2 | 23-6 | 23-10 | 24-2 | 24-6 | 24-9 | 25-1 | 25-5 | 25-9 | 26-1 |
| 575.00 | 25-4 | 25-8 | 26-0 | 26-5 | 26-9 | 27-1 | 27-5 | 27-10 | 28-2 | 28-6 |
| 600.00 | 27-7 | 27-11 | 28-4 | 28-9 | 29-2 | 29-6 | 29-11 | 30-3 | 30-8 | 31-0 |
| 625.00 | 29-11 | 30-4 | 30-9 | 31-2 | 31-7 | 32-0 | 32-5 | 32-10 | 33-3 | 33-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 0.8 | 2472 | 0.66 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 0.34 | 4207 | 0.31 | 4611 |
| 30 | 0 | 0 | 0 | 1.134 | 0.42 | 3388 | 0.36 | 3954 |
| 40 | 0 | 0 | 0 | 1.134 | 0.53 | 2667 | 0.43 | 3317 |
| 50 | 0 | 0 | 0 | 1.134 | 0.68 | 2095 | 0.52 | 2727 |
| 60 | 0 | 0 | 0 | 1.134 | 0.84 | 1684 | 0.64 | 2215 |
| 70 | 0 | 0 | 0 | 1.134 | 1.01 | 1404 | 0.78 | 1810 |
| 80 | 0 | 0 | 0 | 1.134 | 1.17 | 1211 | 0.94 | 1512 |
| 90 | 0 | 0 | 0 | 1.134 | 1.32 | 1073 | 1.09 | 1297 |
| 100 | 0 | 0 | 0 | 1.134 | 1.46 | 969 | 1.24 | 1141 |
| 110 | 0 | 0 | 0 | 1.134 | 1.6 | 889 | 1.38 | 1025 |
| 120 | 0 | 0 | 0 | 1.134 | 1.65 | 858 | 1.52 | 935 |
| 130 | 0 | 0 | 0 | 1.134 | 1.71 | 828 | 1.64 | 863 |
| 167 | 0 | 0 | 0 | 1.134 | 1.93 | 737 | 1.91 | 745 |
| 212 | 0 | 0 | 0 | 1.134 | 2.17 | 654 | 2.15 | 660 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 2.95 | 2669 | 2.62 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 1.96 | 2898 | 1.65 | 3440 |
| 30 | 0 | 0 | 0 | 1.134 | 2.22 | 2550 | 1.87 | 3035 |
| 40 | 0 | 0 | 0 | 1.134 | 2.49 | 2277 | 2.11 | 2694 |
| 50 | 0 | 0 | 0 | 1.134 | 2.75 | 2062 | 2.35 | 2414 |
| 60 | 0 | 0 | 0 | 1.134 | 3 | 1890 | 2.6 | 2186 |
| 70 | 0 | 0 | 0 | 1.134 | 3.24 | 1749 | 2.84 | 2000 |
| 80 | 0 | 0 | 0 | 1.134 | 3.48 | 1634 | 3.07 | 1846 |
| 90 | 0 | 0 | 0 | 1.134 | 3.7 | 1536 | 3.3 | 1719 |
| 100 | 0 | 0 | 0 | 1.134 | 3.91 | 1453 | 3.52 | 1612 |
| 110 | 0 | 0 | 0 | 1.134 | 4.11 | 1381 | 3.73 | 1520 |
| 120 | 0 | 0 | 0 | 1.134 | 4.31 | 1319 | 3.94 | 1442 |
| 130 | 0 | 0 | 0 | 1.134 | 4.5 | 1263 | 4.14 | 1373 |
| 167 | 0 | 0 | 0 | 1.134 | 4.92 | 1155 | 4.81 | 1181 |
| 212 | 0 | 0 | 0 | 1.134 | 5.31 | 1070 | 5.3 | 1073 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 6.35 | 2794 | 5.91 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 5.19 | 2460 | 4.67 | 2736 |
| 30 | 0 | 0 | 0 | 1.134 | 5.51 | 2319 | 4.98 | 2565 |
| 40 | 0 | 0 | 0 | 1.134 | 5.81 | 2197 | 5.29 | 2417 |
| 50 | 0 | 0 | 0 | 1.134 | 6.11 | 2091 | 5.58 | 2288 |
| 60 | 0 | 0 | 0 | 1.134 | 6.4 | 1998 | 5.88 | 2175 |
| 70 | 0 | 0 | 0 | 1.134 | 6.68 | 1915 | 6.16 | 2075 |
| 80 | 0 | 0 | 0 | 1.134 | 6.94 | 1841 | 6.43 | 1986 |
| 90 | 0 | 0 | 0 | 1.134 | 7.21 | 1775 | 6.7 | 1907 |
| 100 | 0 | 0 | 0 | 1.134 | 7.46 | 1714 | 6.96 | 1836 |
| 110 | 0 | 0 | 0 | 1.134 | 7.71 | 1660 | 7.22 | 1772 |
| 120 | 0 | 0 | 0 | 1.134 | 7.95 | 1610 | 7.46 | 1713 |
| 130 | 0 | 0 | 0 | 1.134 | 8.18 | 1564 | 7.71 | 1660 |
| 167 | 0 | 0 | 0 | 1.134 | 8.95 | 1430 | 8.55 | 1497 |
| 212 | 0 | 0 | 0 | 1.134 | 9.46 | 1354 | 9.45 | 1356 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 11.02 | 2865 | 10.52 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 9.81 | 2319 | 9.21 | 2469 |
| 30 | 0 | 0 | 0 | 1.134 | 10.13 | 2244 | 9.54 | 2384 |
| 40 | 0 | 0 | 0 | 1.134 | 10.45 | 2176 | 9.86 | 2306 |
| 50 | 0 | 0 | 0 | 1.134 | 10.76 | 2113 | 10.17 | 2235 |
| 60 | 0 | 0 | 0 | 1.134 | 11.07 | 2056 | 10.48 | 2169 |
| 70 | 0 | 0 | 0 | 1.134 | 11.36 | 2002 | 10.79 | 2109 |
| 80 | 0 | 0 | 0 | 1.134 | 11.66 | 1952 | 11.08 | 2053 |
| 90 | 0 | 0 | 0 | 1.134 | 11.94 | 1906 | 11.37 | 2001 |
| 100 | 0 | 0 | 0 | 1.134 | 12.22 | 1863 | 11.66 | 1952 |
| 110 | 0 | 0 | 0 | 1.134 | 12.49 | 1822 | 11.93 | 1907 |
| 120 | 0 | 0 | 0 | 1.134 | 12.76 | 1784 | 12.21 | 1865 |
| 130 | 0 | 0 | 0 | 1.134 | 13.03 | 1748 | 12.48 | 1825 |
| 167 | 0 | 0 | 0 | 1.134 | 13.97 | 1632 | 13.43 | 1696 |
| 212 | 0 | 0 | 0 | 1.134 | 14.68 | 1553 | 14.52 | 1571 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.573 | 17 | 2906 | 16.46 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 15.75 | 2258 | 15.12 | 2352 |
| 30 | 0 | 0 | 0 | 1.134 | 16.09 | 2212 | 15.46 | 2301 |
| 40 | 0 | 0 | 0 | 1.134 | 16.41 | 2169 | 15.78 | 2254 |
| 50 | 0 | 0 | 0 | 1.134 | 16.73 | 2128 | 16.11 | 2209 |
| 60 | 0 | 0 | 0 | 1.134 | 17.04 | 2089 | 16.42 | 2167 |
| 70 | 0 | 0 | 0 | 1.134 | 17.35 | 2052 | 16.74 | 2127 |
| 80 | 0 | 0 | 0 | 1.134 | 17.66 | 2017 | 17.04 | 2089 |
| 90 | 0 | 0 | 0 | 1.134 | 17.96 | 1984 | 17.35 | 2053 |
| 100 | 0 | 0 | 0 | 1.134 | 18.25 | 1952 | 17.65 | 2018 |
| 110 | 0 | 0 | 0 | 1.134 | 18.55 | 1921 | 17.94 | 1986 |
| 120 | 0 | 0 | 0 | 1.134 | 18.83 | 1892 | 18.23 | 1954 |
| 130 | 0 | 0 | 0 | 1.134 | 19.12 | 1865 | 18.52 | 1924 |
| 167 | 0 | 0 | 0 | 1.134 | 20.13 | 1772 | 19.54 | 1825 |
| 212 | 0 | 0 | 0 | 1.134 | 21.07 | 1694 | 20.73 | 1721 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 1-11 | 2-2 |
| 150.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-9 | 2-1 | 2-6 | 2-10 | 3-1 |
| 175.00 | 0-11 | 1-1 | 1-4 | 1-7 | 2-0 | 2-5 | 2-10 | 3-4 | 3-10 | 4-3 |
| 200.00 | 1-3 | 1-5 | 1-9 | 2-1 | 2-7 | 3-2 | 3-9 | 4-5 | 5-0 | 5-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 |
| 125.00 | 0-6 | 0-8 | 0-10 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 |
| 150.00 | 0-9 | 0-11 | 1-2 | 1-6 | 1-11 | 2-3 | 2-8 | 3-0 | 3-4 | 3-7 |
| 175.00 | 1-0 | 1-3 | 1-8 | 2-1 | 2-7 | 3-1 | 3-7 | 4-1 | 4-6 | 4-11 |
| 200.00 | 1-4 | 1-8 | 2-2 | 2-8 | 3-4 | 4-1 | 4-8 | 5-4 | 5-10 | 6-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.158

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 |
| 150.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 |
| 175.00 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 200.00 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 |
| 225.00 | 2-1 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-11 | 4-2 | 4-5 | 4-9 |
| 250.00 | 2-7 | 2-11 | 3-3 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 175.00 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 200.00 | 1-11 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 |
| 225.00 | 2-6 | 2-10 | 3-2 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 | 5-2 |
| 250.00 | 3-1 | 3-6 | 3-11 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 |
| 225.00 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-1 |
| 250.00 | 3-3 | 3-5 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 |
| 275.00 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 |
| 300.00 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 | 7-0 | 7-3 |
| 325.00 | 5-6 | 5-10 | 6-2 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 | 8-2 | 8-6 |
| 350.00 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 | 8-9 | 9-2 | 9-6 | 9-10 |
| 375.00 | 7-4 | 7-9 | 8-3 | 8-9 | 9-2 | 9-8 | 10-1 | 10-6 | 10-11 | 11-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 175.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 200.00 | 2-4 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 |
| 225.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 |
| 250.00 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 |
| 275.00 | 4-4 | 4-8 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-1 | 6-3 | 6-6 |
| 300.00 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-2 | 7-6 | 7-8 |
| 325.00 | 6-1 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 | 8-5 | 8-9 | 9-1 |
| 350.00 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 | 9-1 | 9-5 | 9-10 | 10-2 | 10-6 |
| 375.00 | 8-1 | 8-7 | 9-1 | 9-7 | 10-0 | 10-5 | 10-10 | 11-3 | 11-8 | 12-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 225.00 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 250.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 |
| 275.00 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-8 |
| 300.00 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 |
| 325.00 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-11 |
| 350.00 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 | 8-6 | 8-8 | 8-11 | 9-2 |
| 375.00 | 8-1 | 8-5 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 |
| 400.00 | 9-2 | 9-6 | 9-10 | 10-2 | 10-6 | 10-9 | 11-1 | 11-4 | 11-8 | 11-11 |
| 425.00 | 10-5 | 10-9 | 11-2 | 11-6 | 11-10 | 12-2 | 12-6 | 12-10 | 13-2 | 13-6 |
| 450.00 | 11-8 | 12-1 | 12-6 | 12-11 | 13-3 | 13-8 | 14-0 | 14-5 | 14-9 | 15-1 |
| 475.00 | 13-0 | 13-5 | 13-11 | 14-4 | 14-9 | 15-3 | 15-8 | 16-1 | 16-5 | 16-10 |
| 500.00 | 14-5 | 14-11 | 15-5 | 15-11 | 16-5 | 16-10 | 17-4 | 17-9 | 18-3 | 18-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 225.00 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 250.00 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-11 |
| 275.00 | 4-8 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 |
| 300.00 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 |
| 325.00 | 6-6 | 6-8 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-11 | 8-1 | 8-3 |
| 350.00 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 |
| 375.00 | 8-7 | 8-11 | 9-2 | 9-5 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 |
| 400.00 | 9-10 | 10-2 | 10-5 | 10-9 | 11-1 | 11-4 | 11-8 | 11-11 | 12-3 | 12-6 |
| 425.00 | 11-1 | 11-5 | 11-10 | 12-2 | 12-6 | 12-10 | 13-2 | 13-6 | 13-10 | 14-1 |
| 450.00 | 12-5 | 12-10 | 13-3 | 13-7 | 14-0 | 14-5 | 14-9 | 15-1 | 15-6 | 15-10 |
| 475.00 | 13-10 | 14-4 | 14-9 | 15-2 | 15-7 | 16-0 | 16-5 | 16-10 | 17-3 | 17-8 |
| 500.00 | 15-4 | 15-10 | 16-4 | 16-10 | 17-4 | 17-9 | 18-3 | 18-8 | 19-1 | 19-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 275.00 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 300.00 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 |
| 325.00 | 6-5 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 |
| 350.00 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 |
| 375.00 | 8-6 | 8-8 | 8-10 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 |
| 400.00 | 9-8 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 | 11-6 |
| 425.00 | 10-11 | 11-2 | 11-5 | 11-8 | 11-10 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 |
| 450.00 | 12-3 | 12-6 | 12-9 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 |
| 475.00 | 13-8 | 13-11 | 14-3 | 14-6 | 14-10 | 15-1 | 15-5 | 15-8 | 15-11 | 16-2 |
| 500.00 | 15-1 | 15-5 | 15-9 | 16-1 | 16-5 | 16-9 | 17-1 | 17-4 | 17-8 | 17-11 |
| 525.00 | 16-8 | 17-1 | 17-5 | 17-9 | 18-1 | 18-5 | 18-10 | 19-2 | 19-5 | 19-9 |
| 550.00 | 18-4 | 18-8 | 19-1 | 19-6 | 19-11 | 20-3 | 20-8 | 21-0 | 21-4 | 21-9 |
| 575.00 | 20-0 | 20-5 | 20-11 | 21-4 | 21-9 | 22-2 | 22-7 | 22-11 | 23-4 | 23-9 |
| 600.00 | 21-9 | 22-3 | 22-9 | 23-3 | 23-8 | 24-1 | 24-7 | 25-0 | 25-5 | 25-10 |
| 625.00 | 23-8 | 24-2 | 24-8 | 25-2 | 25-8 | 26-2 | 26-8 | 27-2 | 27-7 | 28-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 275.00 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 300.00 | 5-8 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 |
| 325.00 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 |
| 350.00 | 7-9 | 7-11 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 |
| 375.00 | 8-10 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 |
| 400.00 | 10-1 | 10-3 | 10-6 | 10-8 | 10-11 | 11-1 | 11-4 | 11-6 | 11-8 | 11-10 |
| 425.00 | 11-5 | 11-7 | 11-10 | 12-1 | 12-4 | 12-6 | 12-9 | 13-0 | 13-2 | 13-5 |
| 450.00 | 12-9 | 13-0 | 13-3 | 13-7 | 13-10 | 14-1 | 14-4 | 14-6 | 14-9 | 15-0 |
| 475.00 | 14-3 | 14-6 | 14-10 | 15-1 | 15-5 | 15-8 | 15-11 | 16-2 | 16-6 | 16-9 |
| 500.00 | 15-9 | 16-1 | 16-5 | 16-9 | 17-1 | 17-4 | 17-8 | 17-11 | 18-3 | 18-7 |
| 525.00 | 17-4 | 17-9 | 18-1 | 18-5 | 18-10 | 19-2 | 19-6 | 19-10 | 20-2 | 20-5 |
| 550.00 | 19-1 | 19-6 | 19-10 | 20-3 | 20-8 | 21-0 | 21-4 | 21-9 | 22-1 | 22-5 |
| 575.00 | 20-10 | 21-3 | 21-9 | 22-2 | 22-7 | 23-0 | 23-4 | 23-9 | 24-2 | 24-6 |
| 600.00 | 22-8 | 23-2 | 23-8 | 24-1 | 24-7 | 25-0 | 25-5 | 25-11 | 26-4 | 26-9 |
| 625.00 | 24-8 | 25-2 | 25-8 | 26-2 | 26-8 | 27-2 | 27-7 | 28-1 | 28-7 | 29-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 1.97 | 1000 | 1.97 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 1.7 | 833 | 1.7 | 834 |
| 30 | 0 | 0 | 0 | 1.134 | 2.04 | 694 | 2.04 | 697 |
| 40 | 0 | 0 | 0 | 1.134 | 2.15 | 662 | 2.14 | 664 |
| 50 | 0 | 0 | 0 | 1.134 | 2.24 | 633 | 2.23 | 636 |
| 60 | 0 | 0 | 0 | 1.134 | 2.34 | 608 | 2.33 | 610 |
| 70 | 0 | 0 | 0 | 1.134 | 2.43 | 585 | 2.42 | 588 |
| 80 | 0 | 0 | 0 | 1.134 | 2.52 | 565 | 2.5 | 568 |
| 90 | 0 | 0 | 0 | 1.134 | 2.6 | 547 | 2.59 | 549 |
| 100 | 0 | 0 | 0 | 1.134 | 2.67 | 532 | 2.67 | 532 |
| 110 | 0 | 0 | 0 | 1.134 | 2.72 | 522 | 2.72 | 522 |
| 120 | 0 | 0 | 0 | 1.134 | 2.77 | 514 | 2.77 | 514 |
| 130 | 0 | 0 | 0 | 1.134 | 2.81 | 506 | 2.81 | 506 |
| 167 | 0 | 0 | 0 | 1.134 | 2.97 | 479 | 2.97 | 479 |
| 212 | 0 | 0 | 0 | 1.134 | 3.16 | 451 | 3.16 | 451 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 7.92 | 1000 | 7.92 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 7.65 | 745 | 7.65 | 746 |
| 30 | 0 | 0 | 0 | 1.134 | 7.99 | 714 | 7.99 | 714 |
| 40 | 0 | 0 | 0 | 1.134 | 8.1 | 704 | 8.09 | 705 |
| 50 | 0 | 0 | 0 | 1.134 | 8.21 | 695 | 8.2 | 696 |
| 60 | 0 | 0 | 0 | 1.134 | 8.32 | 686 | 8.31 | 687 |
| 70 | 0 | 0 | 0 | 1.134 | 8.42 | 678 | 8.41 | 679 |
| 80 | 0 | 0 | 0 | 1.134 | 8.53 | 670 | 8.51 | 671 |
| 90 | 0 | 0 | 0 | 1.134 | 8.63 | 662 | 8.62 | 663 |
| 100 | 0 | 0 | 0 | 1.134 | 8.73 | 654 | 8.72 | 655 |
| 110 | 0 | 0 | 0 | 1.134 | 8.82 | 648 | 8.82 | 648 |
| 120 | 0 | 0 | 0 | 1.134 | 8.9 | 642 | 8.9 | 642 |
| 130 | 0 | 0 | 0 | 1.134 | 8.96 | 638 | 8.96 | 638 |
| 167 | 0 | 0 | 0 | 1.134 | 9.17 | 623 | 9.17 | 623 |
| 212 | 0 | 0 | 0 | 1.134 | 9.43 | 607 | 9.43 | 607 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 17.96 | 1000 | 17.96 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 17.69 | 731 | 17.68 | 731 |
| 30 | 0 | 0 | 0 | 1.134 | 18.03 | 718 | 18.03 | 718 |
| 40 | 0 | 0 | 0 | 1.134 | 18.14 | 713 | 18.14 | 714 |
| 50 | 0 | 0 | 0 | 1.134 | 18.25 | 709 | 18.25 | 710 |
| 60 | 0 | 0 | 0 | 1.134 | 18.36 | 705 | 18.35 | 706 |
| 70 | 0 | 0 | 0 | 1.134 | 18.47 | 701 | 18.46 | 701 |
| 80 | 0 | 0 | 0 | 1.134 | 18.58 | 697 | 18.57 | 698 |
| 90 | 0 | 0 | 0 | 1.134 | 18.69 | 693 | 18.68 | 694 |
| 100 | 0 | 0 | 0 | 1.134 | 18.8 | 689 | 18.78 | 690 |
| 110 | 0 | 0 | 0 | 1.134 | 18.9 | 686 | 18.89 | 686 |
| 120 | 0 | 0 | 0 | 1.134 | 18.99 | 682 | 18.99 | 682 |
| 130 | 0 | 0 | 0 | 1.134 | 19.06 | 680 | 19.06 | 680 |
| 167 | 0 | 0 | 0 | 1.134 | 19.3 | 672 | 19.3 | 672 |
| 212 | 0 | 0 | 0 | 1.134 | 19.58 | 663 | 19.58 | 663 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 32.29 | 1000 | 32.29 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 32.03 | 726 | 32.02 | 726 |
| 30 | 0 | 0 | 0 | 1.134 | 32.37 | 719 | 32.36 | 719 |
| 40 | 0 | 0 | 0 | 1.134 | 32.48 | 717 | 32.47 | 717 |
| 50 | 0 | 0 | 0 | 1.134 | 32.59 | 714 | 32.58 | 715 |
| 60 | 0 | 0 | 0 | 1.134 | 32.7 | 712 | 32.69 | 712 |
| 70 | 0 | 0 | 0 | 1.134 | 32.81 | 710 | 32.8 | 710 |
| 80 | 0 | 0 | 0 | 1.134 | 32.92 | 708 | 32.91 | 708 |
| 90 | 0 | 0 | 0 | 1.134 | 33.03 | 705 | 33.02 | 706 |
| 100 | 0 | 0 | 0 | 1.134 | 33.14 | 703 | 33.13 | 703 |
| 110 | 0 | 0 | 0 | 1.134 | 33.25 | 701 | 33.24 | 701 |
| 120 | 0 | 0 | 0 | 1.134 | 33.34 | 699 | 33.34 | 699 |
| 130 | 0 | 0 | 0 | 1.134 | 33.42 | 698 | 33.42 | 698 |
| 167 | 0 | 0 | 0 | 1.134 | 33.67 | 693 | 33.67 | 693 |
| 212 | 0 | 0 | 0 | 1.134 | 33.96 | 687 | 33.96 | 687 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 51.24 | 1000 | 51.24 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 50.98 | 724 | 50.97 | 724 |
| 30 | 0 | 0 | 0 | 1.134 | 51.32 | 720 | 51.31 | 720 |
| 40 | 0 | 0 | 0 | 1.134 | 51.43 | 718 | 51.43 | 718 |
| 50 | 0 | 0 | 0 | 1.134 | 51.55 | 717 | 51.54 | 717 |
| 60 | 0 | 0 | 0 | 1.134 | 51.66 | 715 | 51.65 | 716 |
| 70 | 0 | 0 | 0 | 1.134 | 51.77 | 714 | 51.76 | 714 |
| 80 | 0 | 0 | 0 | 1.134 | 51.88 | 713 | 51.87 | 713 |
| 90 | 0 | 0 | 0 | 1.134 | 51.99 | 711 | 51.97 | 711 |
| 100 | 0 | 0 | 0 | 1.134 | 52.1 | 710 | 52.08 | 710 |
| 110 | 0 | 0 | 0 | 1.134 | 52.21 | 709 | 52.19 | 709 |
| 120 | 0 | 0 | 0 | 1.134 | 52.3 | 707 | 52.3 | 707 |
| 130 | 0 | 0 | 0 | 1.134 | 52.39 | 706 | 52.39 | 706 |
| 167 | 0 | 0 | 0 | 1.134 | 52.63 | 703 | 52.63 | 703 |
| 212 | 0 | 0 | 0 | 1.134 | 52.93 | 700 | 52.93 | 700 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 100.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 125.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-3 |
| 150.00 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-0 | 6-2 |
| 175.00 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 |
| 200.00 | 7-9 | 8-2 | 8-7 | 8-11 | 9-4 | 9-8 | 10-0 | 10-5 | 10-9 | 10-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-6 |
| 100.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 125.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 |
| 150.00 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 |
| 175.00 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-5 | 7-9 | 8-0 | 8-2 | 8-4 |
| 200.00 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 | 10-5 | 10-9 | 10-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 |
| 125.00 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 |
| 150.00 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 |
| 175.00 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 |
| 200.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 |
| 225.00 | 10-0 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 |
| 250.00 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 |
| 125.00 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 |
| 150.00 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 |
| 175.00 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 |
| 200.00 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 |
| 225.00 | 10-0 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 |
| 250.00 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 |
| 175.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 |
| 200.00 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 |
| 225.00 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 |
| 250.00 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 |
| 275.00 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 |
| 300.00 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-6 | 18-7 | 18-8 | 18-9 | 18-11 |
| 325.00 | 21-1 | 21-2 | 21-4 | 21-5 | 21-7 | 21-8 | 21-10 | 21-11 | 22-1 | 22-2 |
| 350.00 | 24-5 | 24-7 | 24-9 | 24-11 | 25-0 | 25-2 | 25-4 | 25-6 | 25-7 | 25-9 |
| 375.00 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-8 |
| 175.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 |
| 200.00 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 |
| 225.00 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 |
| 250.00 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 |
| 275.00 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 |
| 300.00 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-6 | 18-7 | 18-8 | 18-10 | 18-11 |
| 325.00 | 21-1 | 21-2 | 21-4 | 21-5 | 21-7 | 21-8 | 21-10 | 21-11 | 22-1 | 22-2 |
| 350.00 | 24-5 | 24-7 | 24-9 | 24-11 | 25-0 | 25-2 | 25-4 | 25-6 | 25-8 | 25-9 |
| 375.00 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 |
| 225.00 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 |
| 250.00 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 |
| 275.00 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-8 |
| 300.00 | 18-1 | 18-2 | 18-2 | 18-3 | 18-4 | 18-5 | 18-5 | 18-6 | 18-7 | 18-7 |
| 325.00 | 21-3 | 21-4 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-10 |
| 350.00 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 |
| 375.00 | 28-4 | 28-5 | 28-6 | 28-7 | 28-8 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 |
| 400.00 | 32-3 | 32-4 | 32-6 | 32-7 | 32-8 | 32-10 | 32-11 | 33-0 | 33-2 | 33-3 |
| 425.00 | 36-5 | 36-7 | 36-8 | 36-10 | 36-11 | 37-1 | 37-2 | 37-4 | 37-5 | 37-7 |
| 450.00 | 40-11 | 41-1 | 41-2 | 41-4 | 41-6 | 41-7 | 41-9 | 41-11 | 42-0 | 42-2 |
| 475.00 | 45-8 | 45-10 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 | 46-9 | 46-11 | 47-0 |
| 500.00 | 50-8 | 50-10 | 51-0 | 51-2 | 51-4 | 51-6 | 51-8 | 51-10 | 52-0 | 52-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 |
| 225.00 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 |
| 250.00 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 12-11 |
| 275.00 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-8 |
| 300.00 | 18-1 | 18-2 | 18-2 | 18-3 | 18-4 | 18-5 | 18-5 | 18-6 | 18-7 | 18-8 |
| 325.00 | 21-3 | 21-4 | 21-5 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 |
| 350.00 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 |
| 375.00 | 28-4 | 28-5 | 28-6 | 28-7 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 |
| 400.00 | 32-3 | 32-4 | 32-6 | 32-7 | 32-8 | 32-10 | 32-11 | 33-0 | 33-2 | 33-3 |
| 425.00 | 36-5 | 36-7 | 36-9 | 36-10 | 37-0 | 37-1 | 37-3 | 37-4 | 37-5 | 37-7 |
| 450.00 | 40-11 | 41-1 | 41-2 | 41-4 | 41-6 | 41-8 | 41-9 | 41-11 | 42-1 | 42-2 |
| 475.00 | 45-8 | 45-10 | 46-0 | 46-1 | 46-3 | 46-5 | 46-7 | 46-9 | 46-11 | 47-1 |
| 500.00 | 50-8 | 50-10 | 51-0 | 51-2 | 51-4 | 51-6 | 51-8 | 51-10 | 52-1 | 52-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-11 | 12-11 |
| 275.00 | 15-4 | 15-5 | 15-5 | 15-5 | 15-6 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 |
| 300.00 | 18-3 | 18-4 | 18-4 | 18-5 | 18-5 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 |
| 325.00 | 21-6 | 21-6 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 |
| 350.00 | 24-11 | 25-0 | 25-0 | 25-1 | 25-2 | 25-2 | 25-3 | 25-3 | 25-4 | 25-5 |
| 375.00 | 28-8 | 28-8 | 28-9 | 28-10 | 28-11 | 28-11 | 29-0 | 29-1 | 29-1 | 29-2 |
| 400.00 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-0 | 33-1 | 33-2 | 33-3 |
| 425.00 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 | 37-7 |
| 450.00 | 41-4 | 41-5 | 41-7 | 41-8 | 41-9 | 41-10 | 41-11 | 42-0 | 42-1 | 42-2 |
| 475.00 | 46-2 | 46-3 | 46-4 | 46-5 | 46-7 | 46-8 | 46-9 | 46-10 | 46-11 | 47-0 |
| 500.00 | 51-2 | 51-4 | 51-5 | 51-6 | 51-8 | 51-9 | 51-10 | 52-0 | 52-1 | 52-2 |
| 525.00 | 56-6 | 56-8 | 56-9 | 56-11 | 57-0 | 57-2 | 57-3 | 57-5 | 57-6 | 57-8 |
| 550.00 | 62-2 | 62-3 | 62-5 | 62-6 | 62-8 | 62-10 | 62-11 | 63-1 | 63-2 | 63-4 |
| 575.00 | 68-0 | 68-2 | 68-4 | 68-6 | 68-7 | 68-9 | 68-11 | 69-1 | 69-2 | 69-4 |
| 600.00 | 74-2 | 74-4 | 74-6 | 74-8 | 74-10 | 75-0 | 75-2 | 75-4 | 75-6 | 75-7 |
| 625.00 | 80-7 | 80-10 | 81-0 | 81-2 | 81-4 | 81-6 | 81-8 | 81-10 | 82-0 | 82-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-11 | 12-11 |
| 275.00 | 15-4 | 15-5 | 15-5 | 15-5 | 15-6 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 |
| 300.00 | 18-3 | 18-4 | 18-4 | 18-5 | 18-5 | 18-6 | 18-6 | 18-7 | 18-7 | 18-8 |
| 325.00 | 21-6 | 21-6 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-11 |
| 350.00 | 24-11 | 25-0 | 25-0 | 25-1 | 25-2 | 25-2 | 25-3 | 25-4 | 25-4 | 25-5 |
| 375.00 | 28-8 | 28-8 | 28-9 | 28-10 | 28-11 | 28-11 | 29-0 | 29-1 | 29-1 | 29-2 |
| 400.00 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-0 | 33-1 | 33-2 | 33-3 |
| 425.00 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 | 37-7 |
| 450.00 | 41-4 | 41-6 | 41-7 | 41-8 | 41-9 | 41-10 | 41-11 | 42-0 | 42-1 | 42-2 |
| 475.00 | 46-2 | 46-3 | 46-4 | 46-5 | 46-7 | 46-8 | 46-9 | 46-10 | 46-11 | 47-1 |
| 500.00 | 51-3 | 51-4 | 51-5 | 51-7 | 51-8 | 51-9 | 51-11 | 52-0 | 52-1 | 52-2 |
| 525.00 | 56-6 | 56-8 | 56-9 | 56-11 | 57-0 | 57-2 | 57-3 | 57-5 | 57-6 | 57-8 |
| 550.00 | 62-2 | 62-3 | 62-5 | 62-7 | 62-8 | 62-10 | 62-11 | 63-1 | 63-3 | 63-4 |
| 575.00 | 68-0 | 68-2 | 68-4 | 68-6 | 68-7 | 68-9 | 68-11 | 69-1 | 69-3 | 69-4 |
| 600.00 | 74-2 | 74-4 | 74-6 | 74-8 | 74-10 | 75-0 | 75-2 | 75-4 | 75-6 | 75-8 |
| 625.00 | 80-8 | 80-10 | 81-0 | 81-2 | 81-4 | 81-6 | 81-8 | 81-10 | 82-1 | 82-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 1.31 | 1500 | 1.31 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 0.93 | 1527 | 0.93 | 1527 |
| 30 | 0 | 0 | 0 | 1.134 | 1.39 | 1019 | 1.38 | 1032 |
| 40 | 0 | 0 | 0 | 1.134 | 1.53 | 928 | 1.51 | 940 |
| 50 | 0 | 0 | 0 | 1.134 | 1.66 | 856 | 1.64 | 868 |
| 60 | 0 | 0 | 0 | 1.134 | 1.78 | 798 | 1.76 | 809 |
| 70 | 0 | 0 | 0 | 1.134 | 1.89 | 750 | 1.87 | 760 |
| 80 | 0 | 0 | 0 | 1.134 | 2 | 710 | 1.98 | 718 |
| 90 | 0 | 0 | 0 | 1.134 | 2.1 | 675 | 2.08 | 683 |
| 100 | 0 | 0 | 0 | 1.134 | 2.2 | 644 | 2.18 | 652 |
| 110 | 0 | 0 | 0 | 1.134 | 2.27 | 625 | 2.27 | 625 |
| 120 | 0 | 0 | 0 | 1.134 | 2.34 | 607 | 2.34 | 607 |
| 130 | 0 | 0 | 0 | 1.134 | 2.39 | 595 | 2.39 | 595 |
| 167 | 0 | 0 | 0 | 1.134 | 2.57 | 554 | 2.57 | 554 |
| 212 | 0 | 0 | 0 | 1.134 | 2.77 | 512 | 2.77 | 512 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 5.28 | 1495 | 5.26 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 4.87 | 1168 | 4.84 | 1175 |
| 30 | 0 | 0 | 0 | 1.134 | 5.37 | 1060 | 5.33 | 1067 |
| 40 | 0 | 0 | 0 | 1.134 | 5.52 | 1030 | 5.49 | 1036 |
| 50 | 0 | 0 | 0 | 1.134 | 5.68 | 1002 | 5.64 | 1009 |
| 60 | 0 | 0 | 0 | 1.134 | 5.83 | 976 | 5.79 | 983 |
| 70 | 0 | 0 | 0 | 1.134 | 5.97 | 953 | 5.93 | 959 |
| 80 | 0 | 0 | 0 | 1.134 | 6.12 | 931 | 6.08 | 937 |
| 90 | 0 | 0 | 0 | 1.134 | 6.26 | 910 | 6.21 | 916 |
| 100 | 0 | 0 | 0 | 1.134 | 6.39 | 891 | 6.35 | 896 |
| 110 | 0 | 0 | 0 | 1.134 | 6.53 | 872 | 6.48 | 878 |
| 120 | 0 | 0 | 0 | 1.134 | 6.66 | 855 | 6.61 | 861 |
| 130 | 0 | 0 | 0 | 1.134 | 6.79 | 839 | 6.74 | 845 |
| 167 | 0 | 0 | 0 | 1.134 | 7.07 | 806 | 7.07 | 806 |
| 212 | 0 | 0 | 0 | 1.134 | 7.38 | 773 | 7.38 | 773 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 11.91 | 1496 | 11.87 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 11.5 | 1116 | 11.45 | 1121 |
| 30 | 0 | 0 | 0 | 1.134 | 12 | 1070 | 11.95 | 1074 |
| 40 | 0 | 0 | 0 | 1.134 | 12.16 | 1056 | 12.11 | 1060 |
| 50 | 0 | 0 | 0 | 1.134 | 12.32 | 1042 | 12.27 | 1047 |
| 60 | 0 | 0 | 0 | 1.134 | 12.48 | 1029 | 12.43 | 1034 |
| 70 | 0 | 0 | 0 | 1.134 | 12.64 | 1017 | 12.58 | 1021 |
| 80 | 0 | 0 | 0 | 1.134 | 12.79 | 1004 | 12.74 | 1009 |
| 90 | 0 | 0 | 0 | 1.134 | 12.95 | 993 | 12.89 | 997 |
| 100 | 0 | 0 | 0 | 1.134 | 13.1 | 981 | 13.04 | 986 |
| 110 | 0 | 0 | 0 | 1.134 | 13.25 | 970 | 13.19 | 975 |
| 120 | 0 | 0 | 0 | 1.134 | 13.4 | 960 | 13.34 | 964 |
| 130 | 0 | 0 | 0 | 1.134 | 13.54 | 950 | 13.48 | 954 |
| 167 | 0 | 0 | 0 | 1.134 | 13.93 | 924 | 13.93 | 924 |
| 212 | 0 | 0 | 0 | 1.134 | 14.3 | 900 | 14.3 | 900 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 21.26 | 1497 | 21.22 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 20.85 | 1100 | 20.79 | 1103 |
| 30 | 0 | 0 | 0 | 1.134 | 21.35 | 1074 | 21.29 | 1077 |
| 40 | 0 | 0 | 0 | 1.134 | 21.51 | 1066 | 21.45 | 1069 |
| 50 | 0 | 0 | 0 | 1.134 | 21.68 | 1059 | 21.62 | 1061 |
| 60 | 0 | 0 | 0 | 1.134 | 21.84 | 1051 | 21.78 | 1054 |
| 70 | 0 | 0 | 0 | 1.134 | 22 | 1043 | 21.94 | 1046 |
| 80 | 0 | 0 | 0 | 1.134 | 22.16 | 1036 | 22.1 | 1039 |
| 90 | 0 | 0 | 0 | 1.134 | 22.32 | 1029 | 22.26 | 1032 |
| 100 | 0 | 0 | 0 | 1.134 | 22.48 | 1022 | 22.41 | 1025 |
| 110 | 0 | 0 | 0 | 1.134 | 22.64 | 1015 | 22.57 | 1018 |
| 120 | 0 | 0 | 0 | 1.134 | 22.79 | 1008 | 22.72 | 1011 |
| 130 | 0 | 0 | 0 | 1.134 | 22.95 | 1001 | 22.88 | 1004 |
| 167 | 0 | 0 | 0 | 1.134 | 23.4 | 983 | 23.4 | 983 |
| 212 | 0 | 0 | 0 | 1.134 | 23.8 | 966 | 23.8 | 966 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 33.41 | 1498 | 33.37 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 33 | 1093 | 32.94 | 1095 |
| 30 | 0 | 0 | 0 | 1.134 | 33.5 | 1077 | 33.44 | 1079 |
| 40 | 0 | 0 | 0 | 1.134 | 33.67 | 1072 | 33.6 | 1074 |
| 50 | 0 | 0 | 0 | 1.134 | 33.83 | 1067 | 33.77 | 1069 |
| 60 | 0 | 0 | 0 | 1.134 | 34 | 1062 | 33.93 | 1064 |
| 70 | 0 | 0 | 0 | 1.134 | 34.16 | 1057 | 34.09 | 1059 |
| 80 | 0 | 0 | 0 | 1.134 | 34.32 | 1052 | 34.26 | 1054 |
| 90 | 0 | 0 | 0 | 1.134 | 34.49 | 1047 | 34.42 | 1049 |
| 100 | 0 | 0 | 0 | 1.134 | 34.65 | 1042 | 34.58 | 1045 |
| 110 | 0 | 0 | 0 | 1.134 | 34.81 | 1038 | 34.74 | 1040 |
| 120 | 0 | 0 | 0 | 1.134 | 34.97 | 1033 | 34.9 | 1035 |
| 130 | 0 | 0 | 0 | 1.134 | 35.13 | 1029 | 35.05 | 1031 |
| 167 | 0 | 0 | 0 | 1.134 | 35.61 | 1015 | 35.61 | 1015 |
| 212 | 0 | 0 | 0 | 1.134 | 36.04 | 1004 | 36.04 | 1004 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 |
| 100.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 |
| 125.00 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 |
| 150.00 | 2-9 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 |
| 175.00 | 3-9 | 4-3 | 4-7 | 5-0 | 5-5 | 5-9 | 6-1 | 6-5 | 6-8 | 7-0 |
| 200.00 | 4-11 | 5-6 | 6-1 | 6-7 | 7-0 | 7-6 | 7-11 | 8-4 | 8-9 | 9-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 100.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 125.00 | 1-11 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-3 | 3-5 | 3-7 |
| 150.00 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-1 |
| 175.00 | 3-10 | 4-3 | 4-8 | 5-1 | 5-5 | 5-10 | 6-2 | 6-5 | 6-9 | 7-0 |
| 200.00 | 5-0 | 5-7 | 6-1 | 6-8 | 7-1 | 7-7 | 8-0 | 8-5 | 8-10 | 9-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 |
| 150.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 175.00 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 |
| 200.00 | 5-2 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 |
| 225.00 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-3 |
| 250.00 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 | 9-6 | 9-9 | 9-11 | 10-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 |
| 125.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 |
| 150.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 175.00 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 |
| 200.00 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 |
| 225.00 | 6-7 | 6-10 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 |
| 250.00 | 8-2 | 8-5 | 8-8 | 8-11 | 9-1 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 |
| 175.00 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 |
| 200.00 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 |
| 225.00 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 250.00 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 |
| 275.00 | 9-11 | 10-0 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-1 |
| 300.00 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-0 | 13-2 |
| 325.00 | 13-10 | 14-0 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-2 | 15-4 | 15-6 |
| 350.00 | 16-1 | 16-3 | 16-6 | 16-9 | 16-11 | 17-2 | 17-4 | 17-7 | 17-9 | 18-0 |
| 375.00 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 | 20-5 | 20-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 |
| 175.00 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 |
| 200.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 225.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 250.00 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 |
| 275.00 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 |
| 300.00 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 | 13-3 |
| 325.00 | 13-11 | 14-1 | 14-3 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-5 | 15-7 |
| 350.00 | 16-1 | 16-4 | 16-7 | 16-9 | 17-0 | 17-3 | 17-5 | 17-8 | 17-10 | 18-1 |
| 375.00 | 18-6 | 18-9 | 19-0 | 19-3 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 |
| 225.00 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 |
| 250.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-10 |
| 275.00 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 |
| 300.00 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 |
| 325.00 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 | 14-9 | 14-11 |
| 350.00 | 16-2 | 16-3 | 16-5 | 16-6 | 16-8 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 |
| 375.00 | 18-7 | 18-8 | 18-10 | 19-0 | 19-2 | 19-3 | 19-5 | 19-7 | 19-8 | 19-10 |
| 400.00 | 21-2 | 21-3 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 | 22-5 | 22-7 |
| 425.00 | 23-10 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 25-0 | 25-2 | 25-4 | 25-6 |
| 450.00 | 26-9 | 27-0 | 27-2 | 27-5 | 27-7 | 27-10 | 28-0 | 28-2 | 28-5 | 28-7 |
| 475.00 | 29-10 | 30-1 | 30-4 | 30-6 | 30-9 | 31-0 | 31-3 | 31-5 | 31-8 | 31-11 |
| 500.00 | 33-1 | 33-4 | 33-7 | 33-10 | 34-1 | 34-4 | 34-7 | 34-10 | 35-1 | 35-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 |
| 225.00 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 |
| 250.00 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 |
| 275.00 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-7 | 10-8 |
| 300.00 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-9 |
| 325.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 | 14-9 | 14-10 | 14-11 |
| 350.00 | 16-2 | 16-4 | 16-5 | 16-7 | 16-8 | 16-10 | 16-11 | 17-1 | 17-2 | 17-4 |
| 375.00 | 18-7 | 18-9 | 18-11 | 19-1 | 19-2 | 19-4 | 19-6 | 19-7 | 19-9 | 19-11 |
| 400.00 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-8 |
| 425.00 | 23-11 | 24-1 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 | 25-3 | 25-5 | 25-7 |
| 450.00 | 26-10 | 27-1 | 27-3 | 27-6 | 27-8 | 27-11 | 28-1 | 28-3 | 28-6 | 28-8 |
| 475.00 | 29-11 | 30-2 | 30-5 | 30-7 | 30-10 | 31-1 | 31-4 | 31-6 | 31-9 | 32-0 |
| 500.00 | 33-2 | 33-5 | 33-8 | 33-11 | 34-2 | 34-5 | 34-8 | 34-11 | 35-2 | 35-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 |
| 275.00 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 |
| 300.00 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 | 12-5 |
| 325.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-7 |
| 350.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 |
| 375.00 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 |
| 400.00 | 21-3 | 21-4 | 21-6 | 21-7 | 21-8 | 21-9 | 21-11 | 22-0 | 22-1 | 22-2 |
| 425.00 | 24-0 | 24-1 | 24-3 | 24-4 | 24-6 | 24-7 | 24-8 | 24-10 | 24-11 | 25-1 |
| 450.00 | 26-11 | 27-1 | 27-2 | 27-4 | 27-5 | 27-7 | 27-9 | 27-10 | 28-0 | 28-1 |
| 475.00 | 30-0 | 30-2 | 30-4 | 30-6 | 30-7 | 30-9 | 30-11 | 31-1 | 31-2 | 31-4 |
| 500.00 | 33-3 | 33-5 | 33-7 | 33-9 | 33-11 | 34-1 | 34-3 | 34-5 | 34-7 | 34-9 |
| 525.00 | 36-8 | 36-11 | 37-1 | 37-3 | 37-5 | 37-7 | 37-9 | 38-0 | 38-2 | 38-4 |
| 550.00 | 40-4 | 40-6 | 40-9 | 40-11 | 41-1 | 41-4 | 41-6 | 41-8 | 41-11 | 42-1 |
| 575.00 | 44-1 | 44-4 | 44-6 | 44-9 | 45-0 | 45-2 | 45-5 | 45-7 | 45-10 | 46-0 |
| 600.00 | 48-0 | 48-3 | 48-6 | 48-9 | 49-0 | 49-3 | 49-6 | 49-8 | 49-11 | 50-2 |
| 625.00 | 52-2 | 52-5 | 52-8 | 52-11 | 53-2 | 53-5 | 53-9 | 54-0 | 54-3 | 54-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 |
| 275.00 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 |
| 300.00 | 11-11 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 |
| 325.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-5 | 14-6 | 14-7 | 14-8 |
| 350.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 |
| 375.00 | 18-8 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 |
| 400.00 | 21-3 | 21-5 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-3 |
| 425.00 | 24-1 | 24-2 | 24-3 | 24-5 | 24-6 | 24-8 | 24-9 | 24-10 | 25-0 | 25-1 |
| 450.00 | 27-0 | 27-1 | 27-3 | 27-4 | 27-6 | 27-8 | 27-9 | 27-11 | 28-0 | 28-2 |
| 475.00 | 30-1 | 30-3 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 | 31-1 | 31-3 | 31-5 |
| 500.00 | 33-4 | 33-6 | 33-8 | 33-10 | 34-0 | 34-2 | 34-4 | 34-6 | 34-8 | 34-10 |
| 525.00 | 36-9 | 37-0 | 37-2 | 37-4 | 37-6 | 37-8 | 37-10 | 38-1 | 38-3 | 38-5 |
| 550.00 | 40-5 | 40-7 | 40-9 | 41-0 | 41-2 | 41-5 | 41-7 | 41-9 | 42-0 | 42-2 |
| 575.00 | 44-2 | 44-5 | 44-7 | 44-10 | 45-1 | 45-3 | 45-6 | 45-8 | 45-11 | 46-2 |
| 600.00 | 48-2 | 48-4 | 48-7 | 48-10 | 49-1 | 49-4 | 49-7 | 49-10 | 50-0 | 50-3 |
| 625.00 | 52-3 | 52-6 | 52-9 | 53-1 | 53-4 | 53-7 | 53-10 | 54-1 | 54-4 | 54-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 0.98 | 2000 | 0.98 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 0.59 | 2423 | 0.59 | 2423 |
| 30 | 0 | 0 | 0 | 1.134 | 1.05 | 1348 | 1.02 | 1384 |
| 40 | 0 | 0 | 0 | 1.134 | 1.21 | 1171 | 1.18 | 1205 |
| 50 | 0 | 0 | 0 | 1.134 | 1.36 | 1043 | 1.32 | 1073 |
| 60 | 0 | 0 | 0 | 1.134 | 1.5 | 947 | 1.46 | 972 |
| 70 | 0 | 0 | 0 | 1.134 | 1.63 | 872 | 1.59 | 893 |
| 80 | 0 | 0 | 0 | 1.134 | 1.75 | 811 | 1.71 | 830 |
| 90 | 0 | 0 | 0 | 1.134 | 1.87 | 761 | 1.83 | 777 |
| 100 | 0 | 0 | 0 | 1.134 | 1.98 | 718 | 1.94 | 733 |
| 110 | 0 | 0 | 0 | 1.134 | 2.07 | 687 | 2.04 | 696 |
| 120 | 0 | 0 | 0 | 1.134 | 2.14 | 664 | 2.14 | 664 |
| 130 | 0 | 0 | 0 | 1.134 | 2.19 | 648 | 2.19 | 648 |
| 167 | 0 | 0 | 0 | 1.134 | 2.38 | 597 | 2.38 | 597 |
| 212 | 0 | 0 | 0 | 1.134 | 2.6 | 547 | 2.6 | 547 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 4.02 | 1960 | 3.94 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 3.47 | 1636 | 3.36 | 1689 |
| 30 | 0 | 0 | 0 | 1.134 | 4.11 | 1383 | 3.99 | 1423 |
| 40 | 0 | 0 | 0 | 1.134 | 4.3 | 1320 | 4.19 | 1356 |
| 50 | 0 | 0 | 0 | 1.134 | 4.49 | 1265 | 4.38 | 1298 |
| 60 | 0 | 0 | 0 | 1.134 | 4.68 | 1215 | 4.56 | 1246 |
| 70 | 0 | 0 | 0 | 1.134 | 4.85 | 1171 | 4.74 | 1200 |
| 80 | 0 | 0 | 0 | 1.134 | 5.02 | 1132 | 4.91 | 1158 |
| 90 | 0 | 0 | 0 | 1.134 | 5.19 | 1095 | 5.08 | 1120 |
| 100 | 0 | 0 | 0 | 1.134 | 5.35 | 1062 | 5.24 | 1085 |
| 110 | 0 | 0 | 0 | 1.134 | 5.51 | 1032 | 5.4 | 1054 |
| 120 | 0 | 0 | 0 | 1.134 | 5.66 | 1004 | 5.55 | 1025 |
| 130 | 0 | 0 | 0 | 1.134 | 5.81 | 979 | 5.7 | 998 |
| 167 | 0 | 0 | 0 | 1.134 | 6.15 | 925 | 6.15 | 925 |
| 212 | 0 | 0 | 0 | 1.134 | 6.5 | 876 | 6.5 | 876 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 9.01 | 1972 | 8.88 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 8.44 | 1516 | 8.28 | 1545 |
| 30 | 0 | 0 | 0 | 1.134 | 9.1 | 1407 | 8.94 | 1433 |
| 40 | 0 | 0 | 0 | 1.134 | 9.31 | 1376 | 9.15 | 1400 |
| 50 | 0 | 0 | 0 | 1.134 | 9.51 | 1347 | 9.35 | 1370 |
| 60 | 0 | 0 | 0 | 1.134 | 9.71 | 1319 | 9.55 | 1341 |
| 70 | 0 | 0 | 0 | 1.134 | 9.91 | 1293 | 9.75 | 1314 |
| 80 | 0 | 0 | 0 | 1.134 | 10.1 | 1268 | 9.94 | 1289 |
| 90 | 0 | 0 | 0 | 1.134 | 10.3 | 1245 | 10.13 | 1265 |
| 100 | 0 | 0 | 0 | 1.134 | 10.48 | 1223 | 10.32 | 1242 |
| 110 | 0 | 0 | 0 | 1.134 | 10.67 | 1202 | 10.51 | 1220 |
| 120 | 0 | 0 | 0 | 1.134 | 10.85 | 1182 | 10.69 | 1200 |
| 130 | 0 | 0 | 0 | 1.134 | 11.03 | 1163 | 10.87 | 1180 |
| 167 | 0 | 0 | 0 | 1.134 | 11.56 | 1110 | 11.5 | 1116 |
| 212 | 0 | 0 | 0 | 1.134 | 11.99 | 1071 | 11.99 | 1071 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 15.98 | 1982 | 15.83 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 15.41 | 1480 | 15.23 | 1498 |
| 30 | 0 | 0 | 0 | 1.134 | 16.07 | 1420 | 15.89 | 1436 |
| 40 | 0 | 0 | 0 | 1.134 | 16.29 | 1402 | 16.1 | 1417 |
| 50 | 0 | 0 | 0 | 1.134 | 16.5 | 1384 | 16.32 | 1399 |
| 60 | 0 | 0 | 0 | 1.134 | 16.71 | 1367 | 16.53 | 1382 |
| 70 | 0 | 0 | 0 | 1.134 | 16.92 | 1350 | 16.73 | 1365 |
| 80 | 0 | 0 | 0 | 1.134 | 17.12 | 1334 | 16.94 | 1349 |
| 90 | 0 | 0 | 0 | 1.134 | 17.33 | 1319 | 17.14 | 1333 |
| 100 | 0 | 0 | 0 | 1.134 | 17.53 | 1304 | 17.34 | 1318 |
| 110 | 0 | 0 | 0 | 1.134 | 17.72 | 1290 | 17.54 | 1303 |
| 120 | 0 | 0 | 0 | 1.134 | 17.92 | 1276 | 17.73 | 1289 |
| 130 | 0 | 0 | 0 | 1.134 | 18.12 | 1262 | 17.93 | 1275 |
| 167 | 0 | 0 | 0 | 1.134 | 18.78 | 1218 | 18.63 | 1228 |
| 212 | 0 | 0 | 0 | 1.134 | 19.26 | 1188 | 19.26 | 1188 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 24.99 | 1987 | 24.83 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 24.41 | 1465 | 24.22 | 1477 |
| 30 | 0 | 0 | 0 | 1.134 | 25.08 | 1427 | 24.89 | 1438 |
| 40 | 0 | 0 | 0 | 1.134 | 25.3 | 1415 | 25.1 | 1426 |
| 50 | 0 | 0 | 0 | 1.134 | 25.51 | 1403 | 25.32 | 1414 |
| 60 | 0 | 0 | 0 | 1.134 | 25.73 | 1392 | 25.53 | 1402 |
| 70 | 0 | 0 | 0 | 1.134 | 25.94 | 1381 | 25.74 | 1391 |
| 80 | 0 | 0 | 0 | 1.134 | 26.15 | 1370 | 25.95 | 1380 |
| 90 | 0 | 0 | 0 | 1.134 | 26.36 | 1359 | 26.16 | 1369 |
| 100 | 0 | 0 | 0 | 1.134 | 26.57 | 1349 | 26.37 | 1359 |
| 110 | 0 | 0 | 0 | 1.134 | 26.78 | 1339 | 26.57 | 1349 |
| 120 | 0 | 0 | 0 | 1.134 | 26.98 | 1329 | 26.78 | 1339 |
| 130 | 0 | 0 | 0 | 1.134 | 27.19 | 1319 | 26.98 | 1329 |
| 167 | 0 | 0 | 0 | 1.134 | 27.93 | 1285 | 27.72 | 1294 |
| 212 | 0 | 0 | 0 | 1.134 | 28.46 | 1261 | 28.46 | 1261 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 |
| 100.00 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 150.00 | 1-11 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 |
| 175.00 | 2-8 | 3-2 | 3-7 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 | 5-11 | 6-3 |
| 200.00 | 3-6 | 4-1 | 4-9 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 | 8-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100.00 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 |
| 125.00 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 150.00 | 2-0 | 2-4 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 |
| 175.00 | 2-9 | 3-3 | 3-9 | 4-2 | 4-7 | 5-0 | 5-4 | 5-9 | 6-1 | 6-4 |
| 200.00 | 3-7 | 4-3 | 4-10 | 5-5 | 6-0 | 6-6 | 7-0 | 7-6 | 7-11 | 8-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 175.00 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 |
| 200.00 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 |
| 225.00 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 |
| 250.00 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 |
| 150.00 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 175.00 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 |
| 200.00 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 |
| 225.00 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 7-0 |
| 250.00 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 | 8-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 175.00 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 |
| 200.00 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 225.00 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 |
| 250.00 | 6-1 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-4 |
| 275.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 |
| 300.00 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 |
| 325.00 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-11 | 12-1 | 12-4 |
| 350.00 | 11-11 | 12-2 | 12-5 | 12-9 | 13-0 | 13-3 | 13-6 | 13-10 | 14-1 | 14-4 |
| 375.00 | 13-8 | 14-0 | 14-4 | 14-7 | 14-11 | 15-3 | 15-7 | 15-10 | 16-2 | 16-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 |
| 175.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 200.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 225.00 | 5-0 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 |
| 250.00 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 |
| 275.00 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 |
| 300.00 | 8-11 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 |
| 325.00 | 10-5 | 10-8 | 10-11 | 11-2 | 11-5 | 11-8 | 11-10 | 12-1 | 12-4 | 12-6 |
| 350.00 | 12-1 | 12-5 | 12-8 | 12-11 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 |
| 375.00 | 13-11 | 14-3 | 14-7 | 14-10 | 15-2 | 15-6 | 15-10 | 16-1 | 16-5 | 16-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 |
| 225.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 |
| 250.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 275.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 300.00 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 |
| 325.00 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 | 11-4 | 11-5 | 11-7 |
| 350.00 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 |
| 375.00 | 13-9 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-11 | 15-1 | 15-3 | 15-5 |
| 400.00 | 15-8 | 15-11 | 16-1 | 16-4 | 16-6 | 16-9 | 16-11 | 17-2 | 17-4 | 17-6 |
| 425.00 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 | 19-4 | 19-7 | 19-10 |
| 450.00 | 19-10 | 20-1 | 20-5 | 20-8 | 20-11 | 21-2 | 21-5 | 21-8 | 22-0 | 22-3 |
| 475.00 | 22-1 | 22-5 | 22-9 | 23-0 | 23-4 | 23-7 | 23-11 | 24-2 | 24-6 | 24-9 |
| 500.00 | 24-6 | 24-10 | 25-2 | 25-6 | 25-10 | 26-2 | 26-6 | 26-10 | 27-2 | 27-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 |
| 225.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 |
| 250.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 |
| 275.00 | 7-6 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 |
| 300.00 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 10-0 |
| 325.00 | 10-6 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 |
| 350.00 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 |
| 375.00 | 13-11 | 14-1 | 14-4 | 14-6 | 14-8 | 14-10 | 15-1 | 15-3 | 15-5 | 15-7 |
| 400.00 | 15-10 | 16-1 | 16-3 | 16-6 | 16-9 | 16-11 | 17-1 | 17-4 | 17-6 | 17-9 |
| 425.00 | 17-11 | 18-2 | 18-5 | 18-8 | 18-10 | 19-1 | 19-4 | 19-7 | 19-9 | 20-0 |
| 450.00 | 20-1 | 20-4 | 20-8 | 20-11 | 21-2 | 21-5 | 21-8 | 21-11 | 22-2 | 22-5 |
| 475.00 | 22-5 | 22-8 | 23-0 | 23-3 | 23-7 | 23-11 | 24-2 | 24-5 | 24-9 | 25-0 |
| 500.00 | 24-10 | 25-2 | 25-6 | 25-10 | 26-2 | 26-6 | 26-9 | 27-1 | 27-5 | 27-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 |
| 275.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 |
| 300.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 |
| 325.00 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 350.00 | 12-1 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 |
| 375.00 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 | 14-10 | 14-11 |
| 400.00 | 15-9 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-7 | 16-9 | 16-10 | 17-0 |
| 425.00 | 17-10 | 18-0 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-0 | 19-2 |
| 450.00 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 |
| 475.00 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 | 23-3 | 23-5 | 23-7 | 23-9 | 24-0 |
| 500.00 | 24-8 | 24-11 | 25-1 | 25-4 | 25-6 | 25-9 | 25-11 | 26-2 | 26-4 | 26-7 |
| 525.00 | 27-2 | 27-5 | 27-8 | 27-11 | 28-2 | 28-5 | 28-7 | 28-10 | 29-1 | 29-4 |
| 550.00 | 29-10 | 30-2 | 30-5 | 30-8 | 30-11 | 31-2 | 31-5 | 31-8 | 31-11 | 32-2 |
| 575.00 | 32-8 | 32-11 | 33-3 | 33-6 | 33-10 | 34-1 | 34-4 | 34-8 | 34-11 | 35-2 |
| 600.00 | 35-7 | 35-11 | 36-2 | 36-6 | 36-10 | 37-2 | 37-5 | 37-9 | 38-0 | 38-4 |
| 625.00 | 38-7 | 38-11 | 39-4 | 39-8 | 40-0 | 40-4 | 40-8 | 41-0 | 41-3 | 41-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 |
| 275.00 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 |
| 300.00 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 |
| 325.00 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 |
| 350.00 | 12-2 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 |
| 375.00 | 14-0 | 14-1 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 | 14-10 | 14-11 | 15-0 |
| 400.00 | 15-11 | 16-0 | 16-2 | 16-4 | 16-5 | 16-7 | 16-9 | 16-10 | 17-0 | 17-1 |
| 425.00 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-0 | 19-2 | 19-4 |
| 450.00 | 20-1 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 |
| 475.00 | 22-5 | 22-8 | 22-10 | 23-0 | 23-3 | 23-5 | 23-7 | 23-9 | 24-0 | 24-2 |
| 500.00 | 24-10 | 25-1 | 25-4 | 25-6 | 25-9 | 25-11 | 26-2 | 26-4 | 26-7 | 26-9 |
| 525.00 | 27-5 | 27-8 | 27-11 | 28-2 | 28-5 | 28-7 | 28-10 | 29-1 | 29-4 | 29-6 |
| 550.00 | 30-1 | 30-4 | 30-8 | 30-11 | 31-2 | 31-5 | 31-8 | 31-11 | 32-2 | 32-5 |
| 575.00 | 32-11 | 33-2 | 33-6 | 33-9 | 34-1 | 34-4 | 34-8 | 34-11 | 35-2 | 35-5 |
| 600.00 | 35-10 | 36-2 | 36-6 | 36-10 | 37-1 | 37-5 | 37-9 | 38-0 | 38-4 | 38-7 |
| 625.00 | 38-11 | 39-3 | 39-7 | 39-11 | 40-3 | 40-7 | 40-11 | 41-3 | 41-7 | 41-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 0.79 | 2490 | 0.79 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 0.44 | 3246 | 0.44 | 3246 |
| 30 | 0 | 0 | 0 | 1.134 | 0.84 | 1697 | 0.8 | 1778 |
| 40 | 0 | 0 | 0 | 1.134 | 1 | 1413 | 0.95 | 1489 |
| 50 | 0 | 0 | 0 | 1.134 | 1.17 | 1217 | 1.11 | 1281 |
| 60 | 0 | 0 | 0 | 1.134 | 1.32 | 1077 | 1.26 | 1129 |
| 70 | 0 | 0 | 0 | 1.134 | 1.46 | 973 | 1.4 | 1016 |
| 80 | 0 | 0 | 0 | 1.134 | 1.59 | 892 | 1.53 | 928 |
| 90 | 0 | 0 | 0 | 1.134 | 1.72 | 827 | 1.65 | 858 |
| 100 | 0 | 0 | 0 | 1.134 | 1.83 | 774 | 1.77 | 801 |
| 110 | 0 | 0 | 0 | 1.134 | 1.94 | 730 | 1.89 | 753 |
| 120 | 0 | 0 | 0 | 1.134 | 2.01 | 705 | 1.99 | 713 |
| 130 | 0 | 0 | 0 | 1.134 | 2.07 | 686 | 2.07 | 687 |
| 167 | 0 | 0 | 0 | 1.134 | 2.27 | 627 | 2.26 | 628 |
| 212 | 0 | 0 | 0 | 1.134 | 2.49 | 570 | 2.48 | 572 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 3.29 | 2392 | 3.15 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 2.62 | 2162 | 2.45 | 2316 |
| 30 | 0 | 0 | 0 | 1.134 | 3.36 | 1688 | 3.17 | 1793 |
| 40 | 0 | 0 | 0 | 1.134 | 3.59 | 1582 | 3.39 | 1674 |
| 50 | 0 | 0 | 0 | 1.134 | 3.8 | 1493 | 3.61 | 1574 |
| 60 | 0 | 0 | 0 | 1.134 | 4.01 | 1416 | 3.82 | 1488 |
| 70 | 0 | 0 | 0 | 1.134 | 4.21 | 1349 | 4.02 | 1413 |
| 80 | 0 | 0 | 0 | 1.134 | 4.4 | 1290 | 4.21 | 1348 |
| 90 | 0 | 0 | 0 | 1.134 | 4.59 | 1238 | 4.4 | 1291 |
| 100 | 0 | 0 | 0 | 1.134 | 4.77 | 1192 | 4.58 | 1240 |
| 110 | 0 | 0 | 0 | 1.134 | 4.94 | 1150 | 4.76 | 1194 |
| 120 | 0 | 0 | 0 | 1.134 | 5.11 | 1112 | 4.93 | 1153 |
| 130 | 0 | 0 | 0 | 1.134 | 5.28 | 1078 | 5.1 | 1115 |
| 167 | 0 | 0 | 0 | 1.134 | 5.66 | 1005 | 5.65 | 1006 |
| 212 | 0 | 0 | 0 | 1.134 | 6.02 | 945 | 6.01 | 946 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 7.33 | 2422 | 7.1 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 6.61 | 1934 | 6.32 | 2021 |
| 30 | 0 | 0 | 0 | 1.134 | 7.4 | 1728 | 7.11 | 1797 |
| 40 | 0 | 0 | 0 | 1.134 | 7.65 | 1672 | 7.36 | 1737 |
| 50 | 0 | 0 | 0 | 1.134 | 7.89 | 1621 | 7.61 | 1681 |
| 60 | 0 | 0 | 0 | 1.134 | 8.13 | 1574 | 7.85 | 1630 |
| 70 | 0 | 0 | 0 | 1.134 | 8.36 | 1531 | 8.08 | 1584 |
| 80 | 0 | 0 | 0 | 1.134 | 8.58 | 1491 | 8.31 | 1541 |
| 90 | 0 | 0 | 0 | 1.134 | 8.8 | 1454 | 8.53 | 1501 |
| 100 | 0 | 0 | 0 | 1.134 | 9.02 | 1420 | 8.74 | 1464 |
| 110 | 0 | 0 | 0 | 1.134 | 9.23 | 1388 | 8.96 | 1429 |
| 120 | 0 | 0 | 0 | 1.134 | 9.44 | 1357 | 9.17 | 1397 |
| 130 | 0 | 0 | 0 | 1.134 | 9.64 | 1329 | 9.37 | 1367 |
| 167 | 0 | 0 | 0 | 1.134 | 10.28 | 1247 | 10.09 | 1270 |
| 212 | 0 | 0 | 0 | 1.134 | 10.75 | 1193 | 10.74 | 1194 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 12.92 | 2446 | 12.64 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 12.18 | 1869 | 11.84 | 1922 |
| 30 | 0 | 0 | 0 | 1.134 | 12.99 | 1753 | 12.66 | 1799 |
| 40 | 0 | 0 | 0 | 1.134 | 13.25 | 1719 | 12.92 | 1763 |
| 50 | 0 | 0 | 0 | 1.134 | 13.51 | 1687 | 13.17 | 1729 |
| 60 | 0 | 0 | 0 | 1.134 | 13.76 | 1656 | 13.43 | 1697 |
| 70 | 0 | 0 | 0 | 1.134 | 14.01 | 1627 | 13.67 | 1666 |
| 80 | 0 | 0 | 0 | 1.134 | 14.25 | 1600 | 13.92 | 1637 |
| 90 | 0 | 0 | 0 | 1.134 | 14.49 | 1573 | 14.16 | 1610 |
| 100 | 0 | 0 | 0 | 1.134 | 14.73 | 1548 | 14.4 | 1583 |
| 110 | 0 | 0 | 0 | 1.134 | 14.96 | 1525 | 14.63 | 1558 |
| 120 | 0 | 0 | 0 | 1.134 | 15.19 | 1502 | 14.86 | 1535 |
| 130 | 0 | 0 | 0 | 1.134 | 15.41 | 1480 | 15.09 | 1512 |
| 167 | 0 | 0 | 0 | 1.134 | 16.23 | 1407 | 15.9 | 1435 |
| 212 | 0 | 0 | 0 | 1.134 | 16.81 | 1359 | 16.8 | 1359 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 20.1 | 2462 | 19.79 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 19.35 | 1842 | 18.99 | 1877 |
| 30 | 0 | 0 | 0 | 1.134 | 20.17 | 1768 | 19.81 | 1800 |
| 40 | 0 | 0 | 0 | 1.134 | 20.44 | 1745 | 20.08 | 1776 |
| 50 | 0 | 0 | 0 | 1.134 | 20.7 | 1723 | 20.34 | 1754 |
| 60 | 0 | 0 | 0 | 1.134 | 20.96 | 1702 | 20.6 | 1732 |
| 70 | 0 | 0 | 0 | 1.134 | 21.22 | 1682 | 20.86 | 1711 |
| 80 | 0 | 0 | 0 | 1.134 | 21.48 | 1662 | 21.11 | 1690 |
| 90 | 0 | 0 | 0 | 1.134 | 21.73 | 1643 | 21.36 | 1671 |
| 100 | 0 | 0 | 0 | 1.134 | 21.98 | 1625 | 21.61 | 1652 |
| 110 | 0 | 0 | 0 | 1.134 | 22.22 | 1607 | 21.86 | 1634 |
| 120 | 0 | 0 | 0 | 1.134 | 22.47 | 1590 | 22.1 | 1616 |
| 130 | 0 | 0 | 0 | 1.134 | 22.71 | 1573 | 22.35 | 1599 |
| 167 | 0 | 0 | 0 | 1.134 | 23.58 | 1516 | 23.22 | 1539 |
| 212 | 0 | 0 | 0 | 1.134 | 24.31 | 1471 | 24.24 | 1476 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 100.00 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 125.00 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 |
| 150.00 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 |
| 175.00 | 2-0 | 2-5 | 2-11 | 3-5 | 3-10 | 4-3 | 4-8 | 5-1 | 5-5 | 5-9 |
| 200.00 | 2-7 | 3-2 | 3-10 | 4-5 | 5-0 | 5-7 | 6-1 | 6-8 | 7-1 | 7-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 |
| 150.00 | 1-6 | 1-11 | 2-3 | 2-7 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-5 |
| 175.00 | 2-1 | 2-7 | 3-1 | 3-7 | 4-0 | 4-6 | 4-11 | 5-3 | 5-7 | 6-0 |
| 200.00 | 2-8 | 3-4 | 4-0 | 4-8 | 5-3 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 |
| 150.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 |
| 175.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 |
| 200.00 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 |
| 225.00 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-0 |
| 250.00 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-3 | 6-7 | 6-11 | 7-2 | 7-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 150.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-9 |
| 200.00 | 3-2 | 3-4 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 225.00 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-0 | 6-3 |
| 250.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-5 | 7-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 |
| 175.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 200.00 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 |
| 225.00 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 |
| 250.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 |
| 275.00 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 |
| 300.00 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 |
| 325.00 | 8-1 | 8-4 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 |
| 350.00 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 | 11-7 | 11-11 | 12-2 |
| 375.00 | 10-9 | 11-1 | 11-6 | 11-11 | 12-3 | 12-8 | 13-0 | 13-4 | 13-8 | 14-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 |
| 175.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 200.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 225.00 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 |
| 250.00 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 |
| 275.00 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 |
| 300.00 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 |
| 325.00 | 8-5 | 8-8 | 9-0 | 9-3 | 9-6 | 9-10 | 10-1 | 10-4 | 10-7 | 10-10 |
| 350.00 | 9-9 | 10-1 | 10-5 | 10-9 | 11-1 | 11-5 | 11-8 | 12-0 | 12-3 | 12-7 |
| 375.00 | 11-2 | 11-7 | 11-11 | 12-4 | 12-8 | 13-1 | 13-5 | 13-9 | 14-1 | 14-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 |
| 225.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 |
| 250.00 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-9 |
| 275.00 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 |
| 300.00 | 7-0 | 7-1 | 7-3 | 7-5 | 7-7 | 7-8 | 7-10 | 8-0 | 8-1 | 8-3 |
| 325.00 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 |
| 350.00 | 9-6 | 9-8 | 9-11 | 10-1 | 10-3 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 |
| 375.00 | 10-11 | 11-1 | 11-4 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-8 | 12-10 |
| 400.00 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-11 | 14-2 | 14-5 | 14-8 |
| 425.00 | 14-0 | 14-3 | 14-7 | 14-11 | 15-2 | 15-5 | 15-9 | 16-0 | 16-3 | 16-6 |
| 450.00 | 15-8 | 16-0 | 16-4 | 16-8 | 17-0 | 17-4 | 17-7 | 17-11 | 18-3 | 18-6 |
| 475.00 | 17-6 | 17-10 | 18-3 | 18-7 | 18-11 | 19-4 | 19-8 | 20-0 | 20-4 | 20-8 |
| 500.00 | 19-4 | 19-9 | 20-2 | 20-7 | 21-0 | 21-5 | 21-9 | 22-2 | 22-6 | 22-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 |
| 225.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 250.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 275.00 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 |
| 300.00 | 7-2 | 7-4 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 |
| 325.00 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 |
| 350.00 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 |
| 375.00 | 11-2 | 11-5 | 11-8 | 11-10 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 | 13-2 |
| 400.00 | 12-9 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 |
| 425.00 | 14-4 | 14-8 | 15-0 | 15-3 | 15-6 | 15-10 | 16-1 | 16-4 | 16-8 | 16-11 |
| 450.00 | 16-1 | 16-5 | 16-9 | 17-1 | 17-5 | 17-9 | 18-1 | 18-4 | 18-8 | 18-11 |
| 475.00 | 17-11 | 18-4 | 18-8 | 19-1 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 |
| 500.00 | 19-11 | 20-4 | 20-9 | 21-1 | 21-6 | 21-11 | 22-3 | 22-8 | 23-0 | 23-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 |
| 275.00 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 |
| 300.00 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 325.00 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-3 |
| 350.00 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-5 | 10-7 | 10-8 |
| 375.00 | 11-0 | 11-2 | 11-3 | 11-5 | 11-7 | 11-9 | 11-10 | 12-0 | 12-2 | 12-3 |
| 400.00 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 |
| 425.00 | 14-1 | 14-4 | 14-6 | 14-8 | 14-10 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 |
| 450.00 | 15-10 | 16-0 | 16-3 | 16-6 | 16-8 | 16-11 | 17-1 | 17-4 | 17-6 | 17-8 |
| 475.00 | 17-8 | 17-11 | 18-1 | 18-4 | 18-7 | 18-10 | 19-1 | 19-3 | 19-6 | 19-9 |
| 500.00 | 19-6 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-4 | 21-7 | 21-10 |
| 525.00 | 21-7 | 21-10 | 22-2 | 22-5 | 22-9 | 23-0 | 23-3 | 23-7 | 23-10 | 24-1 |
| 550.00 | 23-8 | 24-0 | 24-4 | 24-7 | 24-11 | 25-3 | 25-7 | 25-10 | 26-2 | 26-6 |
| 575.00 | 25-10 | 26-3 | 26-7 | 26-11 | 27-3 | 27-7 | 27-11 | 28-3 | 28-7 | 28-11 |
| 600.00 | 28-2 | 28-7 | 28-11 | 29-4 | 29-8 | 30-1 | 30-5 | 30-10 | 31-2 | 31-6 |
| 625.00 | 30-7 | 31-0 | 31-5 | 31-10 | 32-3 | 32-8 | 33-0 | 33-5 | 33-10 | 34-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 |
| 275.00 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 |
| 300.00 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 325.00 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-5 |
| 350.00 | 9-9 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 |
| 375.00 | 11-2 | 11-4 | 11-6 | 11-8 | 11-9 | 11-11 | 12-1 | 12-2 | 12-4 | 12-6 |
| 400.00 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 |
| 425.00 | 14-4 | 14-7 | 14-9 | 14-11 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-1 |
| 450.00 | 16-1 | 16-4 | 16-7 | 16-9 | 17-0 | 17-2 | 17-5 | 17-7 | 17-10 | 18-0 |
| 475.00 | 18-0 | 18-2 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-7 | 19-10 | 20-1 |
| 500.00 | 19-11 | 20-2 | 20-5 | 20-8 | 21-0 | 21-3 | 21-6 | 21-9 | 22-0 | 22-3 |
| 525.00 | 21-11 | 22-3 | 22-6 | 22-10 | 23-1 | 23-5 | 23-8 | 24-0 | 24-3 | 24-6 |
| 550.00 | 24-1 | 24-5 | 24-9 | 25-1 | 25-5 | 25-8 | 26-0 | 26-4 | 26-7 | 26-11 |
| 575.00 | 26-4 | 26-8 | 27-1 | 27-5 | 27-9 | 28-1 | 28-5 | 28-9 | 29-1 | 29-5 |
| 600.00 | 28-8 | 29-1 | 29-6 | 29-10 | 30-3 | 30-7 | 30-11 | 31-4 | 31-8 | 32-0 |
| 625.00 | 31-2 | 31-7 | 32-0 | 32-5 | 32-10 | 33-2 | 33-7 | 34-0 | 34-5 | 34-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 0.67 | 2942 | 0.66 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 0.36 | 3947 | 0.36 | 3947 |
| 30 | 0 | 0 | 0 | 1.134 | 0.69 | 2054 | 0.64 | 2220 |
| 40 | 0 | 0 | 0 | 1.134 | 0.86 | 1656 | 0.78 | 1815 |
| 50 | 0 | 0 | 0 | 1.134 | 1.02 | 1385 | 0.94 | 1515 |
| 60 | 0 | 0 | 0 | 1.134 | 1.18 | 1197 | 1.09 | 1300 |
| 70 | 0 | 0 | 0 | 1.134 | 1.33 | 1063 | 1.24 | 1143 |
| 80 | 0 | 0 | 0 | 1.134 | 1.48 | 962 | 1.38 | 1026 |
| 90 | 0 | 0 | 0 | 1.134 | 1.61 | 883 | 1.52 | 936 |
| 100 | 0 | 0 | 0 | 1.134 | 1.73 | 820 | 1.64 | 864 |
| 110 | 0 | 0 | 0 | 1.134 | 1.85 | 769 | 1.76 | 806 |
| 120 | 0 | 0 | 0 | 1.134 | 1.92 | 739 | 1.87 | 758 |
| 130 | 0 | 0 | 0 | 1.134 | 1.98 | 719 | 1.97 | 721 |
| 167 | 0 | 0 | 0 | 1.134 | 2.18 | 652 | 2.17 | 655 |
| 212 | 0 | 0 | 0 | 1.134 | 2.41 | 590 | 2.4 | 593 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 2.82 | 2796 | 2.62 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 2.07 | 2738 | 1.87 | 3035 |
| 30 | 0 | 0 | 0 | 1.134 | 2.86 | 1983 | 2.59 | 2188 |
| 40 | 0 | 0 | 0 | 1.134 | 3.11 | 1826 | 2.84 | 2001 |
| 50 | 0 | 0 | 0 | 1.134 | 3.34 | 1697 | 3.07 | 1848 |
| 60 | 0 | 0 | 0 | 1.134 | 3.57 | 1590 | 3.3 | 1720 |
| 70 | 0 | 0 | 0 | 1.134 | 3.79 | 1499 | 3.52 | 1613 |
| 80 | 0 | 0 | 0 | 1.134 | 4 | 1421 | 3.73 | 1521 |
| 90 | 0 | 0 | 0 | 1.134 | 4.2 | 1353 | 3.94 | 1443 |
| 100 | 0 | 0 | 0 | 1.134 | 4.39 | 1294 | 4.13 | 1374 |
| 110 | 0 | 0 | 0 | 1.134 | 4.58 | 1242 | 4.32 | 1314 |
| 120 | 0 | 0 | 0 | 1.134 | 4.76 | 1195 | 4.51 | 1260 |
| 130 | 0 | 0 | 0 | 1.134 | 4.93 | 1153 | 4.69 | 1212 |
| 167 | 0 | 0 | 0 | 1.134 | 5.34 | 1066 | 5.3 | 1072 |
| 212 | 0 | 0 | 0 | 1.134 | 5.71 | 996 | 5.7 | 998 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 6.24 | 2842 | 5.91 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 5.39 | 2371 | 4.98 | 2566 |
| 30 | 0 | 0 | 0 | 1.134 | 6.29 | 2033 | 5.87 | 2175 |
| 40 | 0 | 0 | 0 | 1.134 | 6.57 | 1946 | 6.16 | 2076 |
| 50 | 0 | 0 | 0 | 1.134 | 6.84 | 1869 | 6.43 | 1987 |
| 60 | 0 | 0 | 0 | 1.134 | 7.1 | 1800 | 6.7 | 1908 |
| 70 | 0 | 0 | 0 | 1.134 | 7.36 | 1737 | 6.96 | 1837 |
| 80 | 0 | 0 | 0 | 1.134 | 7.61 | 1680 | 7.22 | 1772 |
| 90 | 0 | 0 | 0 | 1.134 | 7.85 | 1629 | 7.46 | 1714 |
| 100 | 0 | 0 | 0 | 1.134 | 8.09 | 1581 | 7.7 | 1660 |
| 110 | 0 | 0 | 0 | 1.134 | 8.32 | 1538 | 7.94 | 1611 |
| 120 | 0 | 0 | 0 | 1.134 | 8.55 | 1497 | 8.17 | 1566 |
| 130 | 0 | 0 | 0 | 1.134 | 8.77 | 1460 | 8.39 | 1525 |
| 167 | 0 | 0 | 0 | 1.134 | 9.49 | 1350 | 9.18 | 1394 |
| 212 | 0 | 0 | 0 | 1.134 | 9.98 | 1284 | 9.97 | 1286 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 10.94 | 2886 | 10.52 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 10.04 | 2265 | 9.53 | 2385 |
| 30 | 0 | 0 | 0 | 1.134 | 10.98 | 2071 | 10.48 | 2170 |
| 40 | 0 | 0 | 0 | 1.134 | 11.28 | 2017 | 10.78 | 2110 |
| 50 | 0 | 0 | 0 | 1.134 | 11.57 | 1966 | 11.08 | 2053 |
| 60 | 0 | 0 | 0 | 1.134 | 11.86 | 1919 | 11.37 | 2001 |
| 70 | 0 | 0 | 0 | 1.134 | 12.14 | 1875 | 11.65 | 1953 |
| 80 | 0 | 0 | 0 | 1.134 | 12.42 | 1833 | 11.93 | 1908 |
| 90 | 0 | 0 | 0 | 1.134 | 12.69 | 1795 | 12.21 | 1865 |
| 100 | 0 | 0 | 0 | 1.134 | 12.95 | 1758 | 12.47 | 1825 |
| 110 | 0 | 0 | 0 | 1.134 | 13.22 | 1724 | 12.74 | 1788 |
| 120 | 0 | 0 | 0 | 1.134 | 13.47 | 1691 | 13 | 1752 |
| 130 | 0 | 0 | 0 | 1.134 | 13.72 | 1660 | 13.25 | 1719 |
| 167 | 0 | 0 | 0 | 1.134 | 14.62 | 1559 | 14.16 | 1610 |
| 212 | 0 | 0 | 0 | 1.134 | 15.3 | 1491 | 15.2 | 1501 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.573 | 16.93 | 2917 | 16.46 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 16.01 | 2222 | 15.45 | 2302 |
| 30 | 0 | 0 | 0 | 1.134 | 16.98 | 2097 | 16.42 | 2167 |
| 40 | 0 | 0 | 0 | 1.134 | 17.29 | 2060 | 16.73 | 2127 |
| 50 | 0 | 0 | 0 | 1.134 | 17.59 | 2024 | 17.04 | 2089 |
| 60 | 0 | 0 | 0 | 1.134 | 17.89 | 1991 | 17.34 | 2053 |
| 70 | 0 | 0 | 0 | 1.134 | 18.19 | 1958 | 17.64 | 2019 |
| 80 | 0 | 0 | 0 | 1.134 | 18.48 | 1928 | 17.94 | 1986 |
| 90 | 0 | 0 | 0 | 1.134 | 18.77 | 1898 | 18.23 | 1955 |
| 100 | 0 | 0 | 0 | 1.134 | 19.06 | 1870 | 18.51 | 1925 |
| 110 | 0 | 0 | 0 | 1.134 | 19.34 | 1844 | 18.8 | 1896 |
| 120 | 0 | 0 | 0 | 1.134 | 19.61 | 1818 | 19.07 | 1869 |
| 130 | 0 | 0 | 0 | 1.134 | 19.89 | 1793 | 19.35 | 1842 |
| 167 | 0 | 0 | 0 | 1.134 | 20.87 | 1710 | 20.34 | 1754 |
| 212 | 0 | 0 | 0 | 1.134 | 21.76 | 1641 | 21.49 | 1662 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 125.00 | 0-10 | 1-0 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 |
| 150.00 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 |
| 175.00 | 1-7 | 1-11 | 2-5 | 2-10 | 3-4 | 3-10 | 4-3 | 4-8 | 5-0 | 5-5 |
| 200.00 | 2-1 | 2-7 | 3-2 | 3-9 | 4-4 | 5-0 | 5-6 | 6-1 | 6-7 | 7-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 |
| 125.00 | 0-10 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 | 2-6 | 2-8 | 2-11 |
| 150.00 | 1-3 | 1-7 | 1-11 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 |
| 175.00 | 1-8 | 2-1 | 2-7 | 3-2 | 3-8 | 4-1 | 4-6 | 4-11 | 5-4 | 5-8 |
| 200.00 | 2-2 | 2-9 | 3-5 | 4-1 | 4-9 | 5-4 | 5-11 | 6-5 | 6-11 | 7-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 150.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 175.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 200.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 |
| 225.00 | 3-0 | 3-3 | 3-7 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 | 5-3 | 5-6 |
| 250.00 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 125.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 |
| 150.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 |
| 175.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 |
| 200.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 |
| 225.00 | 3-4 | 3-7 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 |
| 250.00 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 |
| 225.00 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-6 |
| 250.00 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 |
| 275.00 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 |
| 300.00 | 5-7 | 5-10 | 6-2 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 |
| 325.00 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 | 8-2 | 8-6 | 8-9 | 9-1 | 9-4 |
| 350.00 | 7-7 | 8-0 | 8-5 | 8-9 | 9-1 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 |
| 375.00 | 8-9 | 9-2 | 9-7 | 10-1 | 10-6 | 10-11 | 11-3 | 11-8 | 12-1 | 12-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 |
| 175.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200.00 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 |
| 225.00 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 | 4-8 |
| 250.00 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 |
| 275.00 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-10 | 7-0 |
| 300.00 | 6-0 | 6-3 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 |
| 325.00 | 7-0 | 7-5 | 7-9 | 8-0 | 8-4 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 |
| 350.00 | 8-2 | 8-7 | 8-11 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 |
| 375.00 | 9-4 | 9-10 | 10-3 | 10-8 | 11-1 | 11-6 | 11-11 | 12-3 | 12-8 | 13-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 |
| 225.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 250.00 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 |
| 275.00 | 4-10 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 |
| 300.00 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-2 |
| 325.00 | 6-9 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-10 | 8-1 | 8-3 | 8-5 |
| 350.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 |
| 375.00 | 8-11 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 | 11-2 |
| 400.00 | 10-2 | 10-6 | 10-9 | 11-1 | 11-4 | 11-8 | 11-11 | 12-2 | 12-6 | 12-9 |
| 425.00 | 11-6 | 11-10 | 12-2 | 12-6 | 12-10 | 13-2 | 13-6 | 13-9 | 14-1 | 14-5 |
| 450.00 | 12-11 | 13-3 | 13-8 | 14-0 | 14-5 | 14-9 | 15-1 | 15-5 | 15-10 | 16-2 |
| 475.00 | 14-4 | 14-9 | 15-3 | 15-8 | 16-0 | 16-5 | 16-10 | 17-3 | 17-7 | 18-0 |
| 500.00 | 15-11 | 16-5 | 16-10 | 17-4 | 17-9 | 18-3 | 18-8 | 19-1 | 19-6 | 19-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 250.00 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-1 | 5-2 |
| 275.00 | 5-1 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 |
| 300.00 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 |
| 325.00 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-7 | 8-9 |
| 350.00 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 |
| 375.00 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 | 11-5 | 11-7 |
| 400.00 | 10-8 | 11-0 | 11-3 | 11-7 | 11-10 | 12-2 | 12-5 | 12-8 | 12-11 | 13-3 |
| 425.00 | 12-1 | 12-5 | 12-9 | 13-1 | 13-5 | 13-9 | 14-0 | 14-4 | 14-8 | 14-11 |
| 450.00 | 13-6 | 13-11 | 14-3 | 14-8 | 15-0 | 15-4 | 15-9 | 16-1 | 16-5 | 16-9 |
| 475.00 | 15-1 | 15-6 | 15-11 | 16-4 | 16-9 | 17-2 | 17-6 | 17-11 | 18-3 | 18-8 |
| 500.00 | 16-8 | 17-2 | 17-8 | 18-1 | 18-7 | 19-0 | 19-5 | 19-10 | 20-3 | 20-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 |
| 275.00 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 300.00 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 |
| 325.00 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 |
| 350.00 | 7-11 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-2 |
| 375.00 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 |
| 400.00 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 | 11-6 | 11-8 | 11-10 | 12-0 |
| 425.00 | 11-8 | 11-10 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 | 13-2 | 13-4 | 13-7 |
| 450.00 | 13-0 | 13-4 | 13-7 | 13-10 | 14-1 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 |
| 475.00 | 14-6 | 14-10 | 15-1 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 17-0 |
| 500.00 | 16-1 | 16-5 | 16-9 | 17-0 | 17-4 | 17-8 | 17-11 | 18-3 | 18-6 | 18-10 |
| 525.00 | 17-9 | 18-1 | 18-5 | 18-9 | 19-2 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 |
| 550.00 | 19-6 | 19-11 | 20-3 | 20-8 | 21-0 | 21-4 | 21-9 | 22-1 | 22-5 | 22-9 |
| 575.00 | 21-4 | 21-9 | 22-2 | 22-7 | 22-11 | 23-4 | 23-9 | 24-1 | 24-6 | 24-10 |
| 600.00 | 23-2 | 23-8 | 24-1 | 24-7 | 25-0 | 25-5 | 25-10 | 26-3 | 26-8 | 27-1 |
| 625.00 | 25-2 | 25-8 | 26-2 | 26-8 | 27-2 | 27-7 | 28-1 | 28-6 | 28-11 | 29-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 |
| 275.00 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 300.00 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 |
| 325.00 | 7-0 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 |
| 350.00 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 |
| 375.00 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-10 |
| 400.00 | 10-8 | 10-10 | 11-1 | 11-3 | 11-5 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 |
| 425.00 | 12-0 | 12-3 | 12-6 | 12-8 | 12-11 | 13-2 | 13-4 | 13-7 | 13-9 | 14-0 |
| 450.00 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 | 15-2 | 15-5 | 15-8 |
| 475.00 | 15-0 | 15-4 | 15-7 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 | 17-5 |
| 500.00 | 16-8 | 17-0 | 17-3 | 17-7 | 17-11 | 18-2 | 18-6 | 18-9 | 19-1 | 19-4 |
| 525.00 | 18-4 | 18-9 | 19-1 | 19-5 | 19-9 | 20-1 | 20-5 | 20-8 | 21-0 | 21-4 |
| 550.00 | 20-2 | 20-7 | 20-11 | 21-4 | 21-8 | 22-0 | 22-4 | 22-9 | 23-1 | 23-5 |
| 575.00 | 22-1 | 22-6 | 22-10 | 23-3 | 23-8 | 24-1 | 24-5 | 24-10 | 25-3 | 25-7 |
| 600.00 | 24-0 | 24-6 | 24-11 | 25-4 | 25-9 | 26-3 | 26-8 | 27-1 | 27-6 | 27-10 |
| 625.00 | 26-1 | 26-7 | 27-0 | 27-6 | 28-0 | 28-5 | 28-11 | 29-4 | 29-10 | 30-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 2.74 | 1000 | 2.74 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 2.45 | 581 | 2.44 | 582 |
| 30 | 0 | 0 | 0 | 1.134 | 2.53 | 561 | 2.53 | 563 |
| 40 | 0 | 0 | 0 | 1.134 | 2.62 | 543 | 2.61 | 545 |
| 50 | 0 | 0 | 0 | 1.134 | 2.7 | 527 | 2.69 | 528 |
| 60 | 0 | 0 | 0 | 1.134 | 2.78 | 512 | 2.77 | 513 |
| 70 | 0 | 0 | 0 | 1.134 | 2.86 | 498 | 2.85 | 499 |
| 80 | 0 | 0 | 0 | 1.134 | 2.93 | 485 | 2.92 | 487 |
| 90 | 0 | 0 | 0 | 1.134 | 3 | 474 | 3 | 475 |
| 100 | 0 | 0 | 0 | 1.134 | 3.05 | 466 | 3.05 | 466 |
| 110 | 0 | 0 | 0 | 1.134 | 3.09 | 460 | 3.09 | 460 |
| 120 | 0 | 0 | 0 | 1.134 | 3.13 | 454 | 3.13 | 454 |
| 130 | 0 | 0 | 0 | 1.134 | 3.17 | 449 | 3.17 | 449 |
| 167 | 0 | 0 | 0 | 1.134 | 3.32 | 429 | 3.32 | 429 |
| 212 | 0 | 0 | 0 | 1.134 | 3.49 | 408 | 3.49 | 408 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 11.06 | 1000 | 11.06 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 10.78 | 532 | 10.77 | 533 |
| 30 | 0 | 0 | 0 | 1.134 | 10.86 | 528 | 10.85 | 529 |
| 40 | 0 | 0 | 0 | 1.134 | 10.94 | 524 | 10.93 | 525 |
| 50 | 0 | 0 | 0 | 1.134 | 11.02 | 521 | 11.01 | 521 |
| 60 | 0 | 0 | 0 | 1.134 | 11.1 | 517 | 11.09 | 517 |
| 70 | 0 | 0 | 0 | 1.134 | 11.18 | 513 | 11.17 | 514 |
| 80 | 0 | 0 | 0 | 1.134 | 11.26 | 510 | 11.25 | 510 |
| 90 | 0 | 0 | 0 | 1.134 | 11.34 | 506 | 11.33 | 507 |
| 100 | 0 | 0 | 0 | 1.134 | 11.4 | 504 | 11.4 | 504 |
| 110 | 0 | 0 | 0 | 1.134 | 11.45 | 502 | 11.45 | 502 |
| 120 | 0 | 0 | 0 | 1.134 | 11.5 | 500 | 11.5 | 500 |
| 130 | 0 | 0 | 0 | 1.134 | 11.54 | 498 | 11.54 | 498 |
| 167 | 0 | 0 | 0 | 1.134 | 11.71 | 491 | 11.71 | 491 |
| 212 | 0 | 0 | 0 | 1.134 | 11.92 | 483 | 11.92 | 483 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 25.29 | 1000 | 25.29 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 25.01 | 524 | 25 | 525 |
| 30 | 0 | 0 | 0 | 1.134 | 25.09 | 523 | 25.08 | 523 |
| 40 | 0 | 0 | 0 | 1.134 | 25.17 | 521 | 25.16 | 521 |
| 50 | 0 | 0 | 0 | 1.134 | 25.25 | 520 | 25.24 | 520 |
| 60 | 0 | 0 | 0 | 1.134 | 25.33 | 518 | 25.32 | 518 |
| 70 | 0 | 0 | 0 | 1.134 | 25.41 | 517 | 25.4 | 517 |
| 80 | 0 | 0 | 0 | 1.134 | 25.49 | 515 | 25.48 | 515 |
| 90 | 0 | 0 | 0 | 1.134 | 25.57 | 513 | 25.56 | 514 |
| 100 | 0 | 0 | 0 | 1.134 | 25.64 | 512 | 25.64 | 512 |
| 110 | 0 | 0 | 0 | 1.134 | 25.69 | 511 | 25.69 | 511 |
| 120 | 0 | 0 | 0 | 1.134 | 25.73 | 510 | 25.73 | 510 |
| 130 | 0 | 0 | 0 | 1.134 | 25.78 | 509 | 25.78 | 509 |
| 167 | 0 | 0 | 0 | 1.134 | 25.96 | 506 | 25.96 | 506 |
| 212 | 0 | 0 | 0 | 1.134 | 26.17 | 502 | 26.17 | 502 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 46.04 | 1000 | 46.04 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 45.76 | 522 | 45.75 | 522 |
| 30 | 0 | 0 | 0 | 1.134 | 45.84 | 521 | 45.83 | 521 |
| 40 | 0 | 0 | 0 | 1.134 | 45.92 | 520 | 45.91 | 520 |
| 50 | 0 | 0 | 0 | 1.134 | 46 | 519 | 45.99 | 519 |
| 60 | 0 | 0 | 0 | 1.134 | 46.08 | 518 | 46.07 | 519 |
| 70 | 0 | 0 | 0 | 1.134 | 46.16 | 518 | 46.15 | 518 |
| 80 | 0 | 0 | 0 | 1.134 | 46.24 | 517 | 46.23 | 517 |
| 90 | 0 | 0 | 0 | 1.134 | 46.32 | 516 | 46.31 | 516 |
| 100 | 0 | 0 | 0 | 1.134 | 46.39 | 515 | 46.39 | 515 |
| 110 | 0 | 0 | 0 | 1.134 | 46.44 | 515 | 46.44 | 515 |
| 120 | 0 | 0 | 0 | 1.134 | 46.49 | 514 | 46.49 | 514 |
| 130 | 0 | 0 | 0 | 1.134 | 46.54 | 514 | 46.54 | 514 |
| 167 | 0 | 0 | 0 | 1.134 | 46.71 | 512 | 46.71 | 512 |
| 212 | 0 | 0 | 0 | 1.134 | 46.93 | 510 | 46.93 | 510 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 74.39 | 1000 | 74.39 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 74.11 | 520 | 74.1 | 521 |
| 30 | 0 | 0 | 0 | 1.134 | 74.19 | 520 | 74.18 | 520 |
| 40 | 0 | 0 | 0 | 1.134 | 74.27 | 520 | 74.26 | 520 |
| 50 | 0 | 0 | 0 | 1.134 | 74.35 | 519 | 74.34 | 519 |
| 60 | 0 | 0 | 0 | 1.134 | 74.43 | 519 | 74.42 | 519 |
| 70 | 0 | 0 | 0 | 1.134 | 74.51 | 518 | 74.5 | 518 |
| 80 | 0 | 0 | 0 | 1.134 | 74.59 | 518 | 74.58 | 518 |
| 90 | 0 | 0 | 0 | 1.134 | 74.67 | 517 | 74.66 | 517 |
| 100 | 0 | 0 | 0 | 1.134 | 74.74 | 517 | 74.74 | 517 |
| 110 | 0 | 0 | 0 | 1.134 | 74.79 | 517 | 74.79 | 517 |
| 120 | 0 | 0 | 0 | 1.134 | 74.84 | 516 | 74.84 | 516 |
| 130 | 0 | 0 | 0 | 1.134 | 74.89 | 516 | 74.89 | 516 |
| 167 | 0 | 0 | 0 | 1.134 | 75.07 | 515 | 75.07 | 515 |
| 212 | 0 | 0 | 0 | 1.134 | 75.28 | 514 | 75.28 | 514 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 |
| 100.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 125.00 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 |
| 150.00 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 |
| 175.00 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-2 | 9-4 | 9-6 |
| 200.00 | 9-9 | 10-2 | 10-6 | 10-10 | 11-1 | 11-5 | 11-9 | 12-0 | 12-3 | 12-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 |
| 100.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 125.00 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 150.00 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 |
| 175.00 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-4 | 9-6 |
| 200.00 | 9-10 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-9 | 12-1 | 12-3 | 12-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 |
| 125.00 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 |
| 150.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 |
| 175.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 |
| 200.00 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-5 |
| 225.00 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 |
| 250.00 | 16-10 | 17-0 | 17-1 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 17-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 |
| 125.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 |
| 150.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 |
| 175.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 |
| 200.00 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-5 |
| 225.00 | 13-8 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 |
| 250.00 | 16-11 | 17-0 | 17-2 | 17-3 | 17-5 | 17-6 | 17-8 | 17-9 | 17-10 | 17-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 |
| 175.00 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 |
| 200.00 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 |
| 225.00 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 |
| 250.00 | 17-4 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 |
| 275.00 | 21-0 | 21-1 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-5 | 21-6 | 21-7 |
| 300.00 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-8 |
| 325.00 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 30-1 | 30-2 | 30-2 |
| 350.00 | 34-2 | 34-3 | 34-4 | 34-6 | 34-7 | 34-8 | 34-10 | 34-11 | 35-0 | 35-1 |
| 375.00 | 39-3 | 39-5 | 39-6 | 39-8 | 39-9 | 39-11 | 40-0 | 40-2 | 40-3 | 40-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 6-3 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 |
| 175.00 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 |
| 200.00 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 |
| 225.00 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 |
| 250.00 | 17-4 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 |
| 275.00 | 21-0 | 21-1 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-5 | 21-6 | 21-7 |
| 300.00 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-8 |
| 325.00 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 30-0 | 30-1 | 30-2 | 30-2 |
| 350.00 | 34-2 | 34-3 | 34-4 | 34-6 | 34-7 | 34-8 | 34-10 | 34-11 | 35-0 | 35-1 |
| 375.00 | 39-3 | 39-5 | 39-6 | 39-8 | 39-9 | 39-11 | 40-0 | 40-2 | 40-3 | 40-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-4 | 11-4 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-5 | 11-6 |
| 225.00 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 |
| 250.00 | 17-8 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 |
| 275.00 | 21-5 | 21-6 | 21-6 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 |
| 300.00 | 25-7 | 25-7 | 25-8 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 |
| 325.00 | 30-0 | 30-1 | 30-2 | 30-2 | 30-3 | 30-3 | 30-4 | 30-5 | 30-5 | 30-6 |
| 350.00 | 34-11 | 34-11 | 35-0 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-4 | 35-5 |
| 375.00 | 40-2 | 40-2 | 40-3 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 | 40-8 | 40-9 |
| 400.00 | 45-9 | 45-10 | 45-11 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-5 |
| 425.00 | 51-9 | 51-10 | 51-11 | 52-0 | 52-1 | 52-3 | 52-4 | 52-5 | 52-6 | 52-6 |
| 450.00 | 58-2 | 58-3 | 58-4 | 58-6 | 58-7 | 58-8 | 58-9 | 58-11 | 59-0 | 59-1 |
| 475.00 | 65-0 | 65-1 | 65-2 | 65-4 | 65-5 | 65-6 | 65-8 | 65-9 | 65-11 | 65-11 |
| 500.00 | 72-2 | 72-4 | 72-5 | 72-7 | 72-8 | 72-10 | 72-11 | 73-1 | 73-2 | 73-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-4 | 11-4 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-5 | 11-6 |
| 225.00 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-6 |
| 250.00 | 17-8 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 |
| 275.00 | 21-5 | 21-6 | 21-6 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 |
| 300.00 | 25-7 | 25-7 | 25-8 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 |
| 325.00 | 30-0 | 30-1 | 30-2 | 30-2 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 | 30-6 |
| 350.00 | 34-11 | 34-11 | 35-0 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-4 | 35-5 |
| 375.00 | 40-2 | 40-2 | 40-3 | 40-4 | 40-5 | 40-6 | 40-7 | 40-8 | 40-8 | 40-9 |
| 400.00 | 45-9 | 45-10 | 45-11 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-5 |
| 425.00 | 51-9 | 51-10 | 51-11 | 52-1 | 52-2 | 52-3 | 52-4 | 52-5 | 52-6 | 52-6 |
| 450.00 | 58-2 | 58-3 | 58-5 | 58-6 | 58-7 | 58-8 | 58-9 | 58-11 | 59-0 | 59-1 |
| 475.00 | 65-0 | 65-1 | 65-2 | 65-4 | 65-5 | 65-7 | 65-8 | 65-9 | 65-11 | 65-11 |
| 500.00 | 72-2 | 72-4 | 72-5 | 72-7 | 72-8 | 72-10 | 72-11 | 73-1 | 73-2 | 73-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-2 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 |
| 275.00 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-2 |
| 300.00 | 26-3 | 26-3 | 26-3 | 26-4 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 |
| 325.00 | 30-10 | 30-10 | 30-11 | 30-11 | 30-11 | 31-0 | 31-0 | 31-0 | 31-1 | 31-1 |
| 350.00 | 35-10 | 35-10 | 35-11 | 35-11 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 |
| 375.00 | 41-2 | 41-3 | 41-3 | 41-4 | 41-4 | 41-5 | 41-5 | 41-6 | 41-6 | 41-7 |
| 400.00 | 46-11 | 47-0 | 47-1 | 47-1 | 47-2 | 47-2 | 47-3 | 47-4 | 47-4 | 47-5 |
| 425.00 | 53-2 | 53-2 | 53-3 | 53-4 | 53-4 | 53-5 | 53-6 | 53-6 | 53-7 | 53-7 |
| 450.00 | 59-9 | 59-9 | 59-10 | 59-11 | 60-0 | 60-0 | 60-1 | 60-2 | 60-3 | 60-3 |
| 475.00 | 66-8 | 66-9 | 66-10 | 66-11 | 67-0 | 67-1 | 67-2 | 67-2 | 67-3 | 67-4 |
| 500.00 | 74-1 | 74-2 | 74-3 | 74-4 | 74-5 | 74-6 | 74-7 | 74-8 | 74-9 | 74-9 |
| 525.00 | 81-11 | 82-0 | 82-1 | 82-2 | 82-3 | 82-4 | 82-6 | 82-7 | 82-8 | 82-8 |
| 550.00 | 90-2 | 90-3 | 90-5 | 90-6 | 90-7 | 90-8 | 90-9 | 90-10 | 91-0 | 91-0 |
| 575.00 | 98-11 | 99-0 | 99-1 | 99-2 | 99-4 | 99-5 | 99-6 | 99-8 | 99-9 | 99-10 |
| 600.00 | 108-0 | 108-2 | 108-3 | 108-4 | 108-6 | 108-7 | 108-9 | 108-10 | 108-11 | 109-0 |
| 625.00 | 117-7 | 117-9 | 117-10 | 118-0 | 118-1 | 118-3 | 118-4 | 118-6 | 118-8 | 118-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-2 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 |
| 275.00 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-2 |
| 300.00 | 26-3 | 26-3 | 26-3 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-5 |
| 325.00 | 30-10 | 30-10 | 30-11 | 30-11 | 30-11 | 31-0 | 31-0 | 31-1 | 31-1 | 31-1 |
| 350.00 | 35-10 | 35-10 | 35-11 | 35-11 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 |
| 375.00 | 41-2 | 41-3 | 41-3 | 41-4 | 41-4 | 41-5 | 41-5 | 41-6 | 41-6 | 41-7 |
| 400.00 | 47-0 | 47-0 | 47-1 | 47-1 | 47-2 | 47-3 | 47-3 | 47-4 | 47-4 | 47-5 |
| 425.00 | 53-2 | 53-2 | 53-3 | 53-4 | 53-4 | 53-5 | 53-6 | 53-6 | 53-7 | 53-7 |
| 450.00 | 59-9 | 59-9 | 59-10 | 59-11 | 60-0 | 60-0 | 60-1 | 60-2 | 60-3 | 60-3 |
| 475.00 | 66-8 | 66-9 | 66-10 | 66-11 | 67-0 | 67-1 | 67-2 | 67-2 | 67-3 | 67-4 |
| 500.00 | 74-1 | 74-2 | 74-3 | 74-4 | 74-5 | 74-6 | 74-7 | 74-8 | 74-9 | 74-9 |
| 525.00 | 81-11 | 82-0 | 82-1 | 82-2 | 82-4 | 82-5 | 82-6 | 82-7 | 82-8 | 82-8 |
| 550.00 | 90-2 | 90-4 | 90-5 | 90-6 | 90-7 | 90-8 | 90-9 | 90-11 | 91-0 | 91-0 |
| 575.00 | 98-11 | 99-0 | 99-1 | 99-3 | 99-4 | 99-5 | 99-6 | 99-8 | 99-9 | 99-10 |
| 600.00 | 108-0 | 108-2 | 108-3 | 108-5 | 108-6 | 108-7 | 108-9 | 108-10 | 108-11 | 109-0 |
| 625.00 | 117-7 | 117-9 | 117-10 | 118-0 | 118-2 | 118-3 | 118-5 | 118-6 | 118-8 | 118-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 1.82 | 1500 | 1.82 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 1.34 | 1058 | 1.33 | 1068 |
| 30 | 0 | 0 | 0 | 1.134 | 1.48 | 958 | 1.47 | 968 |
| 40 | 0 | 0 | 0 | 1.134 | 1.61 | 880 | 1.59 | 890 |
| 50 | 0 | 0 | 0 | 1.134 | 1.74 | 818 | 1.72 | 827 |
| 60 | 0 | 0 | 0 | 1.134 | 1.85 | 767 | 1.83 | 775 |
| 70 | 0 | 0 | 0 | 1.134 | 1.96 | 724 | 1.94 | 731 |
| 80 | 0 | 0 | 0 | 1.134 | 2.07 | 687 | 2.05 | 694 |
| 90 | 0 | 0 | 0 | 1.134 | 2.17 | 655 | 2.15 | 662 |
| 100 | 0 | 0 | 0 | 1.134 | 2.26 | 627 | 2.24 | 633 |
| 110 | 0 | 0 | 0 | 1.134 | 2.33 | 608 | 2.33 | 608 |
| 120 | 0 | 0 | 0 | 1.134 | 2.39 | 594 | 2.39 | 594 |
| 130 | 0 | 0 | 0 | 1.134 | 2.44 | 582 | 2.44 | 582 |
| 167 | 0 | 0 | 0 | 1.134 | 2.62 | 543 | 2.62 | 543 |
| 212 | 0 | 0 | 0 | 1.134 | 2.82 | 504 | 2.82 | 504 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 7.32 | 1500 | 7.32 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 6.86 | 830 | 6.84 | 832 |
| 30 | 0 | 0 | 0 | 1.134 | 6.99 | 815 | 6.97 | 817 |
| 40 | 0 | 0 | 0 | 1.134 | 7.11 | 801 | 7.09 | 803 |
| 50 | 0 | 0 | 0 | 1.134 | 7.23 | 788 | 7.21 | 790 |
| 60 | 0 | 0 | 0 | 1.134 | 7.35 | 775 | 7.33 | 777 |
| 70 | 0 | 0 | 0 | 1.134 | 7.47 | 763 | 7.45 | 765 |
| 80 | 0 | 0 | 0 | 1.134 | 7.59 | 752 | 7.57 | 754 |
| 90 | 0 | 0 | 0 | 1.134 | 7.7 | 740 | 7.68 | 743 |
| 100 | 0 | 0 | 0 | 1.134 | 7.82 | 730 | 7.79 | 732 |
| 110 | 0 | 0 | 0 | 1.134 | 7.93 | 720 | 7.9 | 722 |
| 120 | 0 | 0 | 0 | 1.134 | 8.02 | 712 | 8.01 | 712 |
| 130 | 0 | 0 | 0 | 1.134 | 8.1 | 705 | 8.1 | 705 |
| 167 | 0 | 0 | 0 | 1.134 | 8.33 | 685 | 8.33 | 685 |
| 212 | 0 | 0 | 0 | 1.134 | 8.6 | 664 | 8.6 | 664 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 16.59 | 1500 | 16.59 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 16.14 | 800 | 16.12 | 801 |
| 30 | 0 | 0 | 0 | 1.134 | 16.26 | 794 | 16.24 | 795 |
| 40 | 0 | 0 | 0 | 1.134 | 16.38 | 788 | 16.36 | 789 |
| 50 | 0 | 0 | 0 | 1.134 | 16.5 | 782 | 16.48 | 783 |
| 60 | 0 | 0 | 0 | 1.134 | 16.62 | 777 | 16.6 | 778 |
| 70 | 0 | 0 | 0 | 1.134 | 16.74 | 772 | 16.72 | 772 |
| 80 | 0 | 0 | 0 | 1.134 | 16.86 | 766 | 16.84 | 767 |
| 90 | 0 | 0 | 0 | 1.134 | 16.98 | 761 | 16.96 | 762 |
| 100 | 0 | 0 | 0 | 1.134 | 17.1 | 756 | 17.07 | 757 |
| 110 | 0 | 0 | 0 | 1.134 | 17.21 | 751 | 17.19 | 752 |
| 120 | 0 | 0 | 0 | 1.134 | 17.32 | 746 | 17.3 | 747 |
| 130 | 0 | 0 | 0 | 1.134 | 17.41 | 742 | 17.41 | 742 |
| 167 | 0 | 0 | 0 | 1.134 | 17.67 | 732 | 17.67 | 732 |
| 212 | 0 | 0 | 0 | 1.134 | 17.97 | 720 | 17.97 | 720 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 29.79 | 1500 | 29.79 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 29.33 | 790 | 29.32 | 790 |
| 30 | 0 | 0 | 0 | 1.134 | 29.46 | 787 | 29.44 | 787 |
| 40 | 0 | 0 | 0 | 1.134 | 29.58 | 784 | 29.56 | 784 |
| 50 | 0 | 0 | 0 | 1.134 | 29.7 | 781 | 29.68 | 781 |
| 60 | 0 | 0 | 0 | 1.134 | 29.82 | 778 | 29.8 | 778 |
| 70 | 0 | 0 | 0 | 1.134 | 29.94 | 775 | 29.92 | 775 |
| 80 | 0 | 0 | 0 | 1.134 | 30.06 | 772 | 30.04 | 772 |
| 90 | 0 | 0 | 0 | 1.134 | 30.18 | 769 | 30.15 | 769 |
| 100 | 0 | 0 | 0 | 1.134 | 30.3 | 766 | 30.27 | 766 |
| 110 | 0 | 0 | 0 | 1.134 | 30.42 | 763 | 30.39 | 764 |
| 120 | 0 | 0 | 0 | 1.134 | 30.53 | 760 | 30.51 | 761 |
| 130 | 0 | 0 | 0 | 1.134 | 30.62 | 758 | 30.62 | 758 |
| 167 | 0 | 0 | 0 | 1.134 | 30.89 | 752 | 30.89 | 752 |
| 212 | 0 | 0 | 0 | 1.134 | 31.21 | 745 | 31.21 | 745 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 47.16 | 1500 | 47.16 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 46.71 | 785 | 46.69 | 786 |
| 30 | 0 | 0 | 0 | 1.134 | 46.83 | 783 | 46.81 | 784 |
| 40 | 0 | 0 | 0 | 1.134 | 46.95 | 782 | 46.93 | 782 |
| 50 | 0 | 0 | 0 | 1.134 | 47.07 | 780 | 47.05 | 780 |
| 60 | 0 | 0 | 0 | 1.134 | 47.19 | 778 | 47.17 | 778 |
| 70 | 0 | 0 | 0 | 1.134 | 47.31 | 776 | 47.29 | 776 |
| 80 | 0 | 0 | 0 | 1.134 | 47.43 | 774 | 47.41 | 774 |
| 90 | 0 | 0 | 0 | 1.134 | 47.55 | 772 | 47.53 | 773 |
| 100 | 0 | 0 | 0 | 1.134 | 47.67 | 771 | 47.64 | 771 |
| 110 | 0 | 0 | 0 | 1.134 | 47.79 | 769 | 47.76 | 769 |
| 120 | 0 | 0 | 0 | 1.134 | 47.91 | 767 | 47.88 | 767 |
| 130 | 0 | 0 | 0 | 1.134 | 48 | 766 | 48 | 766 |
| 167 | 0 | 0 | 0 | 1.134 | 48.27 | 762 | 48.27 | 762 |
| 212 | 0 | 0 | 0 | 1.134 | 48.6 | 757 | 48.6 | 757 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 100.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 |
| 125.00 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 150.00 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 |
| 175.00 | 4-1 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 |
| 200.00 | 5-4 | 5-10 | 6-5 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 |
| 100.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 125.00 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 |
| 150.00 | 3-0 | 3-4 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-3 |
| 175.00 | 4-1 | 4-6 | 4-11 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 | 7-2 |
| 200.00 | 5-4 | 5-11 | 6-5 | 6-11 | 7-5 | 7-10 | 8-3 | 8-8 | 9-1 | 9-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 |
| 125.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 |
| 150.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 |
| 175.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 |
| 200.00 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 |
| 225.00 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 |
| 250.00 | 10-8 | 10-11 | 11-1 | 11-3 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 |
| 125.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 150.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 |
| 175.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 200.00 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 |
| 225.00 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 |
| 250.00 | 10-9 | 10-11 | 11-1 | 11-4 | 11-6 | 11-8 | 11-10 | 12-1 | 12-3 | 12-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 |
| 175.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 |
| 200.00 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 |
| 225.00 | 9-1 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-8 |
| 250.00 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 |
| 275.00 | 13-6 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-5 |
| 300.00 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-1 | 17-2 |
| 325.00 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 | 19-8 | 19-9 | 19-11 | 20-1 | 20-2 |
| 350.00 | 22-0 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 22-11 | 23-1 | 23-3 | 23-5 |
| 375.00 | 25-3 | 25-5 | 25-7 | 25-10 | 26-0 | 26-2 | 26-4 | 26-7 | 26-9 | 26-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 |
| 175.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 |
| 200.00 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 |
| 225.00 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 |
| 250.00 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 |
| 275.00 | 13-7 | 13-8 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 |
| 300.00 | 16-2 | 16-3 | 16-5 | 16-6 | 16-7 | 16-9 | 16-10 | 17-0 | 17-1 | 17-3 |
| 325.00 | 18-11 | 19-1 | 19-3 | 19-5 | 19-6 | 19-8 | 19-10 | 19-11 | 20-1 | 20-3 |
| 350.00 | 22-0 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 |
| 375.00 | 25-3 | 25-6 | 25-8 | 25-10 | 26-0 | 26-3 | 26-5 | 26-7 | 26-9 | 27-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 |
| 225.00 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 |
| 250.00 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 |
| 275.00 | 13-10 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 |
| 300.00 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 |
| 325.00 | 19-4 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 |
| 350.00 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-1 | 23-2 | 23-3 |
| 375.00 | 25-9 | 25-10 | 25-11 | 26-1 | 26-2 | 26-3 | 26-5 | 26-6 | 26-7 | 26-8 |
| 400.00 | 29-4 | 29-5 | 29-7 | 29-8 | 29-10 | 29-11 | 30-0 | 30-2 | 30-3 | 30-5 |
| 425.00 | 33-2 | 33-3 | 33-5 | 33-6 | 33-8 | 33-10 | 33-11 | 34-1 | 34-2 | 34-4 |
| 450.00 | 37-2 | 37-4 | 37-6 | 37-8 | 37-9 | 37-11 | 38-1 | 38-3 | 38-5 | 38-6 |
| 475.00 | 41-6 | 41-8 | 41-10 | 42-0 | 42-2 | 42-4 | 42-6 | 42-8 | 42-10 | 43-0 |
| 500.00 | 46-0 | 46-2 | 46-4 | 46-7 | 46-9 | 46-11 | 47-2 | 47-4 | 47-6 | 47-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 |
| 225.00 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-6 | 9-7 |
| 250.00 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 |
| 275.00 | 13-10 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 |
| 300.00 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 |
| 325.00 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 20-0 |
| 350.00 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 |
| 375.00 | 25-9 | 25-10 | 26-0 | 26-1 | 26-2 | 26-3 | 26-5 | 26-6 | 26-7 | 26-8 |
| 400.00 | 29-4 | 29-5 | 29-7 | 29-8 | 29-10 | 29-11 | 30-1 | 30-2 | 30-4 | 30-5 |
| 425.00 | 33-2 | 33-3 | 33-5 | 33-7 | 33-8 | 33-10 | 34-0 | 34-1 | 34-3 | 34-4 |
| 450.00 | 37-2 | 37-4 | 37-6 | 37-8 | 37-10 | 38-0 | 38-1 | 38-3 | 38-5 | 38-7 |
| 475.00 | 41-6 | 41-8 | 41-10 | 42-0 | 42-2 | 42-4 | 42-6 | 42-8 | 42-10 | 43-0 |
| 500.00 | 46-0 | 46-3 | 46-5 | 46-7 | 46-9 | 47-0 | 47-2 | 47-4 | 47-6 | 47-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 |
| 275.00 | 14-0 | 14-1 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 |
| 300.00 | 16-8 | 16-9 | 16-9 | 16-10 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 |
| 325.00 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-1 |
| 350.00 | 22-9 | 22-10 | 22-10 | 22-11 | 23-0 | 23-0 | 23-1 | 23-2 | 23-2 | 23-3 |
| 375.00 | 26-2 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-6 | 26-7 | 26-8 | 26-9 |
| 400.00 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 | 30-3 | 30-4 | 30-5 |
| 425.00 | 33-8 | 33-9 | 33-10 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 |
| 450.00 | 37-9 | 37-10 | 37-11 | 38-0 | 38-1 | 38-3 | 38-4 | 38-5 | 38-6 | 38-7 |
| 475.00 | 42-1 | 42-2 | 42-4 | 42-5 | 42-6 | 42-8 | 42-9 | 42-10 | 42-11 | 43-1 |
| 500.00 | 46-8 | 46-10 | 46-11 | 47-1 | 47-2 | 47-3 | 47-5 | 47-6 | 47-8 | 47-9 |
| 525.00 | 51-6 | 51-8 | 51-10 | 51-11 | 52-1 | 52-2 | 52-4 | 52-6 | 52-7 | 52-9 |
| 550.00 | 56-8 | 56-9 | 56-11 | 57-1 | 57-3 | 57-4 | 57-6 | 57-8 | 57-10 | 57-11 |
| 575.00 | 62-0 | 62-2 | 62-4 | 62-5 | 62-7 | 62-9 | 62-11 | 63-1 | 63-3 | 63-5 |
| 600.00 | 67-7 | 67-9 | 67-11 | 68-1 | 68-3 | 68-5 | 68-7 | 68-9 | 69-0 | 69-2 |
| 625.00 | 73-5 | 73-7 | 73-10 | 74-0 | 74-2 | 74-4 | 74-7 | 74-9 | 74-11 | 75-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 |
| 275.00 | 14-0 | 14-1 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 |
| 300.00 | 16-8 | 16-9 | 16-9 | 16-10 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 |
| 325.00 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-1 |
| 350.00 | 22-9 | 22-10 | 22-10 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-3 |
| 375.00 | 26-2 | 26-3 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-7 | 26-8 | 26-9 |
| 400.00 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-5 |
| 425.00 | 33-8 | 33-9 | 33-10 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 |
| 450.00 | 37-9 | 37-10 | 37-11 | 38-1 | 38-2 | 38-3 | 38-4 | 38-5 | 38-6 | 38-7 |
| 475.00 | 42-1 | 42-3 | 42-4 | 42-5 | 42-6 | 42-8 | 42-9 | 42-10 | 43-0 | 43-1 |
| 500.00 | 46-8 | 46-10 | 46-11 | 47-1 | 47-2 | 47-4 | 47-5 | 47-7 | 47-8 | 47-9 |
| 525.00 | 51-7 | 51-8 | 51-10 | 51-11 | 52-1 | 52-3 | 52-4 | 52-6 | 52-7 | 52-9 |
| 550.00 | 56-8 | 56-10 | 56-11 | 57-1 | 57-3 | 57-5 | 57-6 | 57-8 | 57-10 | 58-0 |
| 575.00 | 62-0 | 62-2 | 62-4 | 62-6 | 62-8 | 62-10 | 63-0 | 63-1 | 63-3 | 63-5 |
| 600.00 | 67-7 | 67-9 | 67-11 | 68-1 | 68-4 | 68-6 | 68-8 | 68-10 | 69-0 | 69-2 |
| 625.00 | 73-5 | 73-8 | 73-10 | 74-0 | 74-3 | 74-5 | 74-7 | 74-9 | 75-0 | 75-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 1.38 | 1981 | 1.37 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 0.74 | 1913 | 0.73 | 1948 |
| 30 | 0 | 0 | 0 | 1.134 | 0.91 | 1559 | 0.88 | 1613 |
| 40 | 0 | 0 | 0 | 1.134 | 1.08 | 1319 | 1.03 | 1370 |
| 50 | 0 | 0 | 0 | 1.134 | 1.23 | 1151 | 1.19 | 1195 |
| 60 | 0 | 0 | 0 | 1.134 | 1.38 | 1028 | 1.33 | 1065 |
| 70 | 0 | 0 | 0 | 1.134 | 1.52 | 935 | 1.47 | 966 |
| 80 | 0 | 0 | 0 | 1.134 | 1.65 | 862 | 1.6 | 889 |
| 90 | 0 | 0 | 0 | 1.134 | 1.77 | 803 | 1.72 | 826 |
| 100 | 0 | 0 | 0 | 1.134 | 1.88 | 754 | 1.83 | 774 |
| 110 | 0 | 0 | 0 | 1.134 | 1.99 | 713 | 1.94 | 731 |
| 120 | 0 | 0 | 0 | 1.134 | 2.06 | 690 | 2.05 | 694 |
| 130 | 0 | 0 | 0 | 1.134 | 2.11 | 672 | 2.11 | 672 |
| 167 | 0 | 0 | 0 | 1.134 | 2.31 | 616 | 2.3 | 616 |
| 212 | 0 | 0 | 0 | 1.134 | 2.53 | 562 | 2.53 | 563 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 5.5 | 1994 | 5.48 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 4.84 | 1175 | 4.79 | 1187 |
| 30 | 0 | 0 | 0 | 1.134 | 5.01 | 1135 | 4.96 | 1147 |
| 40 | 0 | 0 | 0 | 1.134 | 5.18 | 1098 | 5.12 | 1110 |
| 50 | 0 | 0 | 0 | 1.134 | 5.34 | 1065 | 5.28 | 1076 |
| 60 | 0 | 0 | 0 | 1.134 | 5.5 | 1035 | 5.44 | 1045 |
| 70 | 0 | 0 | 0 | 1.134 | 5.65 | 1007 | 5.59 | 1017 |
| 80 | 0 | 0 | 0 | 1.134 | 5.8 | 981 | 5.74 | 990 |
| 90 | 0 | 0 | 0 | 1.134 | 5.95 | 957 | 5.89 | 966 |
| 100 | 0 | 0 | 0 | 1.134 | 6.09 | 934 | 6.03 | 943 |
| 110 | 0 | 0 | 0 | 1.134 | 6.23 | 913 | 6.17 | 922 |
| 120 | 0 | 0 | 0 | 1.134 | 6.37 | 894 | 6.31 | 902 |
| 130 | 0 | 0 | 0 | 1.134 | 6.5 | 875 | 6.44 | 884 |
| 167 | 0 | 0 | 0 | 1.134 | 6.8 | 838 | 6.8 | 838 |
| 212 | 0 | 0 | 0 | 1.134 | 7.12 | 800 | 7.12 | 800 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 12.4 | 1997 | 12.38 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 11.74 | 1093 | 11.69 | 1098 |
| 30 | 0 | 0 | 0 | 1.134 | 11.91 | 1078 | 11.86 | 1083 |
| 40 | 0 | 0 | 0 | 1.134 | 12.07 | 1064 | 12.02 | 1068 |
| 50 | 0 | 0 | 0 | 1.134 | 12.24 | 1050 | 12.18 | 1054 |
| 60 | 0 | 0 | 0 | 1.134 | 12.39 | 1036 | 12.34 | 1041 |
| 70 | 0 | 0 | 0 | 1.134 | 12.55 | 1023 | 12.49 | 1028 |
| 80 | 0 | 0 | 0 | 1.134 | 12.71 | 1011 | 12.65 | 1016 |
| 90 | 0 | 0 | 0 | 1.134 | 12.86 | 999 | 12.8 | 1004 |
| 100 | 0 | 0 | 0 | 1.134 | 13.02 | 988 | 12.95 | 992 |
| 110 | 0 | 0 | 0 | 1.134 | 13.17 | 976 | 13.1 | 981 |
| 120 | 0 | 0 | 0 | 1.134 | 13.32 | 966 | 13.25 | 970 |
| 130 | 0 | 0 | 0 | 1.134 | 13.46 | 955 | 13.4 | 960 |
| 167 | 0 | 0 | 0 | 1.134 | 13.85 | 929 | 13.85 | 929 |
| 212 | 0 | 0 | 0 | 1.134 | 14.23 | 905 | 14.23 | 905 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 22.14 | 1998 | 22.12 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 21.49 | 1067 | 21.44 | 1070 |
| 30 | 0 | 0 | 0 | 1.134 | 21.66 | 1060 | 21.6 | 1062 |
| 40 | 0 | 0 | 0 | 1.134 | 21.82 | 1052 | 21.76 | 1054 |
| 50 | 0 | 0 | 0 | 1.134 | 21.98 | 1044 | 21.92 | 1047 |
| 60 | 0 | 0 | 0 | 1.134 | 22.14 | 1037 | 22.08 | 1040 |
| 70 | 0 | 0 | 0 | 1.134 | 22.3 | 1030 | 22.24 | 1032 |
| 80 | 0 | 0 | 0 | 1.134 | 22.46 | 1023 | 22.4 | 1025 |
| 90 | 0 | 0 | 0 | 1.134 | 22.62 | 1016 | 22.56 | 1018 |
| 100 | 0 | 0 | 0 | 1.134 | 22.77 | 1009 | 22.71 | 1012 |
| 110 | 0 | 0 | 0 | 1.134 | 22.93 | 1002 | 22.86 | 1005 |
| 120 | 0 | 0 | 0 | 1.134 | 23.08 | 996 | 23.02 | 998 |
| 130 | 0 | 0 | 0 | 1.134 | 23.23 | 989 | 23.17 | 992 |
| 167 | 0 | 0 | 0 | 1.134 | 23.67 | 971 | 23.67 | 971 |
| 212 | 0 | 0 | 0 | 1.134 | 24.07 | 956 | 24.07 | 956 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 34.83 | 1999 | 34.81 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 34.18 | 1056 | 34.13 | 1058 |
| 30 | 0 | 0 | 0 | 1.134 | 34.35 | 1051 | 34.29 | 1053 |
| 40 | 0 | 0 | 0 | 1.134 | 34.51 | 1046 | 34.45 | 1048 |
| 50 | 0 | 0 | 0 | 1.134 | 34.67 | 1042 | 34.61 | 1043 |
| 60 | 0 | 0 | 0 | 1.134 | 34.83 | 1037 | 34.77 | 1039 |
| 70 | 0 | 0 | 0 | 1.134 | 34.99 | 1033 | 34.93 | 1034 |
| 80 | 0 | 0 | 0 | 1.134 | 35.15 | 1028 | 35.09 | 1030 |
| 90 | 0 | 0 | 0 | 1.134 | 35.31 | 1024 | 35.25 | 1025 |
| 100 | 0 | 0 | 0 | 1.134 | 35.47 | 1019 | 35.4 | 1021 |
| 110 | 0 | 0 | 0 | 1.134 | 35.62 | 1015 | 35.56 | 1017 |
| 120 | 0 | 0 | 0 | 1.134 | 35.78 | 1011 | 35.72 | 1012 |
| 130 | 0 | 0 | 0 | 1.134 | 35.94 | 1007 | 35.87 | 1008 |
| 167 | 0 | 0 | 0 | 1.134 | 36.4 | 994 | 36.4 | 994 |
| 212 | 0 | 0 | 0 | 1.134 | 36.82 | 983 | 36.82 | 983 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 150.00 | 1-8 | 2-0 | 2-4 | 2-8 | 3-0 | 3-4 | 3-7 | 3-10 | 4-2 | 4-4 |
| 175.00 | 2-3 | 2-8 | 3-2 | 3-8 | 4-1 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 |
| 200.00 | 2-11 | 3-6 | 4-2 | 4-9 | 5-4 | 5-11 | 6-5 | 6-11 | 7-4 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 100.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 125.00 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 |
| 150.00 | 1-8 | 2-1 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 |
| 175.00 | 2-3 | 2-9 | 3-4 | 3-9 | 4-3 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 |
| 200.00 | 3-0 | 3-8 | 4-4 | 4-11 | 5-6 | 6-1 | 6-7 | 7-1 | 7-6 | 8-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 125.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 |
| 150.00 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 175.00 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 |
| 200.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 |
| 225.00 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 |
| 250.00 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-5 | 9-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 125.00 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 |
| 150.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 175.00 | 3-8 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 |
| 200.00 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 |
| 225.00 | 6-1 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-9 | 7-11 |
| 250.00 | 7-7 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 175.00 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 |
| 200.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 |
| 225.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 |
| 250.00 | 8-1 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 |
| 275.00 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 |
| 300.00 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 |
| 325.00 | 13-9 | 13-11 | 14-1 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-3 | 15-5 |
| 350.00 | 15-11 | 16-2 | 16-4 | 16-7 | 16-10 | 17-0 | 17-3 | 17-5 | 17-8 | 17-10 |
| 375.00 | 18-3 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-0 | 20-3 | 20-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 |
| 175.00 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 |
| 200.00 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 |
| 225.00 | 6-7 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 250.00 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 | 9-0 | 9-2 |
| 275.00 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-1 |
| 300.00 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-2 |
| 325.00 | 13-9 | 14-0 | 14-2 | 14-4 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-6 |
| 350.00 | 16-0 | 16-3 | 16-5 | 16-8 | 16-11 | 17-1 | 17-4 | 17-6 | 17-9 | 17-11 |
| 375.00 | 18-4 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 | 20-4 | 20-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 |
| 225.00 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 |
| 250.00 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 |
| 275.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-9 |
| 300.00 | 12-0 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 |
| 325.00 | 14-2 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 | 15-0 | 15-1 |
| 350.00 | 16-5 | 16-6 | 16-8 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 | 17-6 |
| 375.00 | 18-10 | 19-0 | 19-1 | 19-3 | 19-5 | 19-6 | 19-8 | 19-10 | 19-11 | 20-1 |
| 400.00 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 | 22-5 | 22-7 | 22-9 | 22-10 |
| 425.00 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 | 25-4 | 25-6 | 25-8 | 25-10 |
| 450.00 | 27-2 | 27-4 | 27-7 | 27-9 | 28-0 | 28-2 | 28-5 | 28-7 | 28-9 | 29-0 |
| 475.00 | 30-3 | 30-6 | 30-9 | 31-0 | 31-2 | 31-5 | 31-8 | 31-10 | 32-1 | 32-4 |
| 500.00 | 33-7 | 33-10 | 34-1 | 34-4 | 34-7 | 34-10 | 35-1 | 35-4 | 35-7 | 35-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 |
| 225.00 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 |
| 250.00 | 8-5 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 |
| 275.00 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 |
| 300.00 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 |
| 325.00 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 | 14-8 | 14-10 | 14-11 | 15-0 | 15-1 |
| 350.00 | 16-5 | 16-7 | 16-8 | 16-10 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 |
| 375.00 | 18-11 | 19-0 | 19-2 | 19-4 | 19-5 | 19-7 | 19-9 | 19-10 | 20-0 | 20-2 |
| 400.00 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-7 | 22-9 | 22-11 |
| 425.00 | 24-3 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-7 | 25-9 | 25-11 |
| 450.00 | 27-3 | 27-5 | 27-8 | 27-10 | 28-1 | 28-3 | 28-5 | 28-8 | 28-10 | 29-1 |
| 475.00 | 30-4 | 30-7 | 30-10 | 31-1 | 31-3 | 31-6 | 31-9 | 31-11 | 32-2 | 32-5 |
| 500.00 | 33-8 | 33-11 | 34-2 | 34-5 | 34-8 | 34-11 | 35-2 | 35-5 | 35-8 | 35-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 |
| 275.00 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-8 |
| 300.00 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 |
| 325.00 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 |
| 350.00 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-3 | 17-4 |
| 375.00 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 |
| 400.00 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 |
| 425.00 | 24-7 | 24-9 | 24-10 | 25-0 | 25-1 | 25-2 | 25-4 | 25-5 | 25-6 | 25-8 |
| 450.00 | 27-7 | 27-9 | 27-11 | 28-0 | 28-2 | 28-3 | 28-5 | 28-6 | 28-8 | 28-9 |
| 475.00 | 30-9 | 30-11 | 31-1 | 31-3 | 31-4 | 31-6 | 31-8 | 31-9 | 31-11 | 32-1 |
| 500.00 | 34-2 | 34-4 | 34-5 | 34-7 | 34-9 | 34-11 | 35-1 | 35-3 | 35-5 | 35-7 |
| 525.00 | 37-8 | 37-10 | 38-0 | 38-2 | 38-4 | 38-6 | 38-9 | 38-11 | 39-1 | 39-3 |
| 550.00 | 41-4 | 41-7 | 41-9 | 41-11 | 42-2 | 42-4 | 42-6 | 42-9 | 42-11 | 43-1 |
| 575.00 | 45-3 | 45-5 | 45-8 | 45-10 | 46-1 | 46-4 | 46-6 | 46-9 | 46-11 | 47-2 |
| 600.00 | 49-3 | 49-6 | 49-9 | 50-0 | 50-3 | 50-5 | 50-8 | 50-11 | 51-2 | 51-4 |
| 625.00 | 53-6 | 53-9 | 54-0 | 54-3 | 54-6 | 54-9 | 55-0 | 55-3 | 55-6 | 55-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 |
| 275.00 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 |
| 300.00 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-7 | 12-7 | 12-8 | 12-9 | 12-9 |
| 325.00 | 14-5 | 14-6 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-10 | 14-11 | 15-0 |
| 350.00 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 |
| 375.00 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 |
| 400.00 | 21-10 | 21-11 | 22-0 | 22-2 | 22-3 | 22-4 | 22-5 | 22-7 | 22-8 | 22-9 |
| 425.00 | 24-8 | 24-9 | 24-11 | 25-0 | 25-1 | 25-3 | 25-4 | 25-6 | 25-7 | 25-8 |
| 450.00 | 27-8 | 27-9 | 27-11 | 28-1 | 28-2 | 28-4 | 28-5 | 28-7 | 28-8 | 28-10 |
| 475.00 | 30-10 | 31-0 | 31-2 | 31-3 | 31-5 | 31-7 | 31-8 | 31-10 | 32-0 | 32-2 |
| 500.00 | 34-2 | 34-4 | 34-6 | 34-8 | 34-10 | 35-0 | 35-2 | 35-4 | 35-6 | 35-7 |
| 525.00 | 37-9 | 37-11 | 38-1 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-2 | 39-4 |
| 550.00 | 41-5 | 41-7 | 41-10 | 42-0 | 42-2 | 42-5 | 42-7 | 42-9 | 43-0 | 43-2 |
| 575.00 | 45-4 | 45-6 | 45-9 | 45-11 | 46-2 | 46-4 | 46-7 | 46-10 | 47-0 | 47-3 |
| 600.00 | 49-4 | 49-7 | 49-10 | 50-1 | 50-4 | 50-6 | 50-9 | 51-0 | 51-3 | 51-5 |
| 625.00 | 53-7 | 53-10 | 54-1 | 54-4 | 54-7 | 54-10 | 55-1 | 55-4 | 55-7 | 55-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 1.15 | 2379 | 1.09 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 0.49 | 2900 | 0.46 | 3054 |
| 30 | 0 | 0 | 0 | 1.134 | 0.62 | 2273 | 0.57 | 2496 |
| 40 | 0 | 0 | 0 | 1.134 | 0.78 | 1808 | 0.7 | 2030 |
| 50 | 0 | 0 | 0 | 1.134 | 0.95 | 1488 | 0.85 | 1672 |
| 60 | 0 | 0 | 0 | 1.134 | 1.12 | 1270 | 1 | 1413 |
| 70 | 0 | 0 | 0 | 1.134 | 1.27 | 1115 | 1.16 | 1226 |
| 80 | 0 | 0 | 0 | 1.134 | 1.42 | 1002 | 1.3 | 1088 |
| 90 | 0 | 0 | 0 | 1.134 | 1.55 | 915 | 1.44 | 984 |
| 100 | 0 | 0 | 0 | 1.134 | 1.68 | 846 | 1.57 | 903 |
| 110 | 0 | 0 | 0 | 1.134 | 1.8 | 790 | 1.69 | 838 |
| 120 | 0 | 0 | 0 | 1.134 | 1.87 | 759 | 1.81 | 784 |
| 130 | 0 | 0 | 0 | 1.134 | 1.93 | 736 | 1.92 | 740 |
| 167 | 0 | 0 | 0 | 1.134 | 2.13 | 666 | 2.12 | 670 |
| 212 | 0 | 0 | 0 | 1.134 | 2.37 | 601 | 2.35 | 604 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 4.46 | 2456 | 4.38 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 3.6 | 1577 | 3.46 | 1642 |
| 30 | 0 | 0 | 0 | 1.134 | 3.82 | 1488 | 3.67 | 1546 |
| 40 | 0 | 0 | 0 | 1.134 | 4.02 | 1412 | 3.88 | 1464 |
| 50 | 0 | 0 | 0 | 1.134 | 4.22 | 1345 | 4.08 | 1393 |
| 60 | 0 | 0 | 0 | 1.134 | 4.41 | 1287 | 4.27 | 1330 |
| 70 | 0 | 0 | 0 | 1.134 | 4.6 | 1235 | 4.46 | 1275 |
| 80 | 0 | 0 | 0 | 1.134 | 4.78 | 1189 | 4.64 | 1225 |
| 90 | 0 | 0 | 0 | 1.134 | 4.95 | 1148 | 4.81 | 1181 |
| 100 | 0 | 0 | 0 | 1.134 | 5.12 | 1110 | 4.98 | 1141 |
| 110 | 0 | 0 | 0 | 1.134 | 5.28 | 1076 | 5.15 | 1105 |
| 120 | 0 | 0 | 0 | 1.134 | 5.44 | 1045 | 5.31 | 1071 |
| 130 | 0 | 0 | 0 | 1.134 | 5.6 | 1016 | 5.46 | 1041 |
| 167 | 0 | 0 | 0 | 1.134 | 5.96 | 955 | 5.95 | 956 |
| 212 | 0 | 0 | 0 | 1.134 | 6.31 | 902 | 6.31 | 903 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 9.96 | 2479 | 9.88 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 9.1 | 1407 | 8.95 | 1430 |
| 30 | 0 | 0 | 0 | 1.134 | 9.31 | 1375 | 9.16 | 1397 |
| 40 | 0 | 0 | 0 | 1.134 | 9.52 | 1346 | 9.37 | 1367 |
| 50 | 0 | 0 | 0 | 1.134 | 9.72 | 1318 | 9.57 | 1339 |
| 60 | 0 | 0 | 0 | 1.134 | 9.92 | 1292 | 9.77 | 1312 |
| 70 | 0 | 0 | 0 | 1.134 | 10.11 | 1268 | 9.96 | 1287 |
| 80 | 0 | 0 | 0 | 1.134 | 10.3 | 1244 | 10.15 | 1263 |
| 90 | 0 | 0 | 0 | 1.134 | 10.49 | 1222 | 10.34 | 1240 |
| 100 | 0 | 0 | 0 | 1.134 | 10.67 | 1202 | 10.52 | 1219 |
| 110 | 0 | 0 | 0 | 1.134 | 10.85 | 1182 | 10.7 | 1198 |
| 120 | 0 | 0 | 0 | 1.134 | 11.03 | 1163 | 10.88 | 1179 |
| 130 | 0 | 0 | 0 | 1.134 | 11.21 | 1145 | 11.06 | 1160 |
| 167 | 0 | 0 | 0 | 1.134 | 11.73 | 1095 | 11.68 | 1099 |
| 212 | 0 | 0 | 0 | 1.134 | 12.15 | 1057 | 12.15 | 1057 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 17.71 | 2488 | 17.62 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 16.85 | 1356 | 16.7 | 1368 |
| 30 | 0 | 0 | 0 | 1.134 | 17.06 | 1339 | 16.91 | 1351 |
| 40 | 0 | 0 | 0 | 1.134 | 17.26 | 1324 | 17.11 | 1335 |
| 50 | 0 | 0 | 0 | 1.134 | 17.46 | 1309 | 17.31 | 1320 |
| 60 | 0 | 0 | 0 | 1.134 | 17.66 | 1294 | 17.51 | 1305 |
| 70 | 0 | 0 | 0 | 1.134 | 17.86 | 1280 | 17.7 | 1291 |
| 80 | 0 | 0 | 0 | 1.134 | 18.05 | 1267 | 17.9 | 1277 |
| 90 | 0 | 0 | 0 | 1.134 | 18.24 | 1253 | 18.09 | 1264 |
| 100 | 0 | 0 | 0 | 1.134 | 18.44 | 1241 | 18.28 | 1251 |
| 110 | 0 | 0 | 0 | 1.134 | 18.63 | 1228 | 18.47 | 1239 |
| 120 | 0 | 0 | 0 | 1.134 | 18.81 | 1216 | 18.66 | 1226 |
| 130 | 0 | 0 | 0 | 1.134 | 19 | 1205 | 18.84 | 1215 |
| 167 | 0 | 0 | 0 | 1.134 | 19.61 | 1168 | 19.51 | 1174 |
| 212 | 0 | 0 | 0 | 1.134 | 20.08 | 1141 | 20.08 | 1141 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 27.75 | 2492 | 27.66 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 26.89 | 1333 | 26.74 | 1341 |
| 30 | 0 | 0 | 0 | 1.134 | 27.09 | 1324 | 26.94 | 1331 |
| 40 | 0 | 0 | 0 | 1.134 | 27.29 | 1314 | 27.14 | 1321 |
| 50 | 0 | 0 | 0 | 1.134 | 27.49 | 1305 | 27.34 | 1312 |
| 60 | 0 | 0 | 0 | 1.134 | 27.69 | 1295 | 27.54 | 1302 |
| 70 | 0 | 0 | 0 | 1.134 | 27.89 | 1286 | 27.74 | 1293 |
| 80 | 0 | 0 | 0 | 1.134 | 28.09 | 1277 | 27.93 | 1284 |
| 90 | 0 | 0 | 0 | 1.134 | 28.29 | 1269 | 28.13 | 1276 |
| 100 | 0 | 0 | 0 | 1.134 | 28.48 | 1260 | 28.32 | 1267 |
| 110 | 0 | 0 | 0 | 1.134 | 28.67 | 1252 | 28.52 | 1259 |
| 120 | 0 | 0 | 0 | 1.134 | 28.87 | 1244 | 28.71 | 1251 |
| 130 | 0 | 0 | 0 | 1.134 | 29.06 | 1236 | 28.9 | 1243 |
| 167 | 0 | 0 | 0 | 1.134 | 29.73 | 1209 | 29.59 | 1215 |
| 212 | 0 | 0 | 0 | 1.134 | 30.23 | 1190 | 30.23 | 1190 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 |
| 125.00 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 |
| 150.00 | 1-1 | 1-3 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-10 |
| 175.00 | 1-5 | 1-9 | 2-2 | 2-7 | 3-1 | 3-7 | 4-0 | 4-5 | 4-10 | 5-2 |
| 200.00 | 1-10 | 2-3 | 2-10 | 3-5 | 4-0 | 4-8 | 5-3 | 5-9 | 6-4 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 |
| 125.00 | 0-9 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 | 2-10 |
| 150.00 | 1-1 | 1-5 | 1-9 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-1 |
| 175.00 | 1-6 | 1-11 | 2-5 | 2-11 | 3-5 | 3-11 | 4-4 | 4-9 | 5-2 | 5-6 |
| 200.00 | 1-11 | 2-6 | 3-2 | 3-10 | 4-6 | 5-1 | 5-8 | 6-3 | 6-9 | 7-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 |
| 175.00 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 |
| 200.00 | 3-5 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 |
| 225.00 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-4 | 6-6 |
| 250.00 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 |
| 125.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 |
| 150.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 |
| 175.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 |
| 200.00 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 |
| 225.00 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 |
| 250.00 | 5-8 | 6-0 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 | 7-9 | 8-0 | 8-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 |
| 175.00 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 |
| 200.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 225.00 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 |
| 250.00 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 |
| 275.00 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 |
| 300.00 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 |
| 325.00 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 | 12-2 | 12-4 | 12-7 |
| 350.00 | 12-2 | 12-6 | 12-9 | 13-0 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-7 |
| 375.00 | 14-0 | 14-4 | 14-8 | 15-0 | 15-3 | 15-7 | 15-10 | 16-2 | 16-5 | 16-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 |
| 175.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 |
| 200.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 225.00 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 |
| 250.00 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 |
| 275.00 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-1 |
| 300.00 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-10 |
| 325.00 | 10-8 | 10-11 | 11-2 | 11-5 | 11-8 | 11-10 | 12-1 | 12-4 | 12-6 | 12-9 |
| 350.00 | 12-5 | 12-8 | 13-0 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 |
| 375.00 | 14-3 | 14-7 | 14-11 | 15-2 | 15-6 | 15-10 | 16-1 | 16-5 | 16-8 | 17-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 225.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 |
| 250.00 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 |
| 275.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 |
| 300.00 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-5 |
| 325.00 | 11-0 | 11-2 | 11-3 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 |
| 350.00 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-2 |
| 375.00 | 14-8 | 14-10 | 15-0 | 15-2 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 |
| 400.00 | 16-8 | 16-11 | 17-1 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 | 18-6 |
| 425.00 | 18-10 | 19-1 | 19-4 | 19-7 | 19-9 | 20-0 | 20-3 | 20-5 | 20-8 | 20-10 |
| 450.00 | 21-2 | 21-5 | 21-8 | 21-11 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 |
| 475.00 | 23-7 | 23-10 | 24-2 | 24-5 | 24-9 | 25-0 | 25-3 | 25-6 | 25-10 | 26-1 |
| 500.00 | 26-2 | 26-5 | 26-9 | 27-1 | 27-5 | 27-8 | 28-0 | 28-4 | 28-7 | 28-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 |
| 225.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-11 |
| 250.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-3 |
| 275.00 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 300.00 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 | 10-6 |
| 325.00 | 11-1 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 | 12-2 | 12-3 |
| 350.00 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-1 | 14-3 |
| 375.00 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 |
| 400.00 | 16-10 | 17-1 | 17-3 | 17-6 | 17-8 | 17-10 | 18-1 | 18-3 | 18-5 | 18-8 |
| 425.00 | 19-0 | 19-3 | 19-6 | 19-9 | 19-11 | 20-2 | 20-5 | 20-7 | 20-10 | 21-0 |
| 450.00 | 21-4 | 21-7 | 21-10 | 22-1 | 22-4 | 22-7 | 22-10 | 23-1 | 23-4 | 23-7 |
| 475.00 | 23-9 | 24-1 | 24-4 | 24-8 | 24-11 | 25-2 | 25-6 | 25-9 | 26-0 | 26-4 |
| 500.00 | 26-4 | 26-8 | 27-0 | 27-4 | 27-8 | 27-11 | 28-3 | 28-7 | 28-10 | 29-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 |
| 275.00 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 |
| 300.00 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-3 |
| 325.00 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 |
| 350.00 | 13-1 | 13-2 | 13-3 | 13-4 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 |
| 375.00 | 15-0 | 15-2 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 |
| 400.00 | 17-1 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 | 18-3 |
| 425.00 | 19-4 | 19-5 | 19-7 | 19-9 | 19-11 | 20-0 | 20-2 | 20-4 | 20-5 | 20-7 |
| 450.00 | 21-8 | 21-10 | 22-0 | 22-2 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 |
| 475.00 | 24-1 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-5 | 25-7 | 25-9 |
| 500.00 | 26-9 | 26-11 | 27-2 | 27-4 | 27-6 | 27-9 | 27-11 | 28-2 | 28-4 | 28-6 |
| 525.00 | 29-6 | 29-9 | 29-11 | 30-2 | 30-5 | 30-7 | 30-10 | 31-0 | 31-3 | 31-5 |
| 550.00 | 32-5 | 32-7 | 32-10 | 33-1 | 33-4 | 33-7 | 33-10 | 34-1 | 34-4 | 34-6 |
| 575.00 | 35-5 | 35-8 | 35-11 | 36-2 | 36-6 | 36-9 | 37-0 | 37-3 | 37-6 | 37-9 |
| 600.00 | 38-7 | 38-10 | 39-2 | 39-5 | 39-9 | 40-0 | 40-4 | 40-7 | 40-10 | 41-2 |
| 625.00 | 41-10 | 42-2 | 42-6 | 42-10 | 43-2 | 43-5 | 43-9 | 44-1 | 44-4 | 44-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 |
| 275.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 |
| 300.00 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 |
| 325.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 350.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 |
| 375.00 | 15-1 | 15-3 | 15-4 | 15-5 | 15-7 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 |
| 400.00 | 17-2 | 17-4 | 17-5 | 17-7 | 17-8 | 17-10 | 17-11 | 18-1 | 18-2 | 18-4 |
| 425.00 | 19-5 | 19-7 | 19-8 | 19-10 | 20-0 | 20-2 | 20-3 | 20-5 | 20-7 | 20-8 |
| 450.00 | 21-9 | 21-11 | 22-1 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-2 |
| 475.00 | 24-3 | 24-5 | 24-7 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 | 25-8 | 25-10 |
| 500.00 | 26-11 | 27-1 | 27-4 | 27-6 | 27-8 | 27-11 | 28-1 | 28-3 | 28-6 | 28-8 |
| 525.00 | 29-8 | 29-11 | 30-1 | 30-4 | 30-7 | 30-9 | 31-0 | 31-2 | 31-5 | 31-8 |
| 550.00 | 32-7 | 32-10 | 33-1 | 33-4 | 33-6 | 33-9 | 34-0 | 34-3 | 34-6 | 34-9 |
| 575.00 | 35-7 | 35-10 | 36-2 | 36-5 | 36-8 | 36-11 | 37-2 | 37-6 | 37-9 | 38-0 |
| 600.00 | 38-9 | 39-1 | 39-4 | 39-8 | 39-11 | 40-3 | 40-6 | 40-10 | 41-1 | 41-4 |
| 625.00 | 42-1 | 42-5 | 42-9 | 43-1 | 43-4 | 43-8 | 44-0 | 44-4 | 44-7 | 44-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 1 | 2721 | 0.91 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 0.38 | 3714 | 0.35 | 4003 |
| 30 | 0 | 0 | 0 | 1.134 | 0.48 | 2947 | 0.42 | 3366 |
| 40 | 0 | 0 | 0 | 1.134 | 0.61 | 2309 | 0.51 | 2771 |
| 50 | 0 | 0 | 0 | 1.134 | 0.77 | 1834 | 0.63 | 2253 |
| 60 | 0 | 0 | 0 | 1.134 | 0.94 | 1506 | 0.77 | 1840 |
| 70 | 0 | 0 | 0 | 1.134 | 1.11 | 1282 | 0.92 | 1533 |
| 80 | 0 | 0 | 0 | 1.134 | 1.26 | 1124 | 1.08 | 1312 |
| 90 | 0 | 0 | 0 | 1.134 | 1.41 | 1008 | 1.23 | 1152 |
| 100 | 0 | 0 | 0 | 1.134 | 1.54 | 920 | 1.37 | 1033 |
| 110 | 0 | 0 | 0 | 1.134 | 1.67 | 850 | 1.51 | 941 |
| 120 | 0 | 0 | 0 | 1.134 | 1.74 | 816 | 1.63 | 869 |
| 130 | 0 | 0 | 0 | 1.134 | 1.8 | 790 | 1.75 | 810 |
| 167 | 0 | 0 | 0 | 1.134 | 2.01 | 708 | 1.99 | 714 |
| 212 | 0 | 0 | 0 | 1.134 | 2.25 | 632 | 2.23 | 637 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 3.8 | 2883 | 3.65 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 2.76 | 2059 | 2.52 | 2254 |
| 30 | 0 | 0 | 0 | 1.134 | 3.01 | 1888 | 2.76 | 2056 |
| 40 | 0 | 0 | 0 | 1.134 | 3.25 | 1748 | 3 | 1893 |
| 50 | 0 | 0 | 0 | 1.134 | 3.48 | 1632 | 3.23 | 1758 |
| 60 | 0 | 0 | 0 | 1.134 | 3.7 | 1535 | 3.45 | 1645 |
| 70 | 0 | 0 | 0 | 1.134 | 3.91 | 1452 | 3.67 | 1549 |
| 80 | 0 | 0 | 0 | 1.134 | 4.11 | 1381 | 3.87 | 1466 |
| 90 | 0 | 0 | 0 | 1.134 | 4.31 | 1318 | 4.07 | 1394 |
| 100 | 0 | 0 | 0 | 1.134 | 4.5 | 1263 | 4.27 | 1332 |
| 110 | 0 | 0 | 0 | 1.134 | 4.68 | 1214 | 4.45 | 1276 |
| 120 | 0 | 0 | 0 | 1.134 | 4.86 | 1170 | 4.63 | 1227 |
| 130 | 0 | 0 | 0 | 1.134 | 5.03 | 1130 | 4.81 | 1182 |
| 167 | 0 | 0 | 0 | 1.134 | 5.43 | 1047 | 5.41 | 1051 |
| 212 | 0 | 0 | 0 | 1.134 | 5.8 | 980 | 5.79 | 982 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 8.39 | 2940 | 8.22 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 7.31 | 1749 | 7.04 | 1816 |
| 30 | 0 | 0 | 0 | 1.134 | 7.56 | 1691 | 7.29 | 1753 |
| 40 | 0 | 0 | 0 | 1.134 | 7.81 | 1638 | 7.54 | 1696 |
| 50 | 0 | 0 | 0 | 1.134 | 8.05 | 1590 | 7.78 | 1644 |
| 60 | 0 | 0 | 0 | 1.134 | 8.28 | 1546 | 8.01 | 1597 |
| 70 | 0 | 0 | 0 | 1.134 | 8.51 | 1505 | 8.24 | 1553 |
| 80 | 0 | 0 | 0 | 1.134 | 8.73 | 1467 | 8.46 | 1512 |
| 90 | 0 | 0 | 0 | 1.134 | 8.94 | 1431 | 8.68 | 1474 |
| 100 | 0 | 0 | 0 | 1.134 | 9.16 | 1398 | 8.9 | 1439 |
| 110 | 0 | 0 | 0 | 1.134 | 9.37 | 1368 | 9.11 | 1406 |
| 120 | 0 | 0 | 0 | 1.134 | 9.57 | 1339 | 9.31 | 1375 |
| 130 | 0 | 0 | 0 | 1.134 | 9.77 | 1311 | 9.51 | 1346 |
| 167 | 0 | 0 | 0 | 1.134 | 10.4 | 1232 | 10.23 | 1253 |
| 212 | 0 | 0 | 0 | 1.134 | 10.86 | 1181 | 10.86 | 1181 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 14.83 | 2964 | 14.65 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 13.74 | 1658 | 13.47 | 1692 |
| 30 | 0 | 0 | 0 | 1.134 | 13.99 | 1629 | 13.72 | 1661 |
| 40 | 0 | 0 | 0 | 1.134 | 14.23 | 1601 | 13.96 | 1633 |
| 50 | 0 | 0 | 0 | 1.134 | 14.47 | 1575 | 14.2 | 1605 |
| 60 | 0 | 0 | 0 | 1.134 | 14.71 | 1550 | 14.44 | 1579 |
| 70 | 0 | 0 | 0 | 1.134 | 14.94 | 1526 | 14.67 | 1554 |
| 80 | 0 | 0 | 0 | 1.134 | 15.17 | 1503 | 14.9 | 1531 |
| 90 | 0 | 0 | 0 | 1.134 | 15.4 | 1481 | 15.13 | 1508 |
| 100 | 0 | 0 | 0 | 1.134 | 15.62 | 1460 | 15.35 | 1486 |
| 110 | 0 | 0 | 0 | 1.134 | 15.84 | 1440 | 15.57 | 1465 |
| 120 | 0 | 0 | 0 | 1.134 | 16.06 | 1421 | 15.79 | 1445 |
| 130 | 0 | 0 | 0 | 1.134 | 16.28 | 1403 | 16 | 1426 |
| 167 | 0 | 0 | 0 | 1.134 | 17.05 | 1340 | 16.78 | 1361 |
| 212 | 0 | 0 | 0 | 1.134 | 17.59 | 1300 | 17.58 | 1300 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 2.186 | 23.14 | 2977 | 22.96 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 22.05 | 1619 | 21.78 | 1639 |
| 30 | 0 | 0 | 0 | 1.134 | 22.3 | 1602 | 22.02 | 1622 |
| 40 | 0 | 0 | 0 | 1.134 | 22.54 | 1585 | 22.27 | 1604 |
| 50 | 0 | 0 | 0 | 1.134 | 22.78 | 1568 | 22.51 | 1587 |
| 60 | 0 | 0 | 0 | 1.134 | 23.02 | 1552 | 22.75 | 1571 |
| 70 | 0 | 0 | 0 | 1.134 | 23.26 | 1537 | 22.98 | 1555 |
| 80 | 0 | 0 | 0 | 1.134 | 23.49 | 1522 | 23.21 | 1540 |
| 90 | 0 | 0 | 0 | 1.134 | 23.72 | 1507 | 23.45 | 1525 |
| 100 | 0 | 0 | 0 | 1.134 | 23.95 | 1493 | 23.67 | 1510 |
| 110 | 0 | 0 | 0 | 1.134 | 24.18 | 1479 | 23.9 | 1496 |
| 120 | 0 | 0 | 0 | 1.134 | 24.41 | 1466 | 24.13 | 1483 |
| 130 | 0 | 0 | 0 | 1.134 | 24.63 | 1453 | 24.35 | 1469 |
| 167 | 0 | 0 | 0 | 1.134 | 25.44 | 1407 | 25.16 | 1423 |
| 212 | 0 | 0 | 0 | 1.134 | 26.08 | 1374 | 26.08 | 1374 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 100.00 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 |
| 125.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 |
| 150.00 | 0-10 | 0-11 | 1-2 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-5 |
| 175.00 | 1-1 | 1-3 | 1-7 | 1-11 | 2-4 | 2-10 | 3-4 | 3-9 | 4-2 | 4-7 |
| 200.00 | 1-5 | 1-8 | 2-1 | 2-6 | 3-1 | 3-8 | 4-4 | 4-11 | 5-6 | 6-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-9 | 0-10 | 0-11 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-8 |
| 125.00 | 0-7 | 0-9 | 1-0 | 1-2 | 1-6 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 |
| 150.00 | 0-10 | 1-1 | 1-5 | 1-9 | 2-1 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 |
| 175.00 | 1-2 | 1-6 | 1-11 | 2-4 | 2-11 | 3-5 | 3-10 | 4-4 | 4-9 | 5-1 |
| 200.00 | 1-6 | 1-11 | 2-5 | 3-1 | 3-9 | 4-5 | 5-1 | 5-8 | 6-2 | 6-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.238

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 150.00 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 |
| 175.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 |
| 200.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 |
| 225.00 | 3-2 | 3-6 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 |
| 250.00 | 3-11 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 7-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 150.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 |
| 175.00 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 |
| 200.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 |
| 225.00 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 |
| 250.00 | 4-4 | 4-8 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 |
| 175.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 |
| 200.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-1 |
| 225.00 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 |
| 250.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 |
| 275.00 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 |
| 300.00 | 7-0 | 7-4 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 |
| 325.00 | 8-3 | 8-7 | 8-10 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 |
| 350.00 | 9-7 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 | 11-6 | 11-10 | 12-1 | 12-5 |
| 375.00 | 11-0 | 11-5 | 11-9 | 12-2 | 12-6 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 175.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 |
| 200.00 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 |
| 225.00 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 |
| 250.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 |
| 275.00 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 |
| 300.00 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 |
| 325.00 | 8-7 | 8-11 | 9-2 | 9-5 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 |
| 350.00 | 9-11 | 10-4 | 10-8 | 10-11 | 11-3 | 11-7 | 11-11 | 12-2 | 12-6 | 12-9 |
| 375.00 | 11-5 | 11-10 | 12-2 | 12-7 | 12-11 | 13-4 | 13-8 | 14-0 | 14-4 | 14-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 |
| 225.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 |
| 250.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 |
| 275.00 | 6-4 | 6-6 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 |
| 300.00 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 | 8-6 | 8-8 | 8-9 |
| 325.00 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-3 |
| 350.00 | 10-4 | 10-6 | 10-8 | 10-10 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 |
| 375.00 | 11-10 | 12-1 | 12-3 | 12-6 | 12-8 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 |
| 400.00 | 13-6 | 13-9 | 14-0 | 14-2 | 14-5 | 14-8 | 14-11 | 15-2 | 15-4 | 15-7 |
| 425.00 | 15-2 | 15-6 | 15-9 | 16-0 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 |
| 450.00 | 17-1 | 17-4 | 17-8 | 18-0 | 18-3 | 18-7 | 18-10 | 19-2 | 19-5 | 19-9 |
| 475.00 | 19-0 | 19-4 | 19-8 | 20-0 | 20-4 | 20-8 | 21-0 | 21-4 | 21-8 | 22-0 |
| 500.00 | 21-1 | 21-5 | 21-10 | 22-3 | 22-7 | 22-11 | 23-4 | 23-8 | 24-0 | 24-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 |
| 225.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 |
| 250.00 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 |
| 275.00 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 | 7-6 |
| 300.00 | 7-9 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-11 |
| 325.00 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-5 |
| 350.00 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-2 |
| 375.00 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 | 13-2 | 13-4 | 13-6 | 13-9 | 13-11 |
| 400.00 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 | 14-11 | 15-2 | 15-5 | 15-7 | 15-10 |
| 425.00 | 15-6 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-2 | 17-5 | 17-8 | 17-11 |
| 450.00 | 17-5 | 17-9 | 18-0 | 18-4 | 18-8 | 18-11 | 19-3 | 19-6 | 19-9 | 20-1 |
| 475.00 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-1 | 22-4 |
| 500.00 | 21-6 | 21-11 | 22-3 | 22-8 | 23-0 | 23-4 | 23-9 | 24-1 | 24-5 | 24-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 |
| 275.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 |
| 300.00 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 325.00 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 |
| 350.00 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 |
| 375.00 | 12-3 | 12-4 | 12-6 | 12-8 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 | 13-5 |
| 400.00 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-8 | 14-10 | 15-0 | 15-2 | 15-3 |
| 425.00 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 |
| 450.00 | 17-8 | 17-10 | 18-0 | 18-3 | 18-5 | 18-7 | 18-10 | 19-0 | 19-2 | 19-4 |
| 475.00 | 19-8 | 19-10 | 20-1 | 20-4 | 20-6 | 20-9 | 20-11 | 21-2 | 21-4 | 21-7 |
| 500.00 | 21-9 | 22-0 | 22-3 | 22-6 | 22-9 | 23-0 | 23-3 | 23-5 | 23-8 | 23-11 |
| 525.00 | 24-0 | 24-3 | 24-7 | 24-10 | 25-1 | 25-4 | 25-7 | 25-10 | 26-1 | 26-4 |
| 550.00 | 26-4 | 26-8 | 26-11 | 27-3 | 27-6 | 27-10 | 28-1 | 28-5 | 28-8 | 28-11 |
| 575.00 | 28-10 | 29-2 | 29-6 | 29-10 | 30-1 | 30-5 | 30-9 | 31-0 | 31-4 | 31-8 |
| 600.00 | 31-5 | 31-9 | 32-1 | 32-5 | 32-10 | 33-2 | 33-6 | 33-10 | 34-2 | 34-6 |
| 625.00 | 34-1 | 34-6 | 34-10 | 35-3 | 35-7 | 36-0 | 36-4 | 36-8 | 37-1 | 37-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 |
| 275.00 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 |
| 300.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 325.00 | 9-4 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 |
| 350.00 | 10-10 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 |
| 375.00 | 12-5 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 |
| 400.00 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 |
| 425.00 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 | 16-9 | 17-0 | 17-2 | 17-4 | 17-5 |
| 450.00 | 17-10 | 18-1 | 18-3 | 18-5 | 18-8 | 18-10 | 19-0 | 19-2 | 19-5 | 19-7 |
| 475.00 | 19-11 | 20-1 | 20-4 | 20-7 | 20-9 | 21-0 | 21-2 | 21-5 | 21-7 | 21-10 |
| 500.00 | 22-1 | 22-4 | 22-7 | 22-9 | 23-0 | 23-3 | 23-6 | 23-9 | 23-11 | 24-2 |
| 525.00 | 24-4 | 24-7 | 24-10 | 25-2 | 25-5 | 25-8 | 25-11 | 26-2 | 26-5 | 26-8 |
| 550.00 | 26-8 | 27-0 | 27-4 | 27-7 | 27-10 | 28-2 | 28-5 | 28-9 | 29-0 | 29-3 |
| 575.00 | 29-2 | 29-6 | 29-10 | 30-2 | 30-6 | 30-9 | 31-1 | 31-5 | 31-9 | 32-0 |
| 600.00 | 31-10 | 32-2 | 32-6 | 32-10 | 33-2 | 33-6 | 33-10 | 34-3 | 34-6 | 34-10 |
| 625.00 | 34-6 | 34-11 | 35-3 | 35-8 | 36-0 | 36-5 | 36-9 | 37-2 | 37-6 | 37-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 2.74 | 1000 | 2.74 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 2.52 | 563 | 2.52 | 565 |
| 30 | 0 | 0 | 0 | 1.134 | 2.78 | 512 | 2.77 | 513 |
| 40 | 0 | 0 | 0 | 1.134 | 2.86 | 498 | 2.85 | 500 |
| 50 | 0 | 0 | 0 | 1.134 | 2.93 | 485 | 2.92 | 487 |
| 60 | 0 | 0 | 0 | 1.134 | 3.01 | 473 | 3 | 475 |
| 70 | 0 | 0 | 0 | 1.134 | 3.08 | 462 | 3.07 | 464 |
| 80 | 0 | 0 | 0 | 1.134 | 3.15 | 452 | 3.14 | 454 |
| 90 | 0 | 0 | 0 | 1.134 | 3.21 | 444 | 3.21 | 444 |
| 100 | 0 | 0 | 0 | 1.134 | 3.25 | 438 | 3.25 | 438 |
| 110 | 0 | 0 | 0 | 1.134 | 3.29 | 433 | 3.29 | 433 |
| 120 | 0 | 0 | 0 | 1.134 | 3.33 | 428 | 3.33 | 428 |
| 130 | 0 | 0 | 0 | 1.134 | 3.36 | 423 | 3.36 | 423 |
| 167 | 0 | 0 | 0 | 1.134 | 3.5 | 407 | 3.5 | 407 |
| 212 | 0 | 0 | 0 | 1.134 | 3.67 | 389 | 3.67 | 389 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 11.06 | 1000 | 11.06 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 10.85 | 529 | 10.84 | 529 |
| 30 | 0 | 0 | 0 | 1.134 | 11.1 | 517 | 11.09 | 517 |
| 40 | 0 | 0 | 0 | 1.134 | 11.18 | 513 | 11.17 | 514 |
| 50 | 0 | 0 | 0 | 1.134 | 11.26 | 510 | 11.25 | 510 |
| 60 | 0 | 0 | 0 | 1.134 | 11.34 | 506 | 11.33 | 507 |
| 70 | 0 | 0 | 0 | 1.134 | 11.42 | 503 | 11.41 | 504 |
| 80 | 0 | 0 | 0 | 1.134 | 11.5 | 500 | 11.48 | 500 |
| 90 | 0 | 0 | 0 | 1.134 | 11.56 | 497 | 11.56 | 497 |
| 100 | 0 | 0 | 0 | 1.134 | 11.63 | 494 | 11.63 | 494 |
| 110 | 0 | 0 | 0 | 1.134 | 11.68 | 492 | 11.68 | 492 |
| 120 | 0 | 0 | 0 | 1.134 | 11.72 | 490 | 11.72 | 490 |
| 130 | 0 | 0 | 0 | 1.134 | 11.77 | 489 | 11.77 | 489 |
| 167 | 0 | 0 | 0 | 1.134 | 11.93 | 482 | 11.93 | 482 |
| 212 | 0 | 0 | 0 | 1.134 | 12.14 | 474 | 12.14 | 474 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 25.29 | 1000 | 25.29 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 25.08 | 523 | 25.07 | 523 |
| 30 | 0 | 0 | 0 | 1.134 | 25.33 | 518 | 25.32 | 518 |
| 40 | 0 | 0 | 0 | 1.134 | 25.41 | 517 | 25.4 | 517 |
| 50 | 0 | 0 | 0 | 1.134 | 25.49 | 515 | 25.48 | 515 |
| 60 | 0 | 0 | 0 | 1.134 | 25.57 | 513 | 25.56 | 514 |
| 70 | 0 | 0 | 0 | 1.134 | 25.65 | 512 | 25.64 | 512 |
| 80 | 0 | 0 | 0 | 1.134 | 25.73 | 510 | 25.72 | 511 |
| 90 | 0 | 0 | 0 | 1.134 | 25.8 | 509 | 25.79 | 509 |
| 100 | 0 | 0 | 0 | 1.134 | 25.87 | 508 | 25.87 | 508 |
| 110 | 0 | 0 | 0 | 1.134 | 25.92 | 507 | 25.92 | 507 |
| 120 | 0 | 0 | 0 | 1.134 | 25.97 | 506 | 25.97 | 506 |
| 130 | 0 | 0 | 0 | 1.134 | 26.01 | 505 | 26.01 | 505 |
| 167 | 0 | 0 | 0 | 1.134 | 26.19 | 502 | 26.19 | 502 |
| 212 | 0 | 0 | 0 | 1.134 | 26.4 | 498 | 26.4 | 498 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 46.04 | 1000 | 46.04 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 45.83 | 521 | 45.82 | 521 |
| 30 | 0 | 0 | 0 | 1.134 | 46.08 | 518 | 46.07 | 519 |
| 40 | 0 | 0 | 0 | 1.134 | 46.16 | 518 | 46.15 | 518 |
| 50 | 0 | 0 | 0 | 1.134 | 46.24 | 517 | 46.23 | 517 |
| 60 | 0 | 0 | 0 | 1.134 | 46.32 | 516 | 46.31 | 516 |
| 70 | 0 | 0 | 0 | 1.134 | 46.4 | 515 | 46.39 | 515 |
| 80 | 0 | 0 | 0 | 1.134 | 46.48 | 514 | 46.47 | 515 |
| 90 | 0 | 0 | 0 | 1.134 | 46.56 | 514 | 46.55 | 514 |
| 100 | 0 | 0 | 0 | 1.134 | 46.62 | 513 | 46.62 | 513 |
| 110 | 0 | 0 | 0 | 1.134 | 46.67 | 513 | 46.67 | 513 |
| 120 | 0 | 0 | 0 | 1.134 | 46.72 | 512 | 46.72 | 512 |
| 130 | 0 | 0 | 0 | 1.134 | 46.77 | 512 | 46.77 | 512 |
| 167 | 0 | 0 | 0 | 1.134 | 46.95 | 510 | 46.95 | 510 |
| 212 | 0 | 0 | 0 | 1.134 | 47.16 | 508 | 47.16 | 508 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 74.39 | 1000 | 74.39 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 74.18 | 520 | 74.17 | 520 |
| 30 | 0 | 0 | 0 | 1.134 | 74.43 | 519 | 74.42 | 519 |
| 40 | 0 | 0 | 0 | 1.134 | 74.51 | 518 | 74.5 | 518 |
| 50 | 0 | 0 | 0 | 1.134 | 74.59 | 518 | 74.58 | 518 |
| 60 | 0 | 0 | 0 | 1.134 | 74.67 | 517 | 74.66 | 517 |
| 70 | 0 | 0 | 0 | 1.134 | 74.75 | 517 | 74.74 | 517 |
| 80 | 0 | 0 | 0 | 1.134 | 74.83 | 516 | 74.82 | 516 |
| 90 | 0 | 0 | 0 | 1.134 | 74.91 | 516 | 74.9 | 516 |
| 100 | 0 | 0 | 0 | 1.134 | 74.98 | 515 | 74.98 | 515 |
| 110 | 0 | 0 | 0 | 1.134 | 75.03 | 515 | 75.03 | 515 |
| 120 | 0 | 0 | 0 | 1.134 | 75.07 | 515 | 75.07 | 515 |
| 130 | 0 | 0 | 0 | 1.134 | 75.12 | 515 | 75.12 | 515 |
| 167 | 0 | 0 | 0 | 1.134 | 75.3 | 514 | 75.3 | 514 |
| 212 | 0 | 0 | 0 | 1.134 | 75.52 | 512 | 75.52 | 512 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 100.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 125.00 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 |
| 150.00 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-4 | 7-5 |
| 175.00 | 8-3 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-8 | 9-10 | 10-0 | 10-1 |
| 200.00 | 10-10 | 11-1 | 11-5 | 11-9 | 12-0 | 12-4 | 12-7 | 12-10 | 13-1 | 13-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 100.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 125.00 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 |
| 150.00 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-4 | 7-5 |
| 175.00 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 | 10-1 |
| 200.00 | 10-10 | 11-2 | 11-6 | 11-9 | 12-1 | 12-4 | 12-8 | 12-10 | 13-1 | 13-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 |
| 125.00 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 |
| 150.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 |
| 175.00 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 8-11 |
| 200.00 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 |
| 225.00 | 13-11 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 |
| 250.00 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 | 18-3 | 18-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 |
| 125.00 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 |
| 150.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 |
| 175.00 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 |
| 200.00 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 |
| 225.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 |
| 250.00 | 17-3 | 17-5 | 17-6 | 17-8 | 17-9 | 17-11 | 18-0 | 18-1 | 18-3 | 18-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-5 |
| 175.00 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 |
| 200.00 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 |
| 225.00 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 |
| 250.00 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-10 | 17-11 | 17-11 |
| 275.00 | 21-2 | 21-3 | 21-4 | 21-5 | 21-5 | 21-6 | 21-7 | 21-8 | 21-8 | 21-9 |
| 300.00 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-10 | 25-11 |
| 325.00 | 29-8 | 29-9 | 29-10 | 29-11 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-6 |
| 350.00 | 34-6 | 34-7 | 34-8 | 34-10 | 34-11 | 35-0 | 35-1 | 35-3 | 35-4 | 35-5 |
| 375.00 | 39-8 | 39-9 | 39-11 | 40-0 | 40-2 | 40-3 | 40-5 | 40-6 | 40-8 | 40-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-5 |
| 175.00 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 |
| 200.00 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 |
| 225.00 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 |
| 250.00 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-10 | 17-11 | 17-11 |
| 275.00 | 21-2 | 21-3 | 21-4 | 21-5 | 21-5 | 21-6 | 21-7 | 21-8 | 21-8 | 21-9 |
| 300.00 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-10 | 25-11 |
| 325.00 | 29-8 | 29-9 | 29-10 | 30-0 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-6 |
| 350.00 | 34-6 | 34-7 | 34-8 | 34-10 | 34-11 | 35-0 | 35-2 | 35-3 | 35-4 | 35-5 |
| 375.00 | 39-8 | 39-9 | 39-11 | 40-0 | 40-2 | 40-3 | 40-5 | 40-6 | 40-8 | 40-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-6 |
| 225.00 | 14-5 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 |
| 250.00 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 | 18-0 |
| 275.00 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-10 |
| 300.00 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 |
| 325.00 | 30-2 | 30-3 | 30-3 | 30-4 | 30-5 | 30-5 | 30-6 | 30-7 | 30-7 | 30-8 |
| 350.00 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-4 | 35-5 | 35-6 | 35-7 | 35-7 |
| 375.00 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 | 40-8 | 40-9 | 40-10 | 40-11 | 40-11 |
| 400.00 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-6 | 46-7 | 46-7 | 46-8 |
| 425.00 | 52-0 | 52-1 | 52-3 | 52-4 | 52-5 | 52-6 | 52-7 | 52-8 | 52-9 | 52-10 |
| 450.00 | 58-6 | 58-7 | 58-8 | 58-9 | 58-11 | 59-0 | 59-1 | 59-2 | 59-3 | 59-4 |
| 475.00 | 65-4 | 65-5 | 65-6 | 65-8 | 65-9 | 65-11 | 66-0 | 66-1 | 66-3 | 66-3 |
| 500.00 | 72-7 | 72-8 | 72-10 | 72-11 | 73-1 | 73-2 | 73-4 | 73-5 | 73-7 | 73-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-6 |
| 225.00 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 |
| 250.00 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 | 18-0 |
| 275.00 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-10 |
| 300.00 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 |
| 325.00 | 30-2 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 | 30-6 | 30-7 | 30-7 | 30-8 |
| 350.00 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-5 | 35-5 | 35-6 | 35-7 | 35-7 |
| 375.00 | 40-4 | 40-5 | 40-6 | 40-7 | 40-8 | 40-8 | 40-9 | 40-10 | 40-11 | 40-11 |
| 400.00 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-6 | 46-7 | 46-7 | 46-8 |
| 425.00 | 52-1 | 52-2 | 52-3 | 52-4 | 52-5 | 52-6 | 52-7 | 52-8 | 52-9 | 52-10 |
| 450.00 | 58-6 | 58-7 | 58-8 | 58-9 | 58-11 | 59-0 | 59-1 | 59-2 | 59-3 | 59-4 |
| 475.00 | 65-4 | 65-5 | 65-7 | 65-8 | 65-9 | 65-11 | 66-0 | 66-1 | 66-3 | 66-3 |
| 500.00 | 72-7 | 72-8 | 72-10 | 72-11 | 73-1 | 73-2 | 73-4 | 73-5 | 73-7 | 73-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

OH813.249

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-4 | 18-4 |
| 275.00 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 | 22-3 |
| 300.00 | 26-4 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-6 | 26-6 | 26-6 |
| 325.00 | 30-11 | 30-11 | 31-0 | 31-0 | 31-0 | 31-1 | 31-1 | 31-2 | 31-2 | 31-2 |
| 350.00 | 35-11 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 | 36-3 |
| 375.00 | 41-4 | 41-4 | 41-5 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 | 41-8 | 41-8 |
| 400.00 | 47-1 | 47-2 | 47-2 | 47-3 | 47-4 | 47-4 | 47-5 | 47-5 | 47-6 | 47-6 |
| 425.00 | 53-4 | 53-4 | 53-5 | 53-6 | 53-6 | 53-7 | 53-8 | 53-8 | 53-9 | 53-9 |
| 450.00 | 59-11 | 60-0 | 60-0 | 60-1 | 60-2 | 60-3 | 60-3 | 60-4 | 60-5 | 60-5 |
| 475.00 | 66-11 | 67-0 | 67-1 | 67-2 | 67-2 | 67-3 | 67-4 | 67-5 | 67-6 | 67-6 |
| 500.00 | 74-4 | 74-5 | 74-6 | 74-7 | 74-8 | 74-9 | 74-10 | 74-11 | 75-0 | 75-0 |
| 525.00 | 82-2 | 82-3 | 82-4 | 82-6 | 82-7 | 82-8 | 82-9 | 82-10 | 82-11 | 82-11 |
| 550.00 | 90-6 | 90-7 | 90-8 | 90-9 | 90-10 | 91-0 | 91-1 | 91-2 | 91-3 | 91-4 |
| 575.00 | 99-2 | 99-4 | 99-5 | 99-6 | 99-8 | 99-9 | 99-10 | 99-11 | 100-1 | 100-2 |
| 600.00 | 108-4 | 108-6 | 108-7 | 108-9 | 108-10 | 108-11 | 109-1 | 109-2 | 109-4 | 109-5 |
| 625.00 | 118-0 | 118-1 | 118-3 | 118-4 | 118-6 | 118-8 | 118-9 | 118-11 | 119-0 | 119-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-4 | 18-4 |
| 275.00 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 | 22-3 |
| 300.00 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-6 | 26-6 | 26-6 | 26-6 |
| 325.00 | 30-11 | 30-11 | 31-0 | 31-0 | 31-1 | 31-1 | 31-1 | 31-2 | 31-2 | 31-2 |
| 350.00 | 35-11 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 | 36-3 |
| 375.00 | 41-4 | 41-4 | 41-5 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 | 41-8 | 41-8 |
| 400.00 | 47-1 | 47-2 | 47-3 | 47-3 | 47-4 | 47-4 | 47-5 | 47-5 | 47-6 | 47-6 |
| 425.00 | 53-4 | 53-4 | 53-5 | 53-6 | 53-6 | 53-7 | 53-8 | 53-8 | 53-9 | 53-9 |
| 450.00 | 59-11 | 60-0 | 60-0 | 60-1 | 60-2 | 60-3 | 60-3 | 60-4 | 60-5 | 60-5 |
| 475.00 | 66-11 | 67-0 | 67-1 | 67-2 | 67-2 | 67-3 | 67-4 | 67-5 | 67-6 | 67-6 |
| 500.00 | 74-4 | 74-5 | 74-6 | 74-7 | 74-8 | 74-9 | 74-10 | 74-11 | 75-0 | 75-0 |
| 525.00 | 82-2 | 82-4 | 82-5 | 82-6 | 82-7 | 82-8 | 82-9 | 82-10 | 82-11 | 82-11 |
| 550.00 | 90-6 | 90-7 | 90-8 | 90-9 | 90-11 | 91-0 | 91-1 | 91-2 | 91-3 | 91-4 |
| 575.00 | 99-3 | 99-4 | 99-5 | 99-6 | 99-8 | 99-9 | 99-10 | 100-0 | 100-1 | 100-2 |
| 600.00 | 108-5 | 108-6 | 108-7 | 108-9 | 108-10 | 109-0 | 109-1 | 109-2 | 109-4 | 109-5 |
| 625.00 | 118-0 | 118-2 | 118-3 | 118-5 | 118-6 | 118-8 | 118-9 | 118-11 | 119-0 | 119-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 1.82 | 1500 | 1.82 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 1.48 | 959 | 1.46 | 969 |
| 30 | 0 | 0 | 0 | 1.134 | 1.85 | 767 | 1.83 | 775 |
| 40 | 0 | 0 | 0 | 1.134 | 1.96 | 724 | 1.94 | 732 |
| 50 | 0 | 0 | 0 | 1.134 | 2.07 | 687 | 2.05 | 694 |
| 60 | 0 | 0 | 0 | 1.134 | 2.17 | 655 | 2.15 | 662 |
| 70 | 0 | 0 | 0 | 1.134 | 2.26 | 627 | 2.24 | 634 |
| 80 | 0 | 0 | 0 | 1.134 | 2.36 | 602 | 2.33 | 608 |
| 90 | 0 | 0 | 0 | 1.134 | 2.45 | 580 | 2.42 | 586 |
| 100 | 0 | 0 | 0 | 1.134 | 2.51 | 565 | 2.51 | 566 |
| 110 | 0 | 0 | 0 | 1.134 | 2.58 | 551 | 2.58 | 551 |
| 120 | 0 | 0 | 0 | 1.134 | 2.63 | 541 | 2.63 | 541 |
| 130 | 0 | 0 | 0 | 1.134 | 2.67 | 532 | 2.67 | 532 |
| 167 | 0 | 0 | 0 | 1.134 | 2.84 | 501 | 2.84 | 501 |
| 212 | 0 | 0 | 0 | 1.134 | 3.03 | 469 | 3.03 | 469 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 7.32 | 1500 | 7.32 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 6.98 | 816 | 6.96 | 818 |
| 30 | 0 | 0 | 0 | 1.134 | 7.35 | 775 | 7.33 | 778 |
| 40 | 0 | 0 | 0 | 1.134 | 7.47 | 763 | 7.45 | 765 |
| 50 | 0 | 0 | 0 | 1.134 | 7.59 | 752 | 7.56 | 754 |
| 60 | 0 | 0 | 0 | 1.134 | 7.7 | 740 | 7.68 | 743 |
| 70 | 0 | 0 | 0 | 1.134 | 7.82 | 730 | 7.79 | 732 |
| 80 | 0 | 0 | 0 | 1.134 | 7.93 | 720 | 7.9 | 722 |
| 90 | 0 | 0 | 0 | 1.134 | 8.04 | 710 | 8.01 | 712 |
| 100 | 0 | 0 | 0 | 1.134 | 8.15 | 701 | 8.12 | 703 |
| 110 | 0 | 0 | 0 | 1.134 | 8.25 | 692 | 8.23 | 694 |
| 120 | 0 | 0 | 0 | 1.134 | 8.33 | 685 | 8.33 | 685 |
| 130 | 0 | 0 | 0 | 1.134 | 8.4 | 680 | 8.4 | 680 |
| 167 | 0 | 0 | 0 | 1.134 | 8.63 | 662 | 8.63 | 662 |
| 212 | 0 | 0 | 0 | 1.134 | 8.89 | 643 | 8.89 | 643 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 16.59 | 1500 | 16.59 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 16.25 | 794 | 16.23 | 795 |
| 30 | 0 | 0 | 0 | 1.134 | 16.62 | 777 | 16.6 | 778 |
| 40 | 0 | 0 | 0 | 1.134 | 16.74 | 772 | 16.72 | 773 |
| 50 | 0 | 0 | 0 | 1.134 | 16.86 | 766 | 16.84 | 767 |
| 60 | 0 | 0 | 0 | 1.134 | 16.98 | 761 | 16.95 | 762 |
| 70 | 0 | 0 | 0 | 1.134 | 17.1 | 756 | 17.07 | 757 |
| 80 | 0 | 0 | 0 | 1.134 | 17.21 | 751 | 17.19 | 752 |
| 90 | 0 | 0 | 0 | 1.134 | 17.33 | 746 | 17.3 | 747 |
| 100 | 0 | 0 | 0 | 1.134 | 17.44 | 741 | 17.42 | 742 |
| 110 | 0 | 0 | 0 | 1.134 | 17.56 | 737 | 17.53 | 738 |
| 120 | 0 | 0 | 0 | 1.134 | 17.64 | 733 | 17.64 | 733 |
| 130 | 0 | 0 | 0 | 1.134 | 17.74 | 729 | 17.74 | 729 |
| 167 | 0 | 0 | 0 | 1.134 | 17.99 | 719 | 17.99 | 719 |
| 212 | 0 | 0 | 0 | 1.134 | 18.29 | 708 | 18.29 | 708 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 29.79 | 1500 | 29.79 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 29.45 | 787 | 29.43 | 787 |
| 30 | 0 | 0 | 0 | 1.134 | 29.82 | 778 | 29.8 | 778 |
| 40 | 0 | 0 | 0 | 1.134 | 29.94 | 775 | 29.92 | 775 |
| 50 | 0 | 0 | 0 | 1.134 | 30.06 | 772 | 30.04 | 772 |
| 60 | 0 | 0 | 0 | 1.134 | 30.18 | 769 | 30.15 | 769 |
| 70 | 0 | 0 | 0 | 1.134 | 30.3 | 766 | 30.27 | 766 |
| 80 | 0 | 0 | 0 | 1.134 | 30.42 | 763 | 30.39 | 764 |
| 90 | 0 | 0 | 0 | 1.134 | 30.53 | 760 | 30.51 | 761 |
| 100 | 0 | 0 | 0 | 1.134 | 30.65 | 757 | 30.62 | 758 |
| 110 | 0 | 0 | 0 | 1.134 | 30.77 | 755 | 30.74 | 755 |
| 120 | 0 | 0 | 0 | 1.134 | 30.87 | 752 | 30.85 | 753 |
| 130 | 0 | 0 | 0 | 1.134 | 30.97 | 750 | 30.97 | 750 |
| 167 | 0 | 0 | 0 | 1.134 | 31.23 | 744 | 31.23 | 744 |
| 212 | 0 | 0 | 0 | 1.134 | 31.54 | 737 | 31.54 | 737 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 47.16 | 1500 | 47.16 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 46.82 | 783 | 46.8 | 784 |
| 30 | 0 | 0 | 0 | 1.134 | 47.19 | 778 | 47.17 | 778 |
| 40 | 0 | 0 | 0 | 1.134 | 47.31 | 776 | 47.29 | 776 |
| 50 | 0 | 0 | 0 | 1.134 | 47.43 | 774 | 47.41 | 774 |
| 60 | 0 | 0 | 0 | 1.134 | 47.55 | 772 | 47.53 | 773 |
| 70 | 0 | 0 | 0 | 1.134 | 47.67 | 771 | 47.64 | 771 |
| 80 | 0 | 0 | 0 | 1.134 | 47.79 | 769 | 47.76 | 769 |
| 90 | 0 | 0 | 0 | 1.134 | 47.91 | 767 | 47.88 | 767 |
| 100 | 0 | 0 | 0 | 1.134 | 48.03 | 765 | 48 | 766 |
| 110 | 0 | 0 | 0 | 1.134 | 48.14 | 763 | 48.11 | 764 |
| 120 | 0 | 0 | 0 | 1.134 | 48.25 | 762 | 48.23 | 762 |
| 130 | 0 | 0 | 0 | 1.134 | 48.35 | 760 | 48.35 | 760 |
| 167 | 0 | 0 | 0 | 1.134 | 48.62 | 757 | 48.62 | 757 |
| 212 | 0 | 0 | 0 | 1.134 | 48.94 | 752 | 48.94 | 752 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 125.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 |
| 150.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 |
| 175.00 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 |
| 200.00 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 | 10-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-5 |
| 100.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 125.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 | 4-0 |
| 150.00 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 | 5-10 |
| 175.00 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 | 7-11 |
| 200.00 | 6-11 | 7-5 | 7-10 | 8-3 | 8-8 | 9-1 | 9-5 | 9-10 | 10-1 | 10-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 |
| 125.00 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 |
| 150.00 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 |
| 175.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 200.00 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 |
| 225.00 | 9-2 | 9-3 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 |
| 250.00 | 11-3 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 |
| 125.00 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 |
| 150.00 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 |
| 175.00 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 200.00 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 |
| 225.00 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-4 | 10-5 |
| 250.00 | 11-4 | 11-6 | 11-8 | 11-10 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.255

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 175.00 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 |
| 200.00 | 7-4 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 |
| 225.00 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 |
| 250.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 275.00 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-9 |
| 300.00 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 |
| 325.00 | 19-4 | 19-6 | 19-8 | 19-9 | 19-11 | 20-1 | 20-2 | 20-4 | 20-5 | 20-7 |
| 350.00 | 22-6 | 22-8 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 | 23-11 |
| 375.00 | 25-10 | 26-0 | 26-2 | 26-4 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 | 27-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 175.00 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 |
| 200.00 | 7-4 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 |
| 225.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-10 |
| 250.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 275.00 | 13-10 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 |
| 300.00 | 16-6 | 16-7 | 16-9 | 16-10 | 17-0 | 17-1 | 17-3 | 17-4 | 17-5 | 17-7 |
| 325.00 | 19-5 | 19-6 | 19-8 | 19-10 | 19-11 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 |
| 350.00 | 22-6 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-7 | 23-9 | 23-11 |
| 375.00 | 25-10 | 26-0 | 26-3 | 26-5 | 26-7 | 26-9 | 27-0 | 27-2 | 27-4 | 27-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 |
| 225.00 | 9-4 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 |
| 250.00 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 |
| 275.00 | 14-0 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 |
| 300.00 | 16-8 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 | 17-3 |
| 325.00 | 19-7 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 |
| 350.00 | 22-8 | 22-9 | 22-10 | 22-11 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 |
| 375.00 | 26-1 | 26-2 | 26-3 | 26-4 | 26-6 | 26-7 | 26-8 | 26-9 | 26-11 | 27-0 |
| 400.00 | 29-8 | 29-10 | 29-11 | 30-0 | 30-2 | 30-3 | 30-5 | 30-6 | 30-7 | 30-9 |
| 425.00 | 33-6 | 33-8 | 33-10 | 33-11 | 34-1 | 34-2 | 34-4 | 34-6 | 34-7 | 34-9 |
| 450.00 | 37-8 | 37-9 | 37-11 | 38-1 | 38-3 | 38-5 | 38-6 | 38-8 | 38-10 | 39-0 |
| 475.00 | 42-0 | 42-2 | 42-4 | 42-6 | 42-8 | 42-10 | 43-0 | 43-2 | 43-4 | 43-6 |
| 500.00 | 46-7 | 46-9 | 46-11 | 47-2 | 47-4 | 47-6 | 47-8 | 47-10 | 48-1 | 48-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 |
| 225.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 |
| 250.00 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 12-0 |
| 275.00 | 14-0 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 |
| 300.00 | 16-8 | 16-9 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 |
| 325.00 | 19-7 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 |
| 350.00 | 22-8 | 22-9 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 |
| 375.00 | 26-1 | 26-2 | 26-3 | 26-5 | 26-6 | 26-7 | 26-8 | 26-10 | 26-11 | 27-0 |
| 400.00 | 29-8 | 29-10 | 29-11 | 30-1 | 30-2 | 30-4 | 30-5 | 30-6 | 30-8 | 30-9 |
| 425.00 | 33-7 | 33-8 | 33-10 | 34-0 | 34-1 | 34-3 | 34-4 | 34-6 | 34-8 | 34-9 |
| 450.00 | 37-8 | 37-10 | 38-0 | 38-1 | 38-3 | 38-5 | 38-7 | 38-9 | 38-10 | 39-0 |
| 475.00 | 42-0 | 42-2 | 42-4 | 42-6 | 42-8 | 42-10 | 43-0 | 43-2 | 43-4 | 43-6 |
| 500.00 | 46-7 | 46-9 | 47-0 | 47-2 | 47-4 | 47-6 | 47-9 | 47-11 | 48-1 | 48-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 |
| 275.00 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 |
| 300.00 | 16-10 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 |
| 325.00 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 | 20-2 | 20-2 |
| 350.00 | 22-11 | 23-0 | 23-0 | 23-1 | 23-2 | 23-2 | 23-3 | 23-4 | 23-5 | 23-5 |
| 375.00 | 26-4 | 26-5 | 26-6 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-10 | 26-11 |
| 400.00 | 30-0 | 30-1 | 30-2 | 30-3 | 30-3 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 |
| 425.00 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-7 | 34-8 |
| 450.00 | 38-0 | 38-1 | 38-3 | 38-4 | 38-5 | 38-6 | 38-7 | 38-8 | 38-9 | 38-11 |
| 475.00 | 42-5 | 42-6 | 42-8 | 42-9 | 42-10 | 42-11 | 43-1 | 43-2 | 43-3 | 43-4 |
| 500.00 | 47-1 | 47-2 | 47-3 | 47-5 | 47-6 | 47-8 | 47-9 | 47-11 | 48-0 | 48-1 |
| 525.00 | 51-11 | 52-1 | 52-2 | 52-4 | 52-6 | 52-7 | 52-9 | 52-10 | 53-0 | 53-1 |
| 550.00 | 57-1 | 57-3 | 57-4 | 57-6 | 57-8 | 57-10 | 57-11 | 58-1 | 58-3 | 58-4 |
| 575.00 | 62-5 | 62-7 | 62-9 | 62-11 | 63-1 | 63-3 | 63-5 | 63-7 | 63-9 | 63-11 |
| 600.00 | 68-1 | 68-3 | 68-5 | 68-7 | 68-9 | 69-0 | 69-2 | 69-4 | 69-6 | 69-8 |
| 625.00 | 74-0 | 74-2 | 74-4 | 74-7 | 74-9 | 74-11 | 75-2 | 75-4 | 75-6 | 75-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 |
| 275.00 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 |
| 300.00 | 16-10 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 |
| 325.00 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-1 | 20-1 | 20-2 | 20-2 |
| 350.00 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 | 23-5 | 23-5 |
| 375.00 | 26-4 | 26-5 | 26-6 | 26-7 | 26-7 | 26-8 | 26-9 | 26-10 | 26-10 | 26-11 |
| 400.00 | 30-0 | 30-1 | 30-2 | 30-3 | 30-4 | 30-5 | 30-5 | 30-6 | 30-7 | 30-8 |
| 425.00 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-7 | 34-8 |
| 450.00 | 38-1 | 38-2 | 38-3 | 38-4 | 38-5 | 38-6 | 38-7 | 38-9 | 38-10 | 38-11 |
| 475.00 | 42-5 | 42-6 | 42-8 | 42-9 | 42-10 | 43-0 | 43-1 | 43-2 | 43-4 | 43-5 |
| 500.00 | 47-1 | 47-2 | 47-4 | 47-5 | 47-7 | 47-8 | 47-9 | 47-11 | 48-0 | 48-2 |
| 525.00 | 51-11 | 52-1 | 52-3 | 52-4 | 52-6 | 52-7 | 52-9 | 52-11 | 53-0 | 53-2 |
| 550.00 | 57-1 | 57-3 | 57-5 | 57-6 | 57-8 | 57-10 | 58-0 | 58-1 | 58-3 | 58-5 |
| 575.00 | 62-6 | 62-8 | 62-10 | 63-0 | 63-1 | 63-3 | 63-5 | 63-7 | 63-9 | 63-11 |
| 600.00 | 68-1 | 68-4 | 68-6 | 68-8 | 68-10 | 69-0 | 69-2 | 69-4 | 69-6 | 69-8 |
| 625.00 | 74-0 | 74-3 | 74-5 | 74-7 | 74-9 | 75-0 | 75-2 | 75-4 | 75-7 | 75-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 1.37 | 2000 | 1.37 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 0.89 | 1589 | 0.88 | 1615 |
| 30 | 0 | 0 | 0 | 1.134 | 1.37 | 1039 | 1.33 | 1066 |
| 40 | 0 | 0 | 0 | 1.134 | 1.5 | 943 | 1.47 | 967 |
| 50 | 0 | 0 | 0 | 1.134 | 1.63 | 869 | 1.6 | 889 |
| 60 | 0 | 0 | 0 | 1.134 | 1.76 | 808 | 1.72 | 827 |
| 70 | 0 | 0 | 0 | 1.134 | 1.87 | 759 | 1.83 | 775 |
| 80 | 0 | 0 | 0 | 1.134 | 1.98 | 717 | 1.94 | 731 |
| 90 | 0 | 0 | 0 | 1.134 | 2.09 | 681 | 2.05 | 694 |
| 100 | 0 | 0 | 0 | 1.134 | 2.19 | 650 | 2.15 | 662 |
| 110 | 0 | 0 | 0 | 1.134 | 2.25 | 632 | 2.24 | 633 |
| 120 | 0 | 0 | 0 | 1.134 | 2.31 | 614 | 2.31 | 614 |
| 130 | 0 | 0 | 0 | 1.134 | 2.36 | 601 | 2.36 | 601 |
| 167 | 0 | 0 | 0 | 1.134 | 2.54 | 559 | 2.54 | 559 |
| 212 | 0 | 0 | 0 | 1.134 | 2.75 | 517 | 2.75 | 517 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 5.48 | 2000 | 5.48 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 4.99 | 1139 | 4.95 | 1147 |
| 30 | 0 | 0 | 0 | 1.134 | 5.48 | 1038 | 5.44 | 1045 |
| 40 | 0 | 0 | 0 | 1.134 | 5.63 | 1010 | 5.59 | 1017 |
| 50 | 0 | 0 | 0 | 1.134 | 5.78 | 984 | 5.74 | 991 |
| 60 | 0 | 0 | 0 | 1.134 | 5.93 | 959 | 5.89 | 966 |
| 70 | 0 | 0 | 0 | 1.134 | 6.08 | 937 | 6.03 | 943 |
| 80 | 0 | 0 | 0 | 1.134 | 6.22 | 916 | 6.17 | 922 |
| 90 | 0 | 0 | 0 | 1.134 | 6.35 | 896 | 6.31 | 902 |
| 100 | 0 | 0 | 0 | 1.134 | 6.49 | 877 | 6.44 | 884 |
| 110 | 0 | 0 | 0 | 1.134 | 6.62 | 860 | 6.57 | 866 |
| 120 | 0 | 0 | 0 | 1.134 | 6.75 | 844 | 6.7 | 850 |
| 130 | 0 | 0 | 0 | 1.134 | 6.85 | 832 | 6.83 | 834 |
| 167 | 0 | 0 | 0 | 1.134 | 7.14 | 798 | 7.14 | 798 |
| 212 | 0 | 0 | 0 | 1.134 | 7.46 | 765 | 7.46 | 765 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 12.38 | 2000 | 12.38 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 11.89 | 1079 | 11.85 | 1083 |
| 30 | 0 | 0 | 0 | 1.134 | 12.38 | 1038 | 12.34 | 1041 |
| 40 | 0 | 0 | 0 | 1.134 | 12.54 | 1025 | 12.49 | 1028 |
| 50 | 0 | 0 | 0 | 1.134 | 12.69 | 1012 | 12.65 | 1016 |
| 60 | 0 | 0 | 0 | 1.134 | 12.85 | 1000 | 12.8 | 1004 |
| 70 | 0 | 0 | 0 | 1.134 | 13 | 989 | 12.95 | 992 |
| 80 | 0 | 0 | 0 | 1.134 | 13.15 | 977 | 13.1 | 981 |
| 90 | 0 | 0 | 0 | 1.134 | 13.3 | 967 | 13.25 | 970 |
| 100 | 0 | 0 | 0 | 1.134 | 13.45 | 956 | 13.4 | 960 |
| 110 | 0 | 0 | 0 | 1.134 | 13.6 | 946 | 13.54 | 950 |
| 120 | 0 | 0 | 0 | 1.134 | 13.74 | 936 | 13.69 | 940 |
| 130 | 0 | 0 | 0 | 1.134 | 13.88 | 927 | 13.83 | 930 |
| 167 | 0 | 0 | 0 | 1.134 | 14.25 | 903 | 14.25 | 903 |
| 212 | 0 | 0 | 0 | 1.134 | 14.62 | 881 | 14.62 | 881 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 22.13 | 1999 | 22.12 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 21.64 | 1060 | 21.6 | 1062 |
| 30 | 0 | 0 | 0 | 1.134 | 22.13 | 1037 | 22.08 | 1040 |
| 40 | 0 | 0 | 0 | 1.134 | 22.29 | 1030 | 22.24 | 1032 |
| 50 | 0 | 0 | 0 | 1.134 | 22.45 | 1023 | 22.4 | 1025 |
| 60 | 0 | 0 | 0 | 1.134 | 22.61 | 1016 | 22.55 | 1018 |
| 70 | 0 | 0 | 0 | 1.134 | 22.76 | 1009 | 22.71 | 1012 |
| 80 | 0 | 0 | 0 | 1.134 | 22.92 | 1003 | 22.86 | 1005 |
| 90 | 0 | 0 | 0 | 1.134 | 23.07 | 996 | 23.02 | 998 |
| 100 | 0 | 0 | 0 | 1.134 | 23.22 | 990 | 23.17 | 992 |
| 110 | 0 | 0 | 0 | 1.134 | 23.38 | 983 | 23.32 | 986 |
| 120 | 0 | 0 | 0 | 1.134 | 23.53 | 977 | 23.47 | 980 |
| 130 | 0 | 0 | 0 | 1.134 | 23.68 | 971 | 23.62 | 974 |
| 167 | 0 | 0 | 0 | 1.134 | 24.1 | 955 | 24.1 | 955 |
| 212 | 0 | 0 | 0 | 1.134 | 24.5 | 940 | 24.5 | 940 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 34.82 | 1999 | 34.81 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 34.34 | 1052 | 34.29 | 1053 |
| 30 | 0 | 0 | 0 | 1.134 | 34.82 | 1037 | 34.77 | 1039 |
| 40 | 0 | 0 | 0 | 1.134 | 34.98 | 1033 | 34.93 | 1034 |
| 50 | 0 | 0 | 0 | 1.134 | 35.14 | 1028 | 35.09 | 1030 |
| 60 | 0 | 0 | 0 | 1.134 | 35.3 | 1024 | 35.25 | 1025 |
| 70 | 0 | 0 | 0 | 1.134 | 35.46 | 1020 | 35.4 | 1021 |
| 80 | 0 | 0 | 0 | 1.134 | 35.62 | 1015 | 35.56 | 1017 |
| 90 | 0 | 0 | 0 | 1.134 | 35.77 | 1011 | 35.72 | 1013 |
| 100 | 0 | 0 | 0 | 1.134 | 35.93 | 1007 | 35.87 | 1008 |
| 110 | 0 | 0 | 0 | 1.134 | 36.08 | 1003 | 36.02 | 1004 |
| 120 | 0 | 0 | 0 | 1.134 | 36.24 | 998 | 36.18 | 1000 |
| 130 | 0 | 0 | 0 | 1.134 | 36.39 | 994 | 36.33 | 996 |
| 167 | 0 | 0 | 0 | 1.134 | 36.85 | 983 | 36.85 | 983 |
| 212 | 0 | 0 | 0 | 1.134 | 37.26 | 972 | 37.26 | 972 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100.00 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 |
| 125.00 | 1-10 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 150.00 | 2-8 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 |
| 175.00 | 3-8 | 4-1 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 |
| 200.00 | 4-9 | 5-4 | 5-10 | 6-5 | 6-11 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 |
| 100.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 |
| 125.00 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 |
| 150.00 | 2-9 | 3-1 | 3-5 | 3-8 | 3-11 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 |
| 175.00 | 3-9 | 4-2 | 4-7 | 5-0 | 5-5 | 5-9 | 6-1 | 6-5 | 6-8 | 6-11 |
| 200.00 | 4-10 | 5-6 | 6-0 | 6-6 | 7-0 | 7-6 | 7-11 | 8-4 | 8-9 | 9-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 |
| 125.00 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 |
| 150.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 |
| 175.00 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 |
| 200.00 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 |
| 225.00 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 |
| 250.00 | 8-3 | 8-6 | 8-9 | 9-0 | 9-2 | 9-5 | 9-8 | 9-10 | 10-1 | 10-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 |
| 125.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 |
| 150.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 175.00 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 |
| 200.00 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 |
| 225.00 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-1 | 8-3 | 8-5 |
| 250.00 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 | 9-6 | 9-9 | 9-11 | 10-2 | 10-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 |
| 175.00 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 |
| 200.00 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 |
| 225.00 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 |
| 250.00 | 8-5 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 |
| 275.00 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 |
| 300.00 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 |
| 325.00 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 |
| 350.00 | 16-7 | 16-10 | 17-0 | 17-3 | 17-5 | 17-8 | 17-10 | 18-1 | 18-3 | 18-5 |
| 375.00 | 19-1 | 19-4 | 19-7 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 |
| 175.00 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 200.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 |
| 225.00 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 250.00 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-5 |
| 275.00 | 10-3 | 10-5 | 10-6 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 |
| 300.00 | 12-3 | 12-5 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 |
| 325.00 | 14-4 | 14-6 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 16-0 |
| 350.00 | 16-8 | 16-10 | 17-1 | 17-4 | 17-6 | 17-9 | 17-11 | 18-1 | 18-4 | 18-6 |
| 375.00 | 19-1 | 19-4 | 19-7 | 19-10 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 |
| 225.00 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 |
| 250.00 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 |
| 275.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 11-0 |
| 300.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 |
| 325.00 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 |
| 350.00 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 |
| 375.00 | 19-3 | 19-5 | 19-6 | 19-8 | 19-10 | 19-11 | 20-1 | 20-3 | 20-4 | 20-6 |
| 400.00 | 21-11 | 22-1 | 22-3 | 22-5 | 22-7 | 22-9 | 22-10 | 23-0 | 23-2 | 23-4 |
| 425.00 | 24-9 | 24-11 | 25-1 | 25-4 | 25-6 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 |
| 450.00 | 27-9 | 28-0 | 28-2 | 28-5 | 28-7 | 28-9 | 29-0 | 29-2 | 29-4 | 29-7 |
| 475.00 | 31-0 | 31-2 | 31-5 | 31-8 | 31-10 | 32-1 | 32-4 | 32-6 | 32-9 | 32-11 |
| 500.00 | 34-4 | 34-7 | 34-10 | 35-1 | 35-4 | 35-7 | 35-10 | 36-1 | 36-3 | 36-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 |
| 225.00 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 |
| 250.00 | 8-7 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 |
| 275.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 |
| 300.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 |
| 325.00 | 14-6 | 14-7 | 14-8 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-4 | 15-5 |
| 350.00 | 16-10 | 16-11 | 17-1 | 17-2 | 17-3 | 17-5 | 17-6 | 17-8 | 17-9 | 17-11 |
| 375.00 | 19-4 | 19-5 | 19-7 | 19-9 | 19-10 | 20-0 | 20-2 | 20-3 | 20-5 | 20-6 |
| 400.00 | 22-0 | 22-2 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 |
| 425.00 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 |
| 450.00 | 27-10 | 28-0 | 28-3 | 28-5 | 28-8 | 28-10 | 29-0 | 29-3 | 29-5 | 29-7 |
| 475.00 | 31-0 | 31-3 | 31-6 | 31-9 | 31-11 | 32-2 | 32-4 | 32-7 | 32-10 | 33-0 |
| 500.00 | 34-5 | 34-8 | 34-11 | 35-2 | 35-5 | 35-8 | 35-11 | 36-2 | 36-5 | 36-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 |
| 275.00 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-10 |
| 300.00 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 |
| 325.00 | 14-7 | 14-8 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 |
| 350.00 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 |
| 375.00 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 |
| 400.00 | 22-1 | 22-2 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-10 | 22-11 | 23-0 |
| 425.00 | 25-0 | 25-1 | 25-2 | 25-4 | 25-5 | 25-6 | 25-8 | 25-9 | 25-10 | 26-0 |
| 450.00 | 28-0 | 28-2 | 28-3 | 28-5 | 28-6 | 28-8 | 28-9 | 28-11 | 29-0 | 29-2 |
| 475.00 | 31-3 | 31-4 | 31-6 | 31-8 | 31-9 | 31-11 | 32-1 | 32-3 | 32-4 | 32-6 |
| 500.00 | 34-7 | 34-9 | 34-11 | 35-1 | 35-3 | 35-5 | 35-7 | 35-9 | 35-10 | 36-0 |
| 525.00 | 38-2 | 38-4 | 38-6 | 38-9 | 38-11 | 39-1 | 39-3 | 39-5 | 39-7 | 39-9 |
| 550.00 | 41-11 | 42-2 | 42-4 | 42-6 | 42-8 | 42-11 | 43-1 | 43-3 | 43-6 | 43-8 |
| 575.00 | 45-10 | 46-1 | 46-4 | 46-6 | 46-9 | 46-11 | 47-2 | 47-4 | 47-6 | 47-9 |
| 600.00 | 50-0 | 50-3 | 50-5 | 50-8 | 50-11 | 51-2 | 51-4 | 51-7 | 51-10 | 52-0 |
| 625.00 | 54-3 | 54-6 | 54-9 | 55-0 | 55-3 | 55-6 | 55-9 | 56-0 | 56-3 | 56-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 |
| 275.00 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 |
| 300.00 | 12-5 | 12-6 | 12-7 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 12-11 |
| 325.00 | 14-7 | 14-8 | 14-9 | 14-10 | 14-10 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 |
| 350.00 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-7 |
| 375.00 | 19-5 | 19-6 | 19-7 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 |
| 400.00 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 |
| 425.00 | 25-0 | 25-1 | 25-3 | 25-4 | 25-6 | 25-7 | 25-8 | 25-10 | 25-11 | 26-0 |
| 450.00 | 28-1 | 28-2 | 28-4 | 28-5 | 28-7 | 28-8 | 28-10 | 28-11 | 29-1 | 29-2 |
| 475.00 | 31-3 | 31-5 | 31-7 | 31-8 | 31-10 | 32-0 | 32-1 | 32-3 | 32-5 | 32-7 |
| 500.00 | 34-8 | 34-10 | 35-0 | 35-2 | 35-4 | 35-6 | 35-7 | 35-9 | 35-11 | 36-1 |
| 525.00 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-1 | 39-4 | 39-6 | 39-8 | 39-10 |
| 550.00 | 42-0 | 42-2 | 42-5 | 42-7 | 42-9 | 43-0 | 43-2 | 43-4 | 43-6 | 43-9 |
| 575.00 | 45-11 | 46-2 | 46-4 | 46-7 | 46-9 | 47-0 | 47-2 | 47-5 | 47-7 | 47-10 |
| 600.00 | 50-1 | 50-3 | 50-6 | 50-9 | 51-0 | 51-3 | 51-5 | 51-8 | 51-11 | 52-1 |
| 625.00 | 54-4 | 54-7 | 54-10 | 55-1 | 55-4 | 55-7 | 55-10 | 56-1 | 56-4 | 56-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 1.09 | 2500 | 1.09 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 0.57 | 2497 | 0.57 | 2497 |
| 30 | 0 | 0 | 0 | 1.134 | 1.05 | 1350 | 1 | 1415 |
| 40 | 0 | 0 | 0 | 1.134 | 1.21 | 1173 | 1.16 | 1228 |
| 50 | 0 | 0 | 0 | 1.134 | 1.36 | 1044 | 1.3 | 1090 |
| 60 | 0 | 0 | 0 | 1.134 | 1.5 | 948 | 1.44 | 985 |
| 70 | 0 | 0 | 0 | 1.134 | 1.63 | 872 | 1.57 | 904 |
| 80 | 0 | 0 | 0 | 1.134 | 1.75 | 811 | 1.69 | 838 |
| 90 | 0 | 0 | 0 | 1.134 | 1.87 | 761 | 1.81 | 785 |
| 100 | 0 | 0 | 0 | 1.134 | 1.97 | 719 | 1.92 | 739 |
| 110 | 0 | 0 | 0 | 1.134 | 2.06 | 689 | 2.03 | 701 |
| 120 | 0 | 0 | 0 | 1.134 | 2.13 | 668 | 2.13 | 668 |
| 130 | 0 | 0 | 0 | 1.134 | 2.18 | 652 | 2.18 | 652 |
| 167 | 0 | 0 | 0 | 1.134 | 2.37 | 600 | 2.37 | 600 |
| 212 | 0 | 0 | 0 | 1.134 | 2.59 | 549 | 2.59 | 549 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 4.41 | 2483 | 4.38 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 3.76 | 1511 | 3.67 | 1547 |
| 30 | 0 | 0 | 0 | 1.134 | 4.36 | 1302 | 4.27 | 1331 |
| 40 | 0 | 0 | 0 | 1.134 | 4.55 | 1249 | 4.45 | 1275 |
| 50 | 0 | 0 | 0 | 1.134 | 4.73 | 1201 | 4.64 | 1226 |
| 60 | 0 | 0 | 0 | 1.134 | 4.91 | 1159 | 4.81 | 1181 |
| 70 | 0 | 0 | 0 | 1.134 | 5.08 | 1120 | 4.98 | 1141 |
| 80 | 0 | 0 | 0 | 1.134 | 5.24 | 1085 | 5.14 | 1105 |
| 90 | 0 | 0 | 0 | 1.134 | 5.4 | 1053 | 5.31 | 1072 |
| 100 | 0 | 0 | 0 | 1.134 | 5.56 | 1023 | 5.46 | 1041 |
| 110 | 0 | 0 | 0 | 1.134 | 5.71 | 996 | 5.61 | 1013 |
| 120 | 0 | 0 | 0 | 1.134 | 5.86 | 971 | 5.76 | 987 |
| 130 | 0 | 0 | 0 | 1.134 | 6 | 948 | 5.91 | 963 |
| 167 | 0 | 0 | 0 | 1.134 | 6.33 | 899 | 6.33 | 899 |
| 212 | 0 | 0 | 0 | 1.134 | 6.67 | 854 | 6.67 | 854 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 9.93 | 2486 | 9.88 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 9.28 | 1380 | 9.16 | 1398 |
| 30 | 0 | 0 | 0 | 1.134 | 9.88 | 1296 | 9.76 | 1312 |
| 40 | 0 | 0 | 0 | 1.134 | 10.08 | 1272 | 9.96 | 1287 |
| 50 | 0 | 0 | 0 | 1.134 | 10.27 | 1248 | 10.15 | 1263 |
| 60 | 0 | 0 | 0 | 1.134 | 10.46 | 1226 | 10.33 | 1240 |
| 70 | 0 | 0 | 0 | 1.134 | 10.64 | 1205 | 10.52 | 1219 |
| 80 | 0 | 0 | 0 | 1.134 | 10.82 | 1185 | 10.7 | 1198 |
| 90 | 0 | 0 | 0 | 1.134 | 11 | 1166 | 10.88 | 1179 |
| 100 | 0 | 0 | 0 | 1.134 | 11.18 | 1148 | 11.05 | 1160 |
| 110 | 0 | 0 | 0 | 1.134 | 11.35 | 1130 | 11.23 | 1143 |
| 120 | 0 | 0 | 0 | 1.134 | 11.52 | 1114 | 11.4 | 1126 |
| 130 | 0 | 0 | 0 | 1.134 | 11.69 | 1098 | 11.57 | 1110 |
| 167 | 0 | 0 | 0 | 1.134 | 12.18 | 1055 | 12.17 | 1055 |
| 212 | 0 | 0 | 0 | 1.134 | 12.59 | 1020 | 12.59 | 1020 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 17.69 | 2491 | 17.62 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 17.03 | 1341 | 16.9 | 1351 |
| 30 | 0 | 0 | 0 | 1.134 | 17.64 | 1296 | 17.5 | 1306 |
| 40 | 0 | 0 | 0 | 1.134 | 17.84 | 1282 | 17.7 | 1291 |
| 50 | 0 | 0 | 0 | 1.134 | 18.03 | 1268 | 17.9 | 1278 |
| 60 | 0 | 0 | 0 | 1.134 | 18.22 | 1255 | 18.09 | 1264 |
| 70 | 0 | 0 | 0 | 1.134 | 18.42 | 1242 | 18.28 | 1251 |
| 80 | 0 | 0 | 0 | 1.134 | 18.6 | 1230 | 18.47 | 1239 |
| 90 | 0 | 0 | 0 | 1.134 | 18.79 | 1218 | 18.65 | 1226 |
| 100 | 0 | 0 | 0 | 1.134 | 18.98 | 1206 | 18.84 | 1215 |
| 110 | 0 | 0 | 0 | 1.134 | 19.16 | 1194 | 19.02 | 1203 |
| 120 | 0 | 0 | 0 | 1.134 | 19.35 | 1183 | 19.2 | 1192 |
| 130 | 0 | 0 | 0 | 1.134 | 19.53 | 1173 | 19.38 | 1181 |
| 167 | 0 | 0 | 0 | 1.134 | 20.11 | 1139 | 20.04 | 1143 |
| 212 | 0 | 0 | 0 | 1.134 | 20.57 | 1114 | 20.57 | 1114 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 27.73 | 2494 | 27.66 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 27.07 | 1324 | 26.94 | 1331 |
| 30 | 0 | 0 | 0 | 1.134 | 27.68 | 1296 | 27.54 | 1302 |
| 40 | 0 | 0 | 0 | 1.134 | 27.88 | 1287 | 27.74 | 1293 |
| 50 | 0 | 0 | 0 | 1.134 | 28.07 | 1278 | 27.93 | 1285 |
| 60 | 0 | 0 | 0 | 1.134 | 28.27 | 1270 | 28.13 | 1276 |
| 70 | 0 | 0 | 0 | 1.134 | 28.46 | 1261 | 28.32 | 1267 |
| 80 | 0 | 0 | 0 | 1.134 | 28.66 | 1253 | 28.51 | 1259 |
| 90 | 0 | 0 | 0 | 1.134 | 28.85 | 1245 | 28.7 | 1251 |
| 100 | 0 | 0 | 0 | 1.134 | 29.04 | 1237 | 28.89 | 1243 |
| 110 | 0 | 0 | 0 | 1.134 | 29.23 | 1229 | 29.08 | 1235 |
| 120 | 0 | 0 | 0 | 1.134 | 29.42 | 1221 | 29.27 | 1227 |
| 130 | 0 | 0 | 0 | 1.134 | 29.61 | 1214 | 29.46 | 1220 |
| 167 | 0 | 0 | 0 | 1.134 | 30.26 | 1188 | 30.14 | 1193 |
| 212 | 0 | 0 | 0 | 1.134 | 30.75 | 1170 | 30.75 | 1170 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 |
| 100.00 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 125.00 | 1-4 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-0 | 3-2 |
| 150.00 | 1-11 | 2-3 | 2-7 | 2-11 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 |
| 175.00 | 2-7 | 3-1 | 3-6 | 4-0 | 4-5 | 4-10 | 5-2 | 5-7 | 5-11 | 6-3 |
| 200.00 | 3-5 | 4-0 | 4-7 | 5-3 | 5-9 | 6-3 | 6-9 | 7-3 | 7-8 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100.00 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 |
| 125.00 | 1-5 | 1-8 | 1-11 | 2-1 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 150.00 | 2-0 | 2-4 | 2-9 | 3-1 | 3-4 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 |
| 175.00 | 2-8 | 3-3 | 3-8 | 4-2 | 4-7 | 5-0 | 5-4 | 5-9 | 6-1 | 6-4 |
| 200.00 | 3-6 | 4-2 | 4-10 | 5-5 | 6-0 | 6-6 | 7-0 | 7-6 | 7-11 | 8-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 |
| 150.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 175.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 |
| 200.00 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 |
| 225.00 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 |
| 250.00 | 6-4 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 8-1 | 8-4 | 8-6 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 125.00 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 |
| 150.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 |
| 175.00 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 |
| 200.00 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 |
| 225.00 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 |
| 250.00 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 |
| 175.00 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 |
| 200.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 |
| 225.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 |
| 250.00 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 |
| 275.00 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 |
| 300.00 | 9-7 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 | 11-3 |
| 325.00 | 11-3 | 11-6 | 11-8 | 11-11 | 12-2 | 12-4 | 12-7 | 12-9 | 13-0 | 13-2 |
| 350.00 | 13-0 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-7 | 14-10 | 15-1 | 15-4 |
| 375.00 | 14-11 | 15-3 | 15-7 | 15-10 | 16-2 | 16-5 | 16-9 | 17-0 | 17-3 | 17-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 |
| 175.00 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 |
| 200.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 |
| 225.00 | 5-5 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-5 |
| 250.00 | 6-9 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 |
| 275.00 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-6 |
| 300.00 | 9-8 | 9-11 | 10-1 | 10-3 | 10-5 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 |
| 325.00 | 11-4 | 11-7 | 11-10 | 12-1 | 12-3 | 12-6 | 12-8 | 12-11 | 13-1 | 13-4 |
| 350.00 | 13-2 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 |
| 375.00 | 15-2 | 15-5 | 15-9 | 16-1 | 16-4 | 16-8 | 16-11 | 17-3 | 17-6 | 17-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.272

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 |
| 225.00 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 |
| 250.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-5 |
| 275.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 |
| 300.00 | 9-9 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-4 | 10-6 | 10-7 | 10-8 |
| 325.00 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 | 12-7 |
| 350.00 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-2 | 14-3 | 14-5 | 14-7 |
| 375.00 | 15-2 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 | 16-9 |
| 400.00 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 | 18-6 | 18-8 | 18-10 | 19-0 |
| 425.00 | 19-7 | 19-9 | 20-0 | 20-3 | 20-5 | 20-8 | 20-10 | 21-1 | 21-3 | 21-6 |
| 450.00 | 21-11 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-10 | 24-1 |
| 475.00 | 24-5 | 24-9 | 25-0 | 25-3 | 25-6 | 25-10 | 26-1 | 26-4 | 26-7 | 26-10 |
| 500.00 | 27-1 | 27-5 | 27-8 | 28-0 | 28-4 | 28-7 | 28-11 | 29-2 | 29-6 | 29-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 |
| 225.00 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 |
| 250.00 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 |
| 275.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-1 |
| 300.00 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 | 10-5 | 10-7 | 10-8 | 10-9 |
| 325.00 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 | 12-2 | 12-3 | 12-5 | 12-6 | 12-8 |
| 350.00 | 13-4 | 13-6 | 13-8 | 13-10 | 13-11 | 14-1 | 14-3 | 14-5 | 14-6 | 14-8 |
| 375.00 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 | 16-6 | 16-8 | 16-10 |
| 400.00 | 17-5 | 17-8 | 17-10 | 18-0 | 18-3 | 18-5 | 18-7 | 18-10 | 19-0 | 19-2 |
| 425.00 | 19-8 | 19-11 | 20-2 | 20-4 | 20-7 | 20-10 | 21-0 | 21-3 | 21-5 | 21-8 |
| 450.00 | 22-1 | 22-4 | 22-7 | 22-10 | 23-1 | 23-4 | 23-7 | 23-10 | 24-0 | 24-3 |
| 475.00 | 24-7 | 24-11 | 25-2 | 25-5 | 25-9 | 26-0 | 26-3 | 26-6 | 26-10 | 27-1 |
| 500.00 | 27-3 | 27-7 | 27-11 | 28-3 | 28-6 | 28-10 | 29-1 | 29-5 | 29-8 | 30-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 |
| 275.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 |
| 300.00 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 |
| 325.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 |
| 350.00 | 13-4 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 |
| 375.00 | 15-4 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-1 | 16-3 | 16-4 |
| 400.00 | 17-6 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 | 18-3 | 18-4 | 18-6 | 18-7 |
| 425.00 | 19-9 | 19-10 | 20-0 | 20-2 | 20-4 | 20-5 | 20-7 | 20-9 | 20-10 | 21-0 |
| 450.00 | 22-2 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 | 23-6 |
| 475.00 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 |
| 500.00 | 27-4 | 27-6 | 27-9 | 27-11 | 28-2 | 28-4 | 28-6 | 28-8 | 28-11 | 29-1 |
| 525.00 | 30-2 | 30-4 | 30-7 | 30-10 | 31-0 | 31-3 | 31-5 | 31-8 | 31-10 | 32-1 |
| 550.00 | 33-1 | 33-4 | 33-7 | 33-10 | 34-1 | 34-4 | 34-6 | 34-9 | 35-0 | 35-3 |
| 575.00 | 36-2 | 36-6 | 36-9 | 37-0 | 37-3 | 37-6 | 37-9 | 38-0 | 38-3 | 38-6 |
| 600.00 | 39-5 | 39-9 | 40-0 | 40-4 | 40-7 | 40-10 | 41-2 | 41-5 | 41-8 | 42-0 |
| 625.00 | 42-10 | 43-2 | 43-5 | 43-9 | 44-1 | 44-4 | 44-8 | 45-0 | 45-3 | 45-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 |
| 275.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 |
| 300.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-6 |
| 325.00 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 |
| 350.00 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 |
| 375.00 | 15-5 | 15-6 | 15-8 | 15-9 | 15-10 | 16-0 | 16-1 | 16-2 | 16-4 | 16-5 |
| 400.00 | 17-7 | 17-8 | 17-10 | 17-11 | 18-1 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 |
| 425.00 | 19-10 | 20-0 | 20-1 | 20-3 | 20-5 | 20-6 | 20-8 | 20-10 | 20-11 | 21-1 |
| 450.00 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 |
| 475.00 | 24-9 | 25-0 | 25-2 | 25-4 | 25-6 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 |
| 500.00 | 27-6 | 27-8 | 27-11 | 28-1 | 28-3 | 28-6 | 28-8 | 28-10 | 29-1 | 29-3 |
| 525.00 | 30-4 | 30-6 | 30-9 | 31-0 | 31-2 | 31-5 | 31-7 | 31-10 | 32-0 | 32-3 |
| 550.00 | 33-3 | 33-6 | 33-9 | 34-0 | 34-3 | 34-6 | 34-8 | 34-11 | 35-2 | 35-5 |
| 575.00 | 36-5 | 36-8 | 36-11 | 37-2 | 37-5 | 37-8 | 37-11 | 38-3 | 38-6 | 38-9 |
| 600.00 | 39-8 | 39-11 | 40-3 | 40-6 | 40-9 | 41-1 | 41-4 | 41-8 | 41-11 | 42-2 |
| 625.00 | 43-0 | 43-4 | 43-8 | 44-0 | 44-3 | 44-7 | 44-11 | 45-2 | 45-6 | 45-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 0.91 | 3000 | 0.91 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 0.42 | 3364 | 0.42 | 3364 |
| 30 | 0 | 0 | 0 | 1.134 | 0.82 | 1721 | 0.77 | 1845 |
| 40 | 0 | 0 | 0 | 1.134 | 0.99 | 1429 | 0.92 | 1537 |
| 50 | 0 | 0 | 0 | 1.134 | 1.15 | 1229 | 1.08 | 1316 |
| 60 | 0 | 0 | 0 | 1.134 | 1.31 | 1085 | 1.23 | 1155 |
| 70 | 0 | 0 | 0 | 1.134 | 1.45 | 979 | 1.37 | 1035 |
| 80 | 0 | 0 | 0 | 1.134 | 1.58 | 897 | 1.5 | 943 |
| 90 | 0 | 0 | 0 | 1.134 | 1.71 | 831 | 1.63 | 870 |
| 100 | 0 | 0 | 0 | 1.134 | 1.82 | 778 | 1.75 | 811 |
| 110 | 0 | 0 | 0 | 1.134 | 1.93 | 735 | 1.86 | 761 |
| 120 | 0 | 0 | 0 | 1.134 | 1.99 | 714 | 1.97 | 720 |
| 130 | 0 | 0 | 0 | 1.134 | 2.05 | 693 | 2.05 | 693 |
| 167 | 0 | 0 | 0 | 1.134 | 2.24 | 633 | 2.24 | 633 |
| 212 | 0 | 0 | 0 | 1.134 | 2.47 | 575 | 2.47 | 575 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 3.72 | 2942 | 3.65 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 2.91 | 1950 | 2.76 | 2058 |
| 30 | 0 | 0 | 0 | 1.134 | 3.61 | 1571 | 3.45 | 1646 |
| 40 | 0 | 0 | 0 | 1.134 | 3.83 | 1483 | 3.66 | 1550 |
| 50 | 0 | 0 | 0 | 1.134 | 4.04 | 1407 | 3.87 | 1467 |
| 60 | 0 | 0 | 0 | 1.134 | 4.23 | 1341 | 4.07 | 1395 |
| 70 | 0 | 0 | 0 | 1.134 | 4.43 | 1284 | 4.26 | 1332 |
| 80 | 0 | 0 | 0 | 1.134 | 4.61 | 1232 | 4.45 | 1277 |
| 90 | 0 | 0 | 0 | 1.134 | 4.79 | 1186 | 4.63 | 1227 |
| 100 | 0 | 0 | 0 | 1.134 | 4.96 | 1145 | 4.8 | 1183 |
| 110 | 0 | 0 | 0 | 1.134 | 5.13 | 1108 | 4.97 | 1143 |
| 120 | 0 | 0 | 0 | 1.134 | 5.29 | 1074 | 5.14 | 1106 |
| 130 | 0 | 0 | 0 | 1.134 | 5.45 | 1043 | 5.3 | 1073 |
| 167 | 0 | 0 | 0 | 1.134 | 5.82 | 977 | 5.82 | 978 |
| 212 | 0 | 0 | 0 | 1.134 | 6.18 | 921 | 6.17 | 922 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 8.34 | 2958 | 8.22 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 7.51 | 1704 | 7.29 | 1754 |
| 30 | 0 | 0 | 0 | 1.134 | 8.23 | 1556 | 8.01 | 1597 |
| 40 | 0 | 0 | 0 | 1.134 | 8.45 | 1514 | 8.24 | 1553 |
| 50 | 0 | 0 | 0 | 1.134 | 8.68 | 1475 | 8.46 | 1513 |
| 60 | 0 | 0 | 0 | 1.134 | 8.89 | 1439 | 8.68 | 1475 |
| 70 | 0 | 0 | 0 | 1.134 | 9.11 | 1406 | 8.89 | 1439 |
| 80 | 0 | 0 | 0 | 1.134 | 9.32 | 1375 | 9.1 | 1407 |
| 90 | 0 | 0 | 0 | 1.134 | 9.52 | 1345 | 9.31 | 1376 |
| 100 | 0 | 0 | 0 | 1.134 | 9.72 | 1318 | 9.51 | 1347 |
| 110 | 0 | 0 | 0 | 1.134 | 9.92 | 1292 | 9.71 | 1320 |
| 120 | 0 | 0 | 0 | 1.134 | 10.11 | 1267 | 9.9 | 1294 |
| 130 | 0 | 0 | 0 | 1.134 | 10.3 | 1244 | 10.09 | 1270 |
| 167 | 0 | 0 | 0 | 1.134 | 10.89 | 1177 | 10.77 | 1190 |
| 212 | 0 | 0 | 0 | 1.134 | 11.34 | 1131 | 11.34 | 1132 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 14.79 | 2972 | 14.65 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 13.95 | 1634 | 13.71 | 1662 |
| 30 | 0 | 0 | 0 | 1.134 | 14.67 | 1554 | 14.43 | 1580 |
| 40 | 0 | 0 | 0 | 1.134 | 14.91 | 1530 | 14.67 | 1555 |
| 50 | 0 | 0 | 0 | 1.134 | 15.14 | 1507 | 14.9 | 1531 |
| 60 | 0 | 0 | 0 | 1.134 | 15.36 | 1485 | 15.12 | 1508 |
| 70 | 0 | 0 | 0 | 1.134 | 15.59 | 1464 | 15.35 | 1486 |
| 80 | 0 | 0 | 0 | 1.134 | 15.81 | 1444 | 15.57 | 1466 |
| 90 | 0 | 0 | 0 | 1.134 | 16.03 | 1424 | 15.79 | 1446 |
| 100 | 0 | 0 | 0 | 1.134 | 16.24 | 1405 | 16 | 1426 |
| 110 | 0 | 0 | 0 | 1.134 | 16.46 | 1388 | 16.22 | 1408 |
| 120 | 0 | 0 | 0 | 1.134 | 16.67 | 1370 | 16.43 | 1390 |
| 130 | 0 | 0 | 0 | 1.134 | 16.88 | 1354 | 16.63 | 1373 |
| 167 | 0 | 0 | 0 | 1.134 | 17.62 | 1297 | 17.38 | 1315 |
| 212 | 0 | 0 | 0 | 1.134 | 18.13 | 1261 | 18.13 | 1262 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 2.186 | 23.11 | 2980 | 22.96 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 22.27 | 1604 | 22.02 | 1622 |
| 30 | 0 | 0 | 0 | 1.134 | 22.99 | 1554 | 22.74 | 1571 |
| 40 | 0 | 0 | 0 | 1.134 | 23.23 | 1539 | 22.98 | 1555 |
| 50 | 0 | 0 | 0 | 1.134 | 23.46 | 1524 | 23.21 | 1540 |
| 60 | 0 | 0 | 0 | 1.134 | 23.7 | 1509 | 23.44 | 1525 |
| 70 | 0 | 0 | 0 | 1.134 | 23.93 | 1495 | 23.67 | 1511 |
| 80 | 0 | 0 | 0 | 1.134 | 24.15 | 1481 | 23.9 | 1496 |
| 90 | 0 | 0 | 0 | 1.134 | 24.38 | 1467 | 24.12 | 1483 |
| 100 | 0 | 0 | 0 | 1.134 | 24.6 | 1454 | 24.35 | 1469 |
| 110 | 0 | 0 | 0 | 1.134 | 24.83 | 1442 | 24.57 | 1456 |
| 120 | 0 | 0 | 0 | 1.134 | 25.05 | 1429 | 24.79 | 1444 |
| 130 | 0 | 0 | 0 | 1.134 | 25.26 | 1417 | 25 | 1431 |
| 167 | 0 | 0 | 0 | 1.134 | 26.06 | 1375 | 25.79 | 1389 |
| 212 | 0 | 0 | 0 | 1.134 | 26.67 | 1344 | 26.67 | 1344 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 100.00 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-10 |
| 125.00 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 |
| 150.00 | 1-5 | 1-9 | 2-1 | 2-5 | 2-9 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 |
| 175.00 | 1-11 | 2-4 | 2-10 | 3-4 | 3-9 | 4-2 | 4-7 | 5-0 | 5-4 | 5-9 |
| 200.00 | 2-6 | 3-1 | 3-8 | 4-4 | 4-11 | 5-6 | 6-0 | 6-6 | 7-0 | 7-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 125.00 | 1-0 | 1-3 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 |
| 150.00 | 1-6 | 1-10 | 2-3 | 2-7 | 2-11 | 3-3 | 3-7 | 3-10 | 4-1 | 4-4 |
| 175.00 | 2-0 | 2-6 | 3-0 | 3-6 | 4-0 | 4-5 | 4-10 | 5-3 | 5-7 | 5-11 |
| 200.00 | 2-8 | 3-4 | 4-0 | 4-7 | 5-3 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 |
| 175.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 |
| 200.00 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 |
| 225.00 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-4 |
| 250.00 | 5-0 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 |
| 150.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 |
| 175.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 |
| 200.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 |
| 225.00 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 | 6-3 | 6-6 |
| 250.00 | 5-4 | 5-8 | 6-0 | 6-4 | 6-7 | 6-11 | 7-2 | 7-6 | 7-9 | 8-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 |
| 175.00 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 200.00 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 |
| 225.00 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 |
| 250.00 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 |
| 275.00 | 6-6 | 6-9 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |
| 300.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 | 9-9 |
| 325.00 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 | 11-5 |
| 350.00 | 10-7 | 10-11 | 11-3 | 11-6 | 11-10 | 12-1 | 12-5 | 12-8 | 12-11 | 13-3 |
| 375.00 | 12-2 | 12-6 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 | 14-7 | 14-10 | 15-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 |
| 175.00 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 |
| 200.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 225.00 | 4-6 | 4-7 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 |
| 250.00 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 |
| 275.00 | 6-9 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 |
| 300.00 | 8-0 | 8-3 | 8-5 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 |
| 325.00 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 | 11-5 | 11-8 |
| 350.00 | 10-11 | 11-2 | 11-6 | 11-10 | 12-1 | 12-5 | 12-8 | 13-0 | 13-3 | 13-6 |
| 375.00 | 12-6 | 12-10 | 13-3 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 | 15-2 | 15-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 |
| 225.00 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 |
| 250.00 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 275.00 | 6-8 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 |
| 300.00 | 8-0 | 8-1 | 8-3 | 8-4 | 8-6 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 |
| 325.00 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 | 10-7 | 10-8 |
| 350.00 | 10-10 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 |
| 375.00 | 12-6 | 12-8 | 12-11 | 13-1 | 13-3 | 13-6 | 13-8 | 13-10 | 14-1 | 14-3 |
| 400.00 | 14-2 | 14-5 | 14-8 | 14-11 | 15-1 | 15-4 | 15-7 | 15-9 | 16-0 | 16-3 |
| 425.00 | 16-0 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-10 | 18-1 | 18-4 |
| 450.00 | 18-0 | 18-3 | 18-7 | 18-10 | 19-2 | 19-5 | 19-9 | 20-0 | 20-3 | 20-6 |
| 475.00 | 20-0 | 20-4 | 20-8 | 21-0 | 21-4 | 21-8 | 22-0 | 22-3 | 22-7 | 22-11 |
| 500.00 | 22-2 | 22-7 | 22-11 | 23-4 | 23-8 | 24-0 | 24-4 | 24-8 | 25-0 | 25-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 |
| 225.00 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 |
| 250.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 275.00 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-9 |
| 300.00 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 |
| 325.00 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 | 10-7 | 10-9 | 10-10 |
| 350.00 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 |
| 375.00 | 12-8 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 | 14-3 | 14-6 |
| 400.00 | 14-5 | 14-8 | 14-11 | 15-2 | 15-4 | 15-7 | 15-10 | 16-0 | 16-3 | 16-5 |
| 425.00 | 16-4 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 | 17-10 | 18-1 | 18-4 | 18-7 |
| 450.00 | 18-3 | 18-7 | 18-11 | 19-2 | 19-5 | 19-9 | 20-0 | 20-4 | 20-7 | 20-10 |
| 475.00 | 20-4 | 20-8 | 21-0 | 21-4 | 21-8 | 22-0 | 22-4 | 22-7 | 22-11 | 23-3 |
| 500.00 | 22-7 | 22-11 | 23-4 | 23-8 | 24-0 | 24-5 | 24-9 | 25-1 | 25-5 | 25-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 |
| 275.00 | 6-10 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 |
| 300.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 |
| 325.00 | 9-6 | 9-7 | 9-8 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 |
| 350.00 | 11-0 | 11-2 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 |
| 375.00 | 12-8 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 | 13-10 |
| 400.00 | 14-5 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-3 | 15-5 | 15-7 | 15-8 |
| 425.00 | 16-3 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 | 17-9 |
| 450.00 | 18-3 | 18-5 | 18-7 | 18-9 | 19-0 | 19-2 | 19-4 | 19-6 | 19-9 | 19-11 |
| 475.00 | 20-4 | 20-6 | 20-9 | 20-11 | 21-2 | 21-4 | 21-7 | 21-9 | 22-0 | 22-2 |
| 500.00 | 22-6 | 22-9 | 23-0 | 23-3 | 23-5 | 23-8 | 23-11 | 24-1 | 24-4 | 24-7 |
| 525.00 | 24-10 | 25-1 | 25-4 | 25-7 | 25-10 | 26-1 | 26-4 | 26-7 | 26-10 | 27-1 |
| 550.00 | 27-3 | 27-6 | 27-10 | 28-1 | 28-5 | 28-8 | 28-11 | 29-2 | 29-6 | 29-9 |
| 575.00 | 29-9 | 30-1 | 30-5 | 30-9 | 31-0 | 31-4 | 31-8 | 31-11 | 32-3 | 32-6 |
| 600.00 | 32-5 | 32-9 | 33-2 | 33-6 | 33-10 | 34-2 | 34-6 | 34-9 | 35-1 | 35-5 |
| 625.00 | 35-3 | 35-7 | 35-11 | 36-4 | 36-8 | 37-1 | 37-5 | 37-9 | 38-1 | 38-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 |
| 275.00 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-6 |
| 300.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 |
| 325.00 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 |
| 350.00 | 11-2 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-2 |
| 375.00 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 | 13-10 | 13-11 |
| 400.00 | 14-7 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-5 | 15-7 | 15-9 | 15-10 |
| 425.00 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 | 17-9 | 17-11 |
| 450.00 | 18-5 | 18-7 | 18-10 | 19-0 | 19-2 | 19-4 | 19-7 | 19-9 | 19-11 | 20-1 |
| 475.00 | 20-6 | 20-9 | 21-0 | 21-2 | 21-5 | 21-7 | 21-10 | 22-0 | 22-2 | 22-5 |
| 500.00 | 22-9 | 23-0 | 23-3 | 23-6 | 23-8 | 23-11 | 24-2 | 24-5 | 24-7 | 24-10 |
| 525.00 | 25-1 | 25-4 | 25-7 | 25-11 | 26-2 | 26-5 | 26-8 | 26-11 | 27-2 | 27-5 |
| 550.00 | 27-7 | 27-10 | 28-2 | 28-5 | 28-8 | 29-0 | 29-3 | 29-6 | 29-9 | 30-1 |
| 575.00 | 30-1 | 30-5 | 30-9 | 31-1 | 31-4 | 31-8 | 32-0 | 32-3 | 32-7 | 32-10 |
| 600.00 | 32-10 | 33-2 | 33-6 | 33-10 | 34-2 | 34-6 | 34-10 | 35-2 | 35-6 | 35-10 |
| 625.00 | 35-7 | 36-0 | 36-4 | 36-9 | 37-1 | 37-5 | 37-10 | 38-2 | 38-6 | 38-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 4.25 | 1000 | 4.25 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 4.05 | 352 | 4.05 | 352 |
| 30 | 0 | 0 | 0 | 1.134 | 4.11 | 347 | 4.1 | 348 |
| 40 | 0 | 0 | 0 | 1.134 | 4.16 | 343 | 4.16 | 343 |
| 50 | 0 | 0 | 0 | 1.134 | 4.22 | 339 | 4.21 | 339 |
| 60 | 0 | 0 | 0 | 1.134 | 4.27 | 335 | 4.26 | 335 |
| 70 | 0 | 0 | 0 | 1.134 | 4.32 | 331 | 4.31 | 331 |
| 80 | 0 | 0 | 0 | 1.134 | 4.35 | 328 | 4.35 | 328 |
| 90 | 0 | 0 | 0 | 1.134 | 4.38 | 326 | 4.38 | 326 |
| 100 | 0 | 0 | 0 | 1.134 | 4.41 | 324 | 4.41 | 324 |
| 110 | 0 | 0 | 0 | 1.134 | 4.44 | 321 | 4.44 | 321 |
| 120 | 0 | 0 | 0 | 1.134 | 4.47 | 319 | 4.47 | 319 |
| 130 | 0 | 0 | 0 | 1.134 | 4.5 | 317 | 4.5 | 317 |
| 167 | 0 | 0 | 0 | 1.134 | 4.61 | 310 | 4.61 | 310 |
| 212 | 0 | 0 | 0 | 1.134 | 4.74 | 302 | 4.74 | 302 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 17.4 | 1000 | 17.4 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 17.21 | 339 | 17.2 | 339 |
| 30 | 0 | 0 | 0 | 1.134 | 17.26 | 338 | 17.25 | 338 |
| 40 | 0 | 0 | 0 | 1.134 | 17.31 | 337 | 17.3 | 338 |
| 50 | 0 | 0 | 0 | 1.134 | 17.36 | 336 | 17.36 | 337 |
| 60 | 0 | 0 | 0 | 1.134 | 17.42 | 335 | 17.41 | 336 |
| 70 | 0 | 0 | 0 | 1.134 | 17.47 | 335 | 17.46 | 335 |
| 80 | 0 | 0 | 0 | 1.134 | 17.5 | 334 | 17.5 | 334 |
| 90 | 0 | 0 | 0 | 1.134 | 17.54 | 333 | 17.54 | 333 |
| 100 | 0 | 0 | 0 | 1.134 | 17.57 | 333 | 17.57 | 333 |
| 110 | 0 | 0 | 0 | 1.134 | 17.6 | 332 | 17.6 | 332 |
| 120 | 0 | 0 | 0 | 1.134 | 17.63 | 332 | 17.63 | 332 |
| 130 | 0 | 0 | 0 | 1.134 | 17.66 | 331 | 17.66 | 331 |
| 167 | 0 | 0 | 0 | 1.134 | 17.78 | 329 | 17.78 | 329 |
| 212 | 0 | 0 | 0 | 1.134 | 17.92 | 327 | 17.92 | 327 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 40.83 | 1000 | 40.83 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 40.64 | 337 | 40.63 | 337 |
| 30 | 0 | 0 | 0 | 1.134 | 40.69 | 337 | 40.68 | 337 |
| 40 | 0 | 0 | 0 | 1.134 | 40.74 | 336 | 40.73 | 336 |
| 50 | 0 | 0 | 0 | 1.134 | 40.79 | 336 | 40.79 | 336 |
| 60 | 0 | 0 | 0 | 1.134 | 40.84 | 336 | 40.84 | 336 |
| 70 | 0 | 0 | 0 | 1.134 | 40.9 | 335 | 40.89 | 335 |
| 80 | 0 | 0 | 0 | 1.134 | 40.93 | 335 | 40.93 | 335 |
| 90 | 0 | 0 | 0 | 1.134 | 40.96 | 335 | 40.96 | 335 |
| 100 | 0 | 0 | 0 | 1.134 | 41 | 335 | 41 | 335 |
| 110 | 0 | 0 | 0 | 1.134 | 41.03 | 334 | 41.03 | 334 |
| 120 | 0 | 0 | 0 | 1.134 | 41.06 | 334 | 41.06 | 334 |
| 130 | 0 | 0 | 0 | 1.134 | 41.09 | 334 | 41.09 | 334 |
| 167 | 0 | 0 | 0 | 1.134 | 41.21 | 333 | 41.21 | 333 |
| 212 | 0 | 0 | 0 | 1.134 | 41.35 | 332 | 41.35 | 332 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 77.91 | 1000 | 77.91 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 77.72 | 336 | 77.72 | 336 |
| 30 | 0 | 0 | 0 | 1.134 | 77.78 | 336 | 77.77 | 336 |
| 40 | 0 | 0 | 0 | 1.134 | 77.83 | 336 | 77.82 | 336 |
| 50 | 0 | 0 | 0 | 1.134 | 77.88 | 336 | 77.87 | 336 |
| 60 | 0 | 0 | 0 | 1.134 | 77.93 | 336 | 77.92 | 336 |
| 70 | 0 | 0 | 0 | 1.134 | 77.98 | 336 | 77.97 | 336 |
| 80 | 0 | 0 | 0 | 1.134 | 78.02 | 335 | 78.02 | 335 |
| 90 | 0 | 0 | 0 | 1.134 | 78.05 | 335 | 78.05 | 335 |
| 100 | 0 | 0 | 0 | 1.134 | 78.08 | 335 | 78.08 | 335 |
| 110 | 0 | 0 | 0 | 1.134 | 78.11 | 335 | 78.11 | 335 |
| 120 | 0 | 0 | 0 | 1.134 | 78.14 | 335 | 78.14 | 335 |
| 130 | 0 | 0 | 0 | 1.134 | 78.17 | 335 | 78.17 | 335 |
| 167 | 0 | 0 | 0 | 1.134 | 78.29 | 335 | 78.29 | 335 |
| 212 | 0 | 0 | 0 | 1.134 | 78.43 | 334 | 78.43 | 334 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 138.56 | 1000 | 138.56 | 1000* |
| 20 | 0 | 0 | 0 | 1.134 | 138.37 | 336 | 138.37 | 336 |
| 30 | 0 | 0 | 0 | 1.134 | 138.42 | 336 | 138.42 | 336 |
| 40 | 0 | 0 | 0 | 1.134 | 138.47 | 336 | 138.46 | 336 |
| 50 | 0 | 0 | 0 | 1.134 | 138.52 | 336 | 138.51 | 336 |
| 60 | 0 | 0 | 0 | 1.134 | 138.57 | 336 | 138.56 | 336 |
| 70 | 0 | 0 | 0 | 1.134 | 138.62 | 336 | 138.61 | 336 |
| 80 | 0 | 0 | 0 | 1.134 | 138.66 | 336 | 138.66 | 336 |
| 90 | 0 | 0 | 0 | 1.134 | 138.69 | 336 | 138.69 | 336 |
| 100 | 0 | 0 | 0 | 1.134 | 138.72 | 336 | 138.72 | 336 |
| 110 | 0 | 0 | 0 | 1.134 | 138.75 | 336 | 138.75 | 336 |
| 120 | 0 | 0 | 0 | 1.134 | 138.78 | 335 | 138.78 | 335 |
| 130 | 0 | 0 | 0 | 1.134 | 138.81 | 335 | 138.81 | 335 |
| 167 | 0 | 0 | 0 | 1.134 | 138.92 | 335 | 138.92 | 335 |
| 212 | 0 | 0 | 0 | 1.134 | 139.06 | 335 | 139.06 | 335 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 |
| 100.00 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 |
| 125.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 |
| 150.00 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 |
| 175.00 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-6 | 13-7 | 13-8 |
| 200.00 | 16-4 | 16-6 | 16-9 | 16-11 | 17-2 | 17-4 | 17-7 | 17-8 | 17-10 | 17-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 |
| 100.00 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 |
| 125.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 |
| 150.00 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 |
| 175.00 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 |
| 200.00 | 16-4 | 16-7 | 16-9 | 17-0 | 17-2 | 17-5 | 17-7 | 17-8 | 17-10 | 17-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 |
| 125.00 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-10 |
| 150.00 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 |
| 175.00 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 |
| 200.00 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 |
| 225.00 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-4 |
| 250.00 | 27-0 | 27-1 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-7 | 27-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 |
| 125.00 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-10 |
| 150.00 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 |
| 175.00 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 |
| 200.00 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 |
| 225.00 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-4 |
| 250.00 | 27-0 | 27-1 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-7 | 27-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 10-0 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 |
| 175.00 | 13-7 | 13-8 | 13-8 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-9 |
| 200.00 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 |
| 225.00 | 22-7 | 22-8 | 22-8 | 22-8 | 22-9 | 22-9 | 22-9 | 22-10 | 22-10 | 22-10 |
| 250.00 | 28-0 | 28-1 | 28-1 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 | 28-3 | 28-3 |
| 275.00 | 34-0 | 34-1 | 34-1 | 34-2 | 34-2 | 34-3 | 34-3 | 34-4 | 34-4 | 34-4 |
| 300.00 | 40-8 | 40-8 | 40-9 | 40-9 | 40-10 | 40-11 | 40-11 | 41-0 | 41-0 | 41-0 |
| 325.00 | 47-11 | 47-11 | 48-0 | 48-1 | 48-1 | 48-2 | 48-3 | 48-3 | 48-4 | 48-4 |
| 350.00 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-2 | 56-2 | 56-3 | 56-3 | 56-4 |
| 375.00 | 64-4 | 64-5 | 64-6 | 64-7 | 64-8 | 64-9 | 64-10 | 64-10 | 64-11 | 65-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 10-0 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 |
| 175.00 | 13-7 | 13-8 | 13-8 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-9 |
| 200.00 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 |
| 225.00 | 22-8 | 22-8 | 22-8 | 22-9 | 22-9 | 22-9 | 22-9 | 22-10 | 22-10 | 22-10 |
| 250.00 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 | 28-2 | 28-3 | 28-3 | 28-3 | 28-3 |
| 275.00 | 34-0 | 34-1 | 34-1 | 34-2 | 34-2 | 34-3 | 34-3 | 34-4 | 34-4 | 34-4 |
| 300.00 | 40-8 | 40-8 | 40-9 | 40-10 | 40-10 | 40-11 | 40-11 | 41-0 | 41-0 | 41-0 |
| 325.00 | 47-11 | 47-11 | 48-0 | 48-1 | 48-2 | 48-2 | 48-3 | 48-3 | 48-4 | 48-4 |
| 350.00 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-2 | 56-2 | 56-3 | 56-3 | 56-4 |
| 375.00 | 64-4 | 64-5 | 64-6 | 64-7 | 64-8 | 64-9 | 64-10 | 64-10 | 64-11 | 65-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-9 | 18-9 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 |
| 225.00 | 23-10 | 23-10 | 23-10 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 |
| 250.00 | 29-6 | 29-7 | 29-7 | 29-7 | 29-7 | 29-7 | 29-8 | 29-8 | 29-8 | 29-8 |
| 275.00 | 35-10 | 35-11 | 35-11 | 35-11 | 35-11 | 36-0 | 36-0 | 36-0 | 36-0 | 36-0 |
| 300.00 | 42-10 | 42-11 | 42-11 | 42-11 | 43-0 | 43-0 | 43-0 | 43-0 | 43-1 | 43-1 |
| 325.00 | 50-6 | 50-7 | 50-7 | 50-7 | 50-8 | 50-8 | 50-8 | 50-9 | 50-9 | 50-9 |
| 350.00 | 58-10 | 58-11 | 58-11 | 59-0 | 59-0 | 59-1 | 59-1 | 59-1 | 59-2 | 59-2 |
| 375.00 | 67-11 | 68-0 | 68-0 | 68-1 | 68-1 | 68-2 | 68-2 | 68-3 | 68-3 | 68-3 |
| 400.00 | 77-9 | 77-9 | 77-10 | 77-10 | 77-11 | 78-0 | 78-0 | 78-1 | 78-1 | 78-1 |
| 425.00 | 88-3 | 88-4 | 88-4 | 88-5 | 88-6 | 88-7 | 88-7 | 88-8 | 88-8 | 88-8 |
| 450.00 | 99-7 | 99-7 | 99-8 | 99-9 | 99-10 | 99-11 | 99-11 | 100-0 | 100-0 | 100-1 |
| 475.00 | 111-8 | 111-9 | 111-10 | 111-11 | 111-11 | 112-0 | 112-1 | 112-2 | 112-2 | 112-3 |
| 500.00 | 124-7 | 124-8 | 124-9 | 124-10 | 124-11 | 125-0 | 125-1 | 125-2 | 125-2 | 125-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-9 | 18-9 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 |
| 225.00 | 23-10 | 23-10 | 23-10 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 |
| 250.00 | 29-6 | 29-7 | 29-7 | 29-7 | 29-7 | 29-7 | 29-8 | 29-8 | 29-8 | 29-8 |
| 275.00 | 35-10 | 35-11 | 35-11 | 35-11 | 35-11 | 36-0 | 36-0 | 36-0 | 36-0 | 36-0 |
| 300.00 | 42-10 | 42-11 | 42-11 | 42-11 | 43-0 | 43-0 | 43-0 | 43-0 | 43-1 | 43-1 |
| 325.00 | 50-6 | 50-7 | 50-7 | 50-7 | 50-8 | 50-8 | 50-8 | 50-9 | 50-9 | 50-9 |
| 350.00 | 58-10 | 58-11 | 58-11 | 59-0 | 59-0 | 59-1 | 59-1 | 59-1 | 59-2 | 59-2 |
| 375.00 | 67-11 | 68-0 | 68-0 | 68-1 | 68-1 | 68-2 | 68-2 | 68-3 | 68-3 | 68-3 |
| 400.00 | 77-9 | 77-9 | 77-10 | 77-11 | 77-11 | 78-0 | 78-0 | 78-1 | 78-1 | 78-1 |
| 425.00 | 88-3 | 88-4 | 88-5 | 88-5 | 88-6 | 88-7 | 88-7 | 88-8 | 88-8 | 88-8 |
| 450.00 | 99-7 | 99-8 | 99-8 | 99-9 | 99-10 | 99-11 | 99-11 | 100-0 | 100-0 | 100-1 |
| 475.00 | 111-8 | 111-9 | 111-10 | 111-11 | 112-0 | 112-1 | 112-1 | 112-2 | 112-2 | 112-3 |
| 500.00 | 124-7 | 124-8 | 124-9 | 124-10 | 124-11 | 125-0 | 125-1 | 125-2 | 125-2 | 125-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 32-5 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 |
| 275.00 | 39-5 | 39-5 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 |
| 300.00 | 47-2 | 47-2 | 47-2 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 |
| 325.00 | 55-8 | 55-8 | 55-8 | 55-9 | 55-9 | 55-9 | 55-9 | 55-9 | 55-9 | 55-10 |
| 350.00 | 64-11 | 64-11 | 65-0 | 65-0 | 65-0 | 65-0 | 65-1 | 65-1 | 65-1 | 65-1 |
| 375.00 | 75-0 | 75-0 | 75-0 | 75-1 | 75-1 | 75-1 | 75-2 | 75-2 | 75-2 | 75-2 |
| 400.00 | 85-11 | 85-11 | 85-11 | 86-0 | 86-0 | 86-0 | 86-1 | 86-1 | 86-1 | 86-1 |
| 425.00 | 97-8 | 97-8 | 97-9 | 97-9 | 97-9 | 97-10 | 97-10 | 97-10 | 97-11 | 97-11 |
| 450.00 | 110-3 | 110-4 | 110-4 | 110-5 | 110-5 | 110-6 | 110-6 | 110-6 | 110-7 | 110-7 |
| 475.00 | 123-10 | 123-11 | 123-11 | 124-0 | 124-0 | 124-1 | 124-1 | 124-2 | 124-2 | 124-2 |
| 500.00 | 138-4 | 138-5 | 138-6 | 138-6 | 138-7 | 138-7 | 138-8 | 138-8 | 138-9 | 138-9 |
| 525.00 | 153-11 | 153-11 | 154-0 | 154-1 | 154-1 | 154-2 | 154-2 | 154-3 | 154-3 | 154-4 |
| 550.00 | 170-5 | 170-6 | 170-7 | 170-7 | 170-8 | 170-9 | 170-9 | 170-10 | 170-10 | 170-11 |
| 575.00 | 188-0 | 188-1 | 188-2 | 188-3 | 188-4 | 188-5 | 188-5 | 188-6 | 188-6 | 188-7 |
| 600.00 | 206-9 | 206-10 | 206-11 | 207-0 | 207-1 | 207-2 | 207-3 | 207-3 | 207-4 | 207-5 |
| 625.00 | 226-8 | 226-9 | 226-10 | 226-11 | 227-0 | 227-2 | 227-2 | 227-3 | 227-4 | 227-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 32-5 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 |
| 275.00 | 39-5 | 39-5 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 |
| 300.00 | 47-2 | 47-2 | 47-2 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 |
| 325.00 | 55-8 | 55-8 | 55-8 | 55-9 | 55-9 | 55-9 | 55-9 | 55-9 | 55-9 | 55-10 |
| 350.00 | 64-11 | 64-11 | 65-0 | 65-0 | 65-0 | 65-0 | 65-1 | 65-1 | 65-1 | 65-1 |
| 375.00 | 75-0 | 75-0 | 75-1 | 75-1 | 75-1 | 75-1 | 75-2 | 75-2 | 75-2 | 75-2 |
| 400.00 | 85-11 | 85-11 | 85-11 | 86-0 | 86-0 | 86-0 | 86-1 | 86-1 | 86-1 | 86-1 |
| 425.00 | 97-8 | 97-8 | 97-9 | 97-9 | 97-9 | 97-10 | 97-10 | 97-10 | 97-11 | 97-11 |
| 450.00 | 110-3 | 110-4 | 110-4 | 110-5 | 110-5 | 110-6 | 110-6 | 110-6 | 110-7 | 110-7 |
| 475.00 | 123-10 | 123-11 | 123-11 | 124-0 | 124-0 | 124-1 | 124-1 | 124-2 | 124-2 | 124-2 |
| 500.00 | 138-4 | 138-5 | 138-6 | 138-6 | 138-7 | 138-7 | 138-8 | 138-8 | 138-9 | 138-9 |
| 525.00 | 153-11 | 153-11 | 154-0 | 154-1 | 154-1 | 154-2 | 154-2 | 154-3 | 154-3 | 154-4 |
| 550.00 | 170-5 | 170-6 | 170-7 | 170-7 | 170-8 | 170-9 | 170-9 | 170-10 | 170-10 | 170-11 |
| 575.00 | 188-1 | 188-1 | 188-2 | 188-3 | 188-4 | 188-5 | 188-5 | 188-6 | 188-6 | 188-7 |
| 600.00 | 206-9 | 206-10 | 206-11 | 207-0 | 207-1 | 207-2 | 207-3 | 207-3 | 207-4 | 207-5 |
| 625.00 | 226-8 | 226-9 | 226-11 | 227-0 | 227-1 | 227-2 | 227-2 | 227-3 | 227-4 | 227-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 2.82 | 1500 | 2.82 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 2.49 | 570 | 2.48 | 574 |
| 30 | 0 | 0 | 0 | 1.134 | 2.58 | 551 | 2.56 | 555 |
| 40 | 0 | 0 | 0 | 1.134 | 2.66 | 534 | 2.64 | 538 |
| 50 | 0 | 0 | 0 | 1.134 | 2.74 | 519 | 2.72 | 522 |
| 60 | 0 | 0 | 0 | 1.134 | 2.82 | 504 | 2.8 | 508 |
| 70 | 0 | 0 | 0 | 1.134 | 2.9 | 491 | 2.88 | 494 |
| 80 | 0 | 0 | 0 | 1.134 | 2.97 | 479 | 2.95 | 482 |
| 90 | 0 | 0 | 0 | 1.134 | 3.03 | 469 | 3.02 | 470 |
| 100 | 0 | 0 | 0 | 1.134 | 3.08 | 462 | 3.08 | 462 |
| 110 | 0 | 0 | 0 | 1.134 | 3.12 | 456 | 3.12 | 456 |
| 120 | 0 | 0 | 0 | 1.134 | 3.16 | 450 | 3.16 | 450 |
| 130 | 0 | 0 | 0 | 1.134 | 3.2 | 445 | 3.2 | 445 |
| 167 | 0 | 0 | 0 | 1.134 | 3.34 | 426 | 3.34 | 426 |
| 212 | 0 | 0 | 0 | 1.134 | 3.51 | 405 | 3.51 | 405 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 11.41 | 1500 | 11.41 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 11.09 | 518 | 11.07 | 519 |
| 30 | 0 | 0 | 0 | 1.134 | 11.17 | 514 | 11.15 | 515 |
| 40 | 0 | 0 | 0 | 1.134 | 11.24 | 511 | 11.23 | 511 |
| 50 | 0 | 0 | 0 | 1.134 | 11.32 | 507 | 11.31 | 508 |
| 60 | 0 | 0 | 0 | 1.134 | 11.4 | 504 | 11.38 | 505 |
| 70 | 0 | 0 | 0 | 1.134 | 11.48 | 500 | 11.46 | 501 |
| 80 | 0 | 0 | 0 | 1.134 | 11.56 | 497 | 11.54 | 498 |
| 90 | 0 | 0 | 0 | 1.134 | 11.63 | 494 | 11.61 | 495 |
| 100 | 0 | 0 | 0 | 1.134 | 11.68 | 492 | 11.68 | 492 |
| 110 | 0 | 0 | 0 | 1.134 | 11.73 | 490 | 11.73 | 490 |
| 120 | 0 | 0 | 0 | 1.134 | 11.77 | 488 | 11.77 | 488 |
| 130 | 0 | 0 | 0 | 1.134 | 11.82 | 486 | 11.82 | 486 |
| 167 | 0 | 0 | 0 | 1.134 | 11.99 | 480 | 11.99 | 480 |
| 212 | 0 | 0 | 0 | 1.134 | 12.19 | 472 | 12.19 | 472 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 26.1 | 1500 | 26.1 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 25.78 | 509 | 25.77 | 510 |
| 30 | 0 | 0 | 0 | 1.134 | 25.86 | 508 | 25.84 | 508 |
| 40 | 0 | 0 | 0 | 1.134 | 25.94 | 507 | 25.92 | 507 |
| 50 | 0 | 0 | 0 | 1.134 | 26.02 | 505 | 26 | 505 |
| 60 | 0 | 0 | 0 | 1.134 | 26.1 | 504 | 26.08 | 504 |
| 70 | 0 | 0 | 0 | 1.134 | 26.17 | 502 | 26.16 | 503 |
| 80 | 0 | 0 | 0 | 1.134 | 26.25 | 501 | 26.23 | 501 |
| 90 | 0 | 0 | 0 | 1.134 | 26.33 | 499 | 26.31 | 500 |
| 100 | 0 | 0 | 0 | 1.134 | 26.38 | 499 | 26.38 | 499 |
| 110 | 0 | 0 | 0 | 1.134 | 26.43 | 498 | 26.43 | 498 |
| 120 | 0 | 0 | 0 | 1.134 | 26.48 | 497 | 26.48 | 497 |
| 130 | 0 | 0 | 0 | 1.134 | 26.52 | 496 | 26.52 | 496 |
| 167 | 0 | 0 | 0 | 1.134 | 26.69 | 493 | 26.69 | 493 |
| 212 | 0 | 0 | 0 | 1.134 | 26.9 | 490 | 26.9 | 490 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 47.6 | 1500 | 47.6 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 47.28 | 507 | 47.26 | 507 |
| 30 | 0 | 0 | 0 | 1.134 | 47.36 | 506 | 47.34 | 506 |
| 40 | 0 | 0 | 0 | 1.134 | 47.44 | 505 | 47.42 | 505 |
| 50 | 0 | 0 | 0 | 1.134 | 47.51 | 504 | 47.5 | 505 |
| 60 | 0 | 0 | 0 | 1.134 | 47.59 | 504 | 47.57 | 504 |
| 70 | 0 | 0 | 0 | 1.134 | 47.67 | 503 | 47.65 | 503 |
| 80 | 0 | 0 | 0 | 1.134 | 47.75 | 502 | 47.73 | 502 |
| 90 | 0 | 0 | 0 | 1.134 | 47.83 | 501 | 47.81 | 502 |
| 100 | 0 | 0 | 0 | 1.134 | 47.88 | 501 | 47.88 | 501 |
| 110 | 0 | 0 | 0 | 1.134 | 47.93 | 501 | 47.93 | 501 |
| 120 | 0 | 0 | 0 | 1.134 | 47.97 | 500 | 47.97 | 500 |
| 130 | 0 | 0 | 0 | 1.134 | 48.02 | 500 | 48.02 | 500 |
| 167 | 0 | 0 | 0 | 1.134 | 48.19 | 498 | 48.19 | 498 |
| 212 | 0 | 0 | 0 | 1.134 | 48.4 | 496 | 48.4 | 496 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 77.11 | 1500 | 77.11 | 1500* |
| 20 | 0 | 0 | 0 | 1.134 | 76.79 | 505 | 76.78 | 505 |
| 30 | 0 | 0 | 0 | 1.134 | 76.87 | 505 | 76.86 | 505 |
| 40 | 0 | 0 | 0 | 1.134 | 76.95 | 504 | 76.93 | 505 |
| 50 | 0 | 0 | 0 | 1.134 | 77.03 | 504 | 77.01 | 504 |
| 60 | 0 | 0 | 0 | 1.134 | 77.11 | 504 | 77.09 | 504 |
| 70 | 0 | 0 | 0 | 1.134 | 77.18 | 503 | 77.16 | 503 |
| 80 | 0 | 0 | 0 | 1.134 | 77.26 | 503 | 77.24 | 503 |
| 90 | 0 | 0 | 0 | 1.134 | 77.34 | 502 | 77.32 | 502 |
| 100 | 0 | 0 | 0 | 1.134 | 77.39 | 502 | 77.39 | 502 |
| 110 | 0 | 0 | 0 | 1.134 | 77.44 | 502 | 77.44 | 502 |
| 120 | 0 | 0 | 0 | 1.134 | 77.48 | 502 | 77.48 | 502 |
| 130 | 0 | 0 | 0 | 1.134 | 77.53 | 501 | 77.53 | 501 |
| 167 | 0 | 0 | 0 | 1.134 | 77.71 | 500 | 77.71 | 500 |
| 212 | 0 | 0 | 0 | 1.134 | 77.92 | 499 | 77.92 | 499 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 |
| 100.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-1 |
| 125.00 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 |
| 150.00 | 5-7 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-0 |
| 175.00 | 7-7 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 | 9-5 | 9-7 |
| 200.00 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-10 | 12-2 | 12-4 | 12-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 |
| 100.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 125.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 |
| 150.00 | 5-7 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-0 |
| 175.00 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-1 | 9-4 | 9-5 | 9-7 |
| 200.00 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 | 11-7 | 11-11 | 12-2 | 12-4 | 12-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.294

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 |
| 125.00 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 |
| 150.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 |
| 175.00 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 |
| 200.00 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 |
| 225.00 | 14-0 | 14-1 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-9 | 14-10 | 14-10 |
| 250.00 | 17-4 | 17-6 | 17-7 | 17-8 | 17-10 | 17-11 | 18-1 | 18-2 | 18-4 | 18-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 2-11 |
| 125.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 |
| 150.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 |
| 175.00 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 |
| 200.00 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 |
| 225.00 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 | 14-10 |
| 250.00 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 | 18-3 | 18-4 | 18-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.295

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 6-5 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 |
| 175.00 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 |
| 200.00 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 |
| 225.00 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-10 |
| 250.00 | 17-10 | 17-11 | 17-11 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 |
| 275.00 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-2 | 22-2 |
| 300.00 | 25-9 | 25-10 | 25-11 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-5 |
| 325.00 | 30-3 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 |
| 350.00 | 35-2 | 35-4 | 35-5 | 35-6 | 35-7 | 35-9 | 35-10 | 35-11 | 36-0 | 36-1 |
| 375.00 | 40-6 | 40-7 | 40-9 | 40-10 | 41-0 | 41-1 | 41-3 | 41-4 | 41-5 | 41-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 6-5 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 |
| 175.00 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 |
| 200.00 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 |
| 225.00 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-10 |
| 250.00 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 |
| 275.00 | 21-8 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-2 |
| 300.00 | 25-9 | 25-10 | 25-11 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-5 |
| 325.00 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 |
| 350.00 | 35-3 | 35-4 | 35-5 | 35-6 | 35-8 | 35-9 | 35-10 | 36-0 | 36-0 | 36-1 |
| 375.00 | 40-6 | 40-8 | 40-9 | 40-11 | 41-0 | 41-2 | 41-3 | 41-4 | 41-5 | 41-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 |
| 225.00 | 14-9 | 14-10 | 14-10 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 | 15-0 | 15-0 |
| 250.00 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-5 | 18-5 | 18-6 | 18-6 | 18-6 |
| 275.00 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 |
| 300.00 | 26-5 | 26-5 | 26-6 | 26-6 | 26-7 | 26-7 | 26-8 | 26-8 | 26-9 | 26-9 |
| 325.00 | 31-0 | 31-1 | 31-1 | 31-2 | 31-3 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 |
| 350.00 | 36-0 | 36-1 | 36-2 | 36-3 | 36-3 | 36-4 | 36-5 | 36-5 | 36-6 | 36-6 |
| 375.00 | 41-5 | 41-6 | 41-7 | 41-8 | 41-9 | 41-9 | 41-10 | 41-11 | 42-0 | 42-0 |
| 400.00 | 47-3 | 47-4 | 47-5 | 47-6 | 47-7 | 47-8 | 47-9 | 47-10 | 47-11 | 47-11 |
| 425.00 | 53-6 | 53-7 | 53-8 | 53-9 | 53-10 | 53-11 | 54-0 | 54-1 | 54-2 | 54-3 |
| 450.00 | 60-1 | 60-2 | 60-4 | 60-5 | 60-6 | 60-7 | 60-8 | 60-10 | 60-11 | 60-11 |
| 475.00 | 67-2 | 67-3 | 67-4 | 67-6 | 67-7 | 67-8 | 67-10 | 67-11 | 68-0 | 68-1 |
| 500.00 | 74-7 | 74-9 | 74-10 | 75-0 | 75-1 | 75-3 | 75-4 | 75-6 | 75-7 | 75-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 |
| 225.00 | 14-9 | 14-10 | 14-10 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 | 15-0 | 15-0 |
| 250.00 | 18-3 | 18-4 | 18-4 | 18-4 | 18-5 | 18-5 | 18-5 | 18-6 | 18-6 | 18-6 |
| 275.00 | 22-2 | 22-2 | 22-3 | 22-3 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 |
| 300.00 | 26-5 | 26-5 | 26-6 | 26-6 | 26-7 | 26-7 | 26-8 | 26-8 | 26-9 | 26-9 |
| 325.00 | 31-0 | 31-1 | 31-1 | 31-2 | 31-3 | 31-3 | 31-4 | 31-5 | 31-5 | 31-5 |
| 350.00 | 36-1 | 36-1 | 36-2 | 36-3 | 36-3 | 36-4 | 36-5 | 36-6 | 36-6 | 36-6 |
| 375.00 | 41-6 | 41-6 | 41-7 | 41-8 | 41-9 | 41-10 | 41-10 | 41-11 | 42-0 | 42-0 |
| 400.00 | 47-3 | 47-4 | 47-5 | 47-6 | 47-7 | 47-8 | 47-9 | 47-10 | 47-11 | 47-11 |
| 425.00 | 53-6 | 53-7 | 53-8 | 53-9 | 53-10 | 53-11 | 54-0 | 54-1 | 54-2 | 54-3 |
| 450.00 | 60-1 | 60-3 | 60-4 | 60-5 | 60-6 | 60-8 | 60-9 | 60-10 | 60-11 | 60-11 |
| 475.00 | 67-2 | 67-3 | 67-5 | 67-6 | 67-7 | 67-9 | 67-10 | 67-11 | 68-0 | 68-1 |
| 500.00 | 74-7 | 74-9 | 74-10 | 75-0 | 75-2 | 75-3 | 75-5 | 75-6 | 75-7 | 75-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-9 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 |
| 275.00 | 22-9 | 22-9 | 22-10 | 22-10 | 22-10 | 22-10 | 22-11 | 22-11 | 22-11 | 22-11 |
| 300.00 | 27-1 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 |
| 325.00 | 31-11 | 31-11 | 31-11 | 32-0 | 32-0 | 32-1 | 32-1 | 32-1 | 32-2 | 32-2 |
| 350.00 | 37-1 | 37-1 | 37-2 | 37-2 | 37-2 | 37-3 | 37-3 | 37-4 | 37-4 | 37-4 |
| 375.00 | 42-8 | 42-8 | 42-9 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 43-0 | 43-0 |
| 400.00 | 48-7 | 48-8 | 48-9 | 48-9 | 48-10 | 48-10 | 48-11 | 48-11 | 49-0 | 49-0 |
| 425.00 | 55-0 | 55-1 | 55-2 | 55-2 | 55-3 | 55-4 | 55-4 | 55-5 | 55-5 | 55-6 |
| 450.00 | 61-10 | 61-11 | 62-0 | 62-0 | 62-1 | 62-2 | 62-3 | 62-3 | 62-4 | 62-4 |
| 475.00 | 69-1 | 69-2 | 69-3 | 69-4 | 69-4 | 69-5 | 69-6 | 69-7 | 69-8 | 69-8 |
| 500.00 | 76-9 | 76-10 | 76-11 | 77-0 | 77-1 | 77-2 | 77-3 | 77-4 | 77-5 | 77-5 |
| 525.00 | 84-11 | 85-0 | 85-1 | 85-2 | 85-3 | 85-4 | 85-5 | 85-6 | 85-7 | 85-8 |
| 550.00 | 93-6 | 93-7 | 93-8 | 93-9 | 93-10 | 93-11 | 94-1 | 94-2 | 94-3 | 94-3 |
| 575.00 | 102-6 | 102-7 | 102-9 | 102-10 | 102-11 | 103-0 | 103-2 | 103-3 | 103-4 | 103-5 |
| 600.00 | 112-0 | 112-1 | 112-3 | 112-4 | 112-6 | 112-7 | 112-8 | 112-10 | 112-11 | 113-0 |
| 625.00 | 122-0 | 122-1 | 122-3 | 122-4 | 122-6 | 122-7 | 122-9 | 122-10 | 123-0 | 123-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-9 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 |
| 275.00 | 22-9 | 22-9 | 22-10 | 22-10 | 22-10 | 22-10 | 22-11 | 22-11 | 22-11 | 22-11 |
| 300.00 | 27-2 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 |
| 325.00 | 31-11 | 31-11 | 32-0 | 32-0 | 32-0 | 32-1 | 32-1 | 32-1 | 32-2 | 32-2 |
| 350.00 | 37-1 | 37-1 | 37-2 | 37-2 | 37-3 | 37-3 | 37-3 | 37-4 | 37-4 | 37-4 |
| 375.00 | 42-8 | 42-8 | 42-9 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 43-0 | 43-0 |
| 400.00 | 48-8 | 48-8 | 48-9 | 48-9 | 48-10 | 48-10 | 48-11 | 49-0 | 49-0 | 49-0 |
| 425.00 | 55-0 | 55-1 | 55-2 | 55-2 | 55-3 | 55-4 | 55-4 | 55-5 | 55-5 | 55-6 |
| 450.00 | 61-10 | 61-11 | 62-0 | 62-1 | 62-1 | 62-2 | 62-3 | 62-3 | 62-4 | 62-4 |
| 475.00 | 69-1 | 69-2 | 69-3 | 69-4 | 69-5 | 69-5 | 69-6 | 69-7 | 69-8 | 69-8 |
| 500.00 | 76-10 | 76-10 | 76-11 | 77-0 | 77-1 | 77-2 | 77-3 | 77-4 | 77-5 | 77-5 |
| 525.00 | 84-11 | 85-0 | 85-1 | 85-2 | 85-3 | 85-4 | 85-5 | 85-6 | 85-7 | 85-8 |
| 550.00 | 93-6 | 93-7 | 93-8 | 93-9 | 93-11 | 94-0 | 94-1 | 94-2 | 94-3 | 94-3 |
| 575.00 | 102-6 | 102-8 | 102-9 | 102-10 | 102-11 | 103-1 | 103-2 | 103-3 | 103-4 | 103-5 |
| 600.00 | 112-0 | 112-2 | 112-3 | 112-4 | 112-6 | 112-7 | 112-9 | 112-10 | 112-11 | 113-0 |
| 625.00 | 122-0 | 122-1 | 122-3 | 122-5 | 122-6 | 122-8 | 122-9 | 122-11 | 123-0 | 123-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS



TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 2.11 | 2000 | 2.11 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 1.62 | 876 | 1.59 | 893 |
| 30 | 0 | 0 | 0 | 1.134 | 1.74 | 814 | 1.71 | 829 |
| 40 | 0 | 0 | 0 | 1.134 | 1.86 | 763 | 1.83 | 777 |
| 50 | 0 | 0 | 0 | 1.134 | 1.97 | 721 | 1.94 | 733 |
| 60 | 0 | 0 | 0 | 1.134 | 2.07 | 684 | 2.04 | 695 |
| 70 | 0 | 0 | 0 | 1.134 | 2.18 | 653 | 2.14 | 663 |
| 80 | 0 | 0 | 0 | 1.134 | 2.27 | 625 | 2.24 | 634 |
| 90 | 0 | 0 | 0 | 1.134 | 2.36 | 601 | 2.33 | 609 |
| 100 | 0 | 0 | 0 | 1.134 | 2.45 | 581 | 2.42 | 587 |
| 110 | 0 | 0 | 0 | 1.134 | 2.5 | 569 | 2.5 | 569 |
| 120 | 0 | 0 | 0 | 1.134 | 2.55 | 558 | 2.55 | 558 |
| 130 | 0 | 0 | 0 | 1.134 | 2.59 | 548 | 2.59 | 548 |
| 167 | 0 | 0 | 0 | 1.134 | 2.76 | 514 | 2.76 | 514 |
| 212 | 0 | 0 | 0 | 1.134 | 2.96 | 480 | 2.96 | 480 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 8.51 | 2000 | 8.51 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 8.04 | 710 | 8.01 | 713 |
| 30 | 0 | 0 | 0 | 1.134 | 8.15 | 701 | 8.11 | 703 |
| 40 | 0 | 0 | 0 | 1.134 | 8.25 | 692 | 8.22 | 694 |
| 50 | 0 | 0 | 0 | 1.134 | 8.36 | 683 | 8.33 | 686 |
| 60 | 0 | 0 | 0 | 1.134 | 8.46 | 675 | 8.43 | 677 |
| 70 | 0 | 0 | 0 | 1.134 | 8.57 | 667 | 8.53 | 669 |
| 80 | 0 | 0 | 0 | 1.134 | 8.67 | 659 | 8.63 | 662 |
| 90 | 0 | 0 | 0 | 1.134 | 8.77 | 651 | 8.74 | 654 |
| 100 | 0 | 0 | 0 | 1.134 | 8.87 | 644 | 8.83 | 647 |
| 110 | 0 | 0 | 0 | 1.134 | 8.95 | 639 | 8.93 | 640 |
| 120 | 0 | 0 | 0 | 1.134 | 9.01 | 634 | 9.01 | 634 |
| 130 | 0 | 0 | 0 | 1.134 | 9.07 | 630 | 9.07 | 630 |
| 167 | 0 | 0 | 0 | 1.134 | 9.28 | 616 | 9.28 | 616 |
| 212 | 0 | 0 | 0 | 1.134 | 9.53 | 600 | 9.53 | 600 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 19.31 | 2000 | 19.31 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 18.85 | 687 | 18.82 | 689 |
| 30 | 0 | 0 | 0 | 1.134 | 18.96 | 684 | 18.93 | 685 |
| 40 | 0 | 0 | 0 | 1.134 | 19.06 | 680 | 19.03 | 681 |
| 50 | 0 | 0 | 0 | 1.134 | 19.17 | 676 | 19.14 | 678 |
| 60 | 0 | 0 | 0 | 1.134 | 19.27 | 673 | 19.24 | 674 |
| 70 | 0 | 0 | 0 | 1.134 | 19.38 | 669 | 19.34 | 671 |
| 80 | 0 | 0 | 0 | 1.134 | 19.48 | 666 | 19.45 | 667 |
| 90 | 0 | 0 | 0 | 1.134 | 19.58 | 663 | 19.55 | 664 |
| 100 | 0 | 0 | 0 | 1.134 | 19.69 | 659 | 19.65 | 660 |
| 110 | 0 | 0 | 0 | 1.134 | 19.78 | 656 | 19.75 | 657 |
| 120 | 0 | 0 | 0 | 1.134 | 19.84 | 654 | 19.84 | 654 |
| 130 | 0 | 0 | 0 | 1.134 | 19.91 | 652 | 19.91 | 652 |
| 167 | 0 | 0 | 0 | 1.134 | 20.13 | 645 | 20.13 | 645 |
| 212 | 0 | 0 | 0 | 1.134 | 20.4 | 637 | 20.4 | 637 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 34.8 | 2000 | 34.8 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 34.34 | 680 | 34.31 | 681 |
| 30 | 0 | 0 | 0 | 1.134 | 34.45 | 678 | 34.41 | 679 |
| 40 | 0 | 0 | 0 | 1.134 | 34.55 | 676 | 34.52 | 677 |
| 50 | 0 | 0 | 0 | 1.134 | 34.66 | 674 | 34.62 | 675 |
| 60 | 0 | 0 | 0 | 1.134 | 34.76 | 672 | 34.73 | 673 |
| 70 | 0 | 0 | 0 | 1.134 | 34.86 | 670 | 34.83 | 671 |
| 80 | 0 | 0 | 0 | 1.134 | 34.97 | 668 | 34.93 | 669 |
| 90 | 0 | 0 | 0 | 1.134 | 35.07 | 667 | 35.03 | 667 |
| 100 | 0 | 0 | 0 | 1.134 | 35.17 | 665 | 35.14 | 665 |
| 110 | 0 | 0 | 0 | 1.134 | 35.27 | 663 | 35.24 | 664 |
| 120 | 0 | 0 | 0 | 1.134 | 35.34 | 662 | 35.34 | 662 |
| 130 | 0 | 0 | 0 | 1.134 | 35.4 | 661 | 35.4 | 661 |
| 167 | 0 | 0 | 0 | 1.134 | 35.63 | 657 | 35.63 | 657 |
| 212 | 0 | 0 | 0 | 1.134 | 35.91 | 652 | 35.91 | 652 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 55.37 | 2000 | 55.37 | 2000* |
| 20 | 0 | 0 | 0 | 1.134 | 54.92 | 677 | 54.88 | 677 |
| 30 | 0 | 0 | 0 | 1.134 | 55.02 | 675 | 54.99 | 676 |
| 40 | 0 | 0 | 0 | 1.134 | 55.12 | 674 | 55.09 | 675 |
| 50 | 0 | 0 | 0 | 1.134 | 55.23 | 673 | 55.2 | 673 |
| 60 | 0 | 0 | 0 | 1.134 | 55.33 | 672 | 55.3 | 672 |
| 70 | 0 | 0 | 0 | 1.134 | 55.44 | 671 | 55.4 | 671 |
| 80 | 0 | 0 | 0 | 1.134 | 55.54 | 670 | 55.51 | 670 |
| 90 | 0 | 0 | 0 | 1.134 | 55.64 | 669 | 55.61 | 669 |
| 100 | 0 | 0 | 0 | 1.134 | 55.75 | 667 | 55.71 | 668 |
| 110 | 0 | 0 | 0 | 1.134 | 55.84 | 666 | 55.81 | 667 |
| 120 | 0 | 0 | 0 | 1.134 | 55.91 | 666 | 55.91 | 666 |
| 130 | 0 | 0 | 0 | 1.134 | 55.98 | 665 | 55.98 | 665 |
| 167 | 0 | 0 | 0 | 1.134 | 56.21 | 662 | 56.21 | 662 |
| 212 | 0 | 0 | 0 | 1.134 | 56.49 | 660 | 56.49 | 660 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 100.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 125.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 |
| 150.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-8 |
| 175.00 | 4-10 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 | 7-5 | 7-8 |
| 200.00 | 6-4 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-8 | 10-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 125.00 | 2-6 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 |
| 150.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 |
| 175.00 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-3 | 7-6 | 7-8 |
| 200.00 | 6-6 | 7-0 | 7-5 | 7-11 | 8-4 | 8-9 | 9-1 | 9-6 | 9-10 | 10-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 |
| 125.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 150.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 |
| 175.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 200.00 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 8-11 |
| 225.00 | 10-2 | 10-3 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 |
| 250.00 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 |
| 125.00 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 |
| 150.00 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 |
| 175.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 |
| 200.00 | 8-0 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 |
| 225.00 | 10-2 | 10-4 | 10-5 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 |
| 250.00 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-8 | 4-9 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 |
| 175.00 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 200.00 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 |
| 225.00 | 10-7 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 |
| 250.00 | 13-1 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 |
| 275.00 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 |
| 300.00 | 18-10 | 18-11 | 19-0 | 19-2 | 19-3 | 19-4 | 19-5 | 19-7 | 19-8 | 19-9 |
| 325.00 | 22-1 | 22-3 | 22-4 | 22-6 | 22-7 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 |
| 350.00 | 25-8 | 25-10 | 25-11 | 26-1 | 26-3 | 26-5 | 26-6 | 26-8 | 26-10 | 26-11 |
| 375.00 | 29-6 | 29-8 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 |
| 175.00 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 200.00 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 |
| 225.00 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 |
| 250.00 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 |
| 275.00 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 |
| 300.00 | 18-10 | 18-11 | 19-1 | 19-2 | 19-3 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 |
| 325.00 | 22-2 | 22-3 | 22-5 | 22-6 | 22-8 | 22-9 | 22-11 | 23-0 | 23-2 | 23-3 |
| 350.00 | 25-8 | 25-10 | 26-0 | 26-2 | 26-3 | 26-5 | 26-7 | 26-9 | 26-10 | 27-0 |
| 375.00 | 29-7 | 29-9 | 29-11 | 30-1 | 30-2 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 |
| 225.00 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-1 |
| 250.00 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 |
| 275.00 | 16-2 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 |
| 300.00 | 19-3 | 19-3 | 19-4 | 19-5 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 |
| 325.00 | 22-7 | 22-8 | 22-9 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 |
| 350.00 | 26-3 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 |
| 375.00 | 30-1 | 30-3 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 |
| 400.00 | 34-4 | 34-5 | 34-6 | 34-7 | 34-9 | 34-10 | 34-11 | 35-0 | 35-2 | 35-3 |
| 425.00 | 38-9 | 38-11 | 39-0 | 39-2 | 39-3 | 39-4 | 39-6 | 39-7 | 39-9 | 39-10 |
| 450.00 | 43-6 | 43-8 | 43-10 | 43-11 | 44-1 | 44-2 | 44-4 | 44-6 | 44-7 | 44-9 |
| 475.00 | 48-7 | 48-9 | 48-10 | 49-0 | 49-2 | 49-4 | 49-6 | 49-7 | 49-9 | 49-11 |
| 500.00 | 53-11 | 54-1 | 54-3 | 54-5 | 54-7 | 54-9 | 54-11 | 55-1 | 55-3 | 55-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 |
| 225.00 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 |
| 250.00 | 13-4 | 13-5 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 |
| 275.00 | 16-2 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 |
| 300.00 | 19-3 | 19-4 | 19-4 | 19-5 | 19-6 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 |
| 325.00 | 22-7 | 22-8 | 22-9 | 22-10 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-2 |
| 350.00 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-9 | 26-10 | 26-11 |
| 375.00 | 30-2 | 30-3 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-11 | 31-0 |
| 400.00 | 34-4 | 34-5 | 34-7 | 34-8 | 34-9 | 34-10 | 35-0 | 35-1 | 35-2 | 35-3 |
| 425.00 | 38-10 | 38-11 | 39-1 | 39-2 | 39-3 | 39-5 | 39-6 | 39-8 | 39-9 | 39-10 |
| 450.00 | 43-7 | 43-8 | 43-10 | 44-0 | 44-1 | 44-3 | 44-4 | 44-6 | 44-8 | 44-9 |
| 475.00 | 48-7 | 48-9 | 48-11 | 49-1 | 49-3 | 49-4 | 49-6 | 49-8 | 49-10 | 49-11 |
| 500.00 | 53-11 | 54-1 | 54-3 | 54-5 | 54-7 | 54-9 | 54-11 | 55-1 | 55-3 | 55-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-7 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-9 |
| 275.00 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 |
| 300.00 | 19-7 | 19-7 | 19-8 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 |
| 325.00 | 23-0 | 23-0 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 |
| 350.00 | 26-8 | 26-9 | 26-9 | 26-10 | 26-11 | 26-11 | 27-0 | 27-0 | 27-1 | 27-2 |
| 375.00 | 30-8 | 30-9 | 30-9 | 30-10 | 30-11 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 |
| 400.00 | 34-11 | 35-0 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-5 | 35-5 | 35-6 |
| 425.00 | 39-6 | 39-7 | 39-8 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 |
| 450.00 | 44-4 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 |
| 475.00 | 49-5 | 49-7 | 49-8 | 49-9 | 49-10 | 49-11 | 50-0 | 50-1 | 50-2 | 50-4 |
| 500.00 | 54-11 | 55-0 | 55-1 | 55-2 | 55-4 | 55-5 | 55-6 | 55-7 | 55-9 | 55-10 |
| 525.00 | 60-7 | 60-9 | 60-10 | 60-11 | 61-1 | 61-2 | 61-4 | 61-5 | 61-6 | 61-8 |
| 550.00 | 66-8 | 66-9 | 66-11 | 67-0 | 67-2 | 67-3 | 67-5 | 67-6 | 67-8 | 67-9 |
| 575.00 | 72-11 | 73-1 | 73-3 | 73-4 | 73-6 | 73-8 | 73-9 | 73-11 | 74-1 | 74-2 |
| 600.00 | 79-7 | 79-9 | 79-11 | 80-0 | 80-2 | 80-4 | 80-6 | 80-8 | 80-9 | 80-11 |
| 625.00 | 86-6 | 86-8 | 86-10 | 87-0 | 87-2 | 87-4 | 87-6 | 87-8 | 87-10 | 88-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-7 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 |
| 275.00 | 16-5 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 |
| 300.00 | 19-7 | 19-7 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-11 |
| 325.00 | 23-0 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-5 |
| 350.00 | 26-8 | 26-9 | 26-10 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 |
| 375.00 | 30-8 | 30-9 | 30-10 | 30-10 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-2 |
| 400.00 | 34-11 | 35-0 | 35-1 | 35-2 | 35-3 | 35-3 | 35-4 | 35-5 | 35-6 | 35-6 |
| 425.00 | 39-6 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 39-11 | 40-0 | 40-1 | 40-2 |
| 450.00 | 44-4 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 |
| 475.00 | 49-6 | 49-7 | 49-8 | 49-9 | 49-10 | 49-11 | 50-1 | 50-2 | 50-3 | 50-4 |
| 500.00 | 54-11 | 55-0 | 55-1 | 55-3 | 55-4 | 55-5 | 55-6 | 55-8 | 55-9 | 55-10 |
| 525.00 | 60-8 | 60-9 | 60-10 | 61-0 | 61-1 | 61-3 | 61-4 | 61-5 | 61-7 | 61-8 |
| 550.00 | 66-8 | 66-10 | 66-11 | 67-1 | 67-2 | 67-4 | 67-5 | 67-7 | 67-8 | 67-10 |
| 575.00 | 73-0 | 73-2 | 73-3 | 73-5 | 73-7 | 73-8 | 73-10 | 74-0 | 74-1 | 74-3 |
| 600.00 | 79-7 | 79-9 | 79-11 | 80-1 | 80-3 | 80-5 | 80-6 | 80-8 | 80-10 | 81-0 |
| 625.00 | 86-7 | 86-9 | 86-11 | 87-1 | 87-3 | 87-5 | 87-7 | 87-9 | 87-11 | 88-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 1.69 | 2500 | 1.69 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 1.01 | 1400 | 0.97 | 1458 |
| 30 | 0 | 0 | 0 | 1.134 | 1.17 | 1208 | 1.13 | 1259 |
| 40 | 0 | 0 | 0 | 1.134 | 1.32 | 1071 | 1.27 | 1113 |
| 50 | 0 | 0 | 0 | 1.134 | 1.47 | 968 | 1.41 | 1003 |
| 60 | 0 | 0 | 0 | 1.134 | 1.6 | 888 | 1.55 | 918 |
| 70 | 0 | 0 | 0 | 1.134 | 1.72 | 824 | 1.67 | 850 |
| 80 | 0 | 0 | 0 | 1.134 | 1.84 | 772 | 1.79 | 794 |
| 90 | 0 | 0 | 0 | 1.134 | 1.95 | 728 | 1.9 | 747 |
| 100 | 0 | 0 | 0 | 1.134 | 2.06 | 691 | 2.01 | 708 |
| 110 | 0 | 0 | 0 | 1.134 | 2.14 | 663 | 2.11 | 674 |
| 120 | 0 | 0 | 0 | 1.134 | 2.2 | 647 | 2.2 | 647 |
| 130 | 0 | 0 | 0 | 1.134 | 2.25 | 632 | 2.25 | 632 |
| 167 | 0 | 0 | 0 | 1.134 | 2.44 | 583 | 2.43 | 584 |
| 212 | 0 | 0 | 0 | 1.134 | 2.65 | 536 | 2.65 | 537 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 6.79 | 2500 | 6.79 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 6.15 | 926 | 6.1 | 933 |
| 30 | 0 | 0 | 0 | 1.134 | 6.29 | 905 | 6.24 | 913 |
| 40 | 0 | 0 | 0 | 1.134 | 6.43 | 886 | 6.37 | 893 |
| 50 | 0 | 0 | 0 | 1.134 | 6.56 | 868 | 6.51 | 875 |
| 60 | 0 | 0 | 0 | 1.134 | 6.69 | 851 | 6.64 | 858 |
| 70 | 0 | 0 | 0 | 1.134 | 6.82 | 835 | 6.76 | 842 |
| 80 | 0 | 0 | 0 | 1.134 | 6.95 | 820 | 6.89 | 827 |
| 90 | 0 | 0 | 0 | 1.134 | 7.07 | 806 | 7.01 | 812 |
| 100 | 0 | 0 | 0 | 1.134 | 7.19 | 792 | 7.14 | 799 |
| 110 | 0 | 0 | 0 | 1.134 | 7.31 | 779 | 7.26 | 785 |
| 120 | 0 | 0 | 0 | 1.134 | 7.42 | 768 | 7.38 | 773 |
| 130 | 0 | 0 | 0 | 1.134 | 7.49 | 761 | 7.49 | 761 |
| 167 | 0 | 0 | 0 | 1.134 | 7.75 | 736 | 7.75 | 736 |
| 212 | 0 | 0 | 0 | 1.134 | 8.04 | 710 | 8.04 | 710 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 15.36 | 2500 | 15.36 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 14.73 | 874 | 14.68 | 877 |
| 30 | 0 | 0 | 0 | 1.134 | 14.87 | 867 | 14.81 | 870 |
| 40 | 0 | 0 | 0 | 1.134 | 15 | 859 | 14.95 | 862 |
| 50 | 0 | 0 | 0 | 1.134 | 15.13 | 852 | 15.08 | 855 |
| 60 | 0 | 0 | 0 | 1.134 | 15.26 | 845 | 15.21 | 848 |
| 70 | 0 | 0 | 0 | 1.134 | 15.39 | 838 | 15.34 | 841 |
| 80 | 0 | 0 | 0 | 1.134 | 15.52 | 831 | 15.46 | 834 |
| 90 | 0 | 0 | 0 | 1.134 | 15.65 | 824 | 15.59 | 827 |
| 100 | 0 | 0 | 0 | 1.134 | 15.77 | 818 | 15.72 | 821 |
| 110 | 0 | 0 | 0 | 1.134 | 15.9 | 811 | 15.84 | 814 |
| 120 | 0 | 0 | 0 | 1.134 | 16.03 | 805 | 15.97 | 808 |
| 130 | 0 | 0 | 0 | 1.134 | 16.11 | 801 | 16.09 | 802 |
| 167 | 0 | 0 | 0 | 1.134 | 16.39 | 788 | 16.39 | 788 |
| 212 | 0 | 0 | 0 | 1.134 | 16.72 | 773 | 16.72 | 773 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 27.53 | 2500 | 27.53 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 26.91 | 858 | 26.86 | 860 |
| 30 | 0 | 0 | 0 | 1.134 | 27.04 | 854 | 26.99 | 856 |
| 40 | 0 | 0 | 0 | 1.134 | 27.17 | 850 | 27.12 | 852 |
| 50 | 0 | 0 | 0 | 1.134 | 27.31 | 846 | 27.25 | 848 |
| 60 | 0 | 0 | 0 | 1.134 | 27.44 | 842 | 27.38 | 844 |
| 70 | 0 | 0 | 0 | 1.134 | 27.57 | 838 | 27.51 | 840 |
| 80 | 0 | 0 | 0 | 1.134 | 27.7 | 835 | 27.64 | 836 |
| 90 | 0 | 0 | 0 | 1.134 | 27.82 | 831 | 27.77 | 833 |
| 100 | 0 | 0 | 0 | 1.134 | 27.95 | 827 | 27.9 | 829 |
| 110 | 0 | 0 | 0 | 1.134 | 28.08 | 824 | 28.02 | 825 |
| 120 | 0 | 0 | 0 | 1.134 | 28.21 | 820 | 28.15 | 822 |
| 130 | 0 | 0 | 0 | 1.134 | 28.31 | 817 | 28.27 | 818 |
| 167 | 0 | 0 | 0 | 1.134 | 28.6 | 809 | 28.6 | 809 |
| 212 | 0 | 0 | 0 | 1.134 | 28.94 | 800 | 28.94 | 800 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 43.5 | 2500 | 43.5 | 2500* |
| 20 | 0 | 0 | 0 | 1.134 | 42.88 | 851 | 42.83 | 852 |
| 30 | 0 | 0 | 0 | 1.134 | 43.01 | 848 | 42.96 | 849 |
| 40 | 0 | 0 | 0 | 1.134 | 43.14 | 846 | 43.09 | 847 |
| 50 | 0 | 0 | 0 | 1.134 | 43.27 | 844 | 43.22 | 844 |
| 60 | 0 | 0 | 0 | 1.134 | 43.4 | 841 | 43.35 | 842 |
| 70 | 0 | 0 | 0 | 1.134 | 43.53 | 839 | 43.48 | 840 |
| 80 | 0 | 0 | 0 | 1.134 | 43.66 | 836 | 43.61 | 837 |
| 90 | 0 | 0 | 0 | 1.134 | 43.79 | 834 | 43.74 | 835 |
| 100 | 0 | 0 | 0 | 1.134 | 43.92 | 832 | 43.86 | 833 |
| 110 | 0 | 0 | 0 | 1.134 | 44.05 | 830 | 43.99 | 831 |
| 120 | 0 | 0 | 0 | 1.134 | 44.18 | 827 | 44.12 | 828 |
| 130 | 0 | 0 | 0 | 1.134 | 44.28 | 825 | 44.25 | 826 |
| 167 | 0 | 0 | 0 | 1.134 | 44.58 | 820 | 44.58 | 820 |
| 212 | 0 | 0 | 0 | 1.134 | 44.92 | 814 | 44.92 | 814 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 |
| 125.00 | 1-6 | 1-9 | 2-0 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 |
| 150.00 | 2-2 | 2-6 | 2-10 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 |
| 175.00 | 3-0 | 3-5 | 3-11 | 4-4 | 4-9 | 5-1 | 5-6 | 5-10 | 6-2 | 6-6 |
| 200.00 | 3-11 | 4-6 | 5-1 | 5-8 | 6-2 | 6-8 | 7-2 | 7-7 | 8-0 | 8-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 |
| 125.00 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-4 |
| 150.00 | 2-3 | 2-8 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 |
| 175.00 | 3-1 | 3-7 | 4-1 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-7 |
| 200.00 | 4-1 | 4-8 | 5-4 | 5-10 | 6-5 | 6-11 | 7-4 | 7-10 | 8-3 | 8-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 |
| 125.00 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 |
| 150.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 |
| 175.00 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 |
| 200.00 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 |
| 225.00 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 |
| 250.00 | 9-6 | 9-9 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 | 11-0 | 11-2 | 11-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 |
| 125.00 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 |
| 150.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 |
| 175.00 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 200.00 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 |
| 225.00 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 |
| 250.00 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 | 10-8 | 10-10 | 11-1 | 11-3 | 11-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 |
| 175.00 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 200.00 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 |
| 225.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 |
| 250.00 | 10-2 | 10-3 | 10-4 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 |
| 275.00 | 12-4 | 12-5 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 | 13-4 |
| 300.00 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-4 | 15-6 | 15-7 | 15-9 | 15-10 |
| 325.00 | 17-3 | 17-5 | 17-7 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 |
| 350.00 | 20-0 | 20-2 | 20-4 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 |
| 375.00 | 23-0 | 23-2 | 23-5 | 23-7 | 23-10 | 24-0 | 24-3 | 24-5 | 24-7 | 24-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 |
| 175.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 |
| 200.00 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 |
| 225.00 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 |
| 250.00 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 |
| 275.00 | 12-4 | 12-6 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 | 13-2 | 13-3 | 13-4 |
| 300.00 | 14-9 | 14-10 | 15-0 | 15-2 | 15-3 | 15-5 | 15-6 | 15-8 | 15-9 | 15-11 |
| 325.00 | 17-4 | 17-5 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-6 | 18-8 |
| 350.00 | 20-1 | 20-3 | 20-5 | 20-7 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 |
| 375.00 | 23-1 | 23-3 | 23-6 | 23-8 | 23-11 | 24-1 | 24-4 | 24-6 | 24-8 | 24-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-8 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 |
| 225.00 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 |
| 250.00 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 |
| 275.00 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-2 |
| 300.00 | 15-1 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 |
| 325.00 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-4 | 18-5 | 18-6 |
| 350.00 | 20-6 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 | 21-5 |
| 375.00 | 23-7 | 23-8 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-5 | 24-6 | 24-7 |
| 400.00 | 26-10 | 27-0 | 27-1 | 27-3 | 27-5 | 27-6 | 27-8 | 27-9 | 27-11 | 28-0 |
| 425.00 | 30-4 | 30-6 | 30-8 | 30-9 | 30-11 | 31-1 | 31-3 | 31-4 | 31-6 | 31-8 |
| 450.00 | 34-1 | 34-3 | 34-5 | 34-7 | 34-9 | 34-11 | 35-0 | 35-2 | 35-4 | 35-6 |
| 475.00 | 38-0 | 38-2 | 38-4 | 38-6 | 38-9 | 38-11 | 39-1 | 39-3 | 39-5 | 39-7 |
| 500.00 | 42-1 | 42-4 | 42-6 | 42-9 | 42-11 | 43-2 | 43-4 | 43-7 | 43-9 | 43-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 |
| 225.00 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 |
| 250.00 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 10-11 |
| 275.00 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 | 13-3 |
| 300.00 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-6 | 15-7 | 15-8 | 15-9 |
| 325.00 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 |
| 350.00 | 20-7 | 20-8 | 20-9 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-6 |
| 375.00 | 23-8 | 23-9 | 23-10 | 24-0 | 24-1 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 |
| 400.00 | 26-11 | 27-1 | 27-2 | 27-4 | 27-5 | 27-7 | 27-8 | 27-10 | 27-11 | 28-1 |
| 425.00 | 30-5 | 30-7 | 30-8 | 30-10 | 31-0 | 31-2 | 31-3 | 31-5 | 31-7 | 31-9 |
| 450.00 | 34-1 | 34-3 | 34-5 | 34-7 | 34-9 | 34-11 | 35-1 | 35-3 | 35-5 | 35-7 |
| 475.00 | 38-0 | 38-3 | 38-5 | 38-7 | 38-9 | 39-0 | 39-2 | 39-4 | 39-6 | 39-8 |
| 500.00 | 42-2 | 42-5 | 42-7 | 42-10 | 43-0 | 43-3 | 43-5 | 43-8 | 43-10 | 44-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 |
| 275.00 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 |
| 300.00 | 15-4 | 15-4 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 |
| 325.00 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-6 |
| 350.00 | 20-11 | 20-11 | 21-0 | 21-1 | 21-2 | 21-2 | 21-3 | 21-4 | 21-5 | 21-5 |
| 375.00 | 24-0 | 24-1 | 24-2 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 |
| 400.00 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 |
| 425.00 | 30-10 | 30-11 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 |
| 450.00 | 34-8 | 34-9 | 34-10 | 34-11 | 35-1 | 35-2 | 35-3 | 35-4 | 35-6 | 35-7 |
| 475.00 | 38-7 | 38-9 | 38-10 | 39-0 | 39-1 | 39-2 | 39-4 | 39-5 | 39-7 | 39-8 |
| 500.00 | 42-10 | 43-0 | 43-1 | 43-3 | 43-4 | 43-6 | 43-7 | 43-9 | 43-10 | 44-0 |
| 525.00 | 47-3 | 47-5 | 47-7 | 47-8 | 47-10 | 48-0 | 48-2 | 48-3 | 48-5 | 48-7 |
| 550.00 | 51-11 | 52-1 | 52-3 | 52-5 | 52-7 | 52-9 | 52-11 | 53-0 | 53-2 | 53-4 |
| 575.00 | 56-10 | 57-0 | 57-2 | 57-4 | 57-6 | 57-8 | 57-10 | 58-0 | 58-2 | 58-4 |
| 600.00 | 61-11 | 62-2 | 62-4 | 62-6 | 62-8 | 62-11 | 63-1 | 63-3 | 63-5 | 63-8 |
| 625.00 | 67-3 | 67-6 | 67-8 | 67-11 | 68-1 | 68-4 | 68-6 | 68-9 | 68-11 | 69-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 |
| 275.00 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 |
| 300.00 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-9 | 15-9 |
| 325.00 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-5 | 18-6 |
| 350.00 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-5 | 21-6 |
| 375.00 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-8 |
| 400.00 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 |
| 425.00 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-6 | 31-7 | 31-8 | 31-9 |
| 450.00 | 34-8 | 34-9 | 34-11 | 35-0 | 35-1 | 35-2 | 35-4 | 35-5 | 35-6 | 35-7 |
| 475.00 | 38-8 | 38-9 | 38-11 | 39-0 | 39-2 | 39-3 | 39-4 | 39-6 | 39-7 | 39-9 |
| 500.00 | 42-11 | 43-0 | 43-2 | 43-3 | 43-5 | 43-6 | 43-8 | 43-10 | 43-11 | 44-1 |
| 525.00 | 47-4 | 47-6 | 47-7 | 47-9 | 47-11 | 48-1 | 48-2 | 48-4 | 48-6 | 48-7 |
| 550.00 | 52-0 | 52-2 | 52-4 | 52-6 | 52-8 | 52-9 | 52-11 | 53-1 | 53-3 | 53-5 |
| 575.00 | 56-11 | 57-1 | 57-3 | 57-5 | 57-7 | 57-9 | 57-11 | 58-1 | 58-3 | 58-5 |
| 600.00 | 62-0 | 62-2 | 62-5 | 62-7 | 62-9 | 63-0 | 63-2 | 63-4 | 63-6 | 63-9 |
| 625.00 | 67-4 | 67-7 | 67-9 | 68-0 | 68-2 | 68-5 | 68-7 | 68-10 | 69-0 | 69-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 1.41 | 2994 | 1.41 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 0.61 | 2342 | 0.58 | 2425 |
| 30 | 0 | 0 | 0 | 1.134 | 0.76 | 1857 | 0.72 | 1974 |
| 40 | 0 | 0 | 0 | 1.134 | 0.93 | 1522 | 0.87 | 1632 |
| 50 | 0 | 0 | 0 | 1.134 | 1.1 | 1293 | 1.02 | 1384 |
| 60 | 0 | 0 | 0 | 1.134 | 1.25 | 1132 | 1.18 | 1205 |
| 70 | 0 | 0 | 0 | 1.134 | 1.4 | 1014 | 1.32 | 1073 |
| 80 | 0 | 0 | 0 | 1.134 | 1.54 | 924 | 1.46 | 972 |
| 90 | 0 | 0 | 0 | 1.134 | 1.66 | 853 | 1.59 | 893 |
| 100 | 0 | 0 | 0 | 1.134 | 1.78 | 796 | 1.71 | 830 |
| 110 | 0 | 0 | 0 | 1.134 | 1.9 | 748 | 1.83 | 777 |
| 120 | 0 | 0 | 0 | 1.134 | 1.97 | 721 | 1.94 | 733 |
| 130 | 0 | 0 | 0 | 1.134 | 2.02 | 701 | 2.02 | 703 |
| 167 | 0 | 0 | 0 | 1.134 | 2.22 | 639 | 2.22 | 641 |
| 212 | 0 | 0 | 0 | 1.134 | 2.45 | 580 | 2.44 | 582 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 5.65 | 3000 | 5.65 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 4.82 | 1180 | 4.74 | 1199 |
| 30 | 0 | 0 | 0 | 1.134 | 4.99 | 1139 | 4.91 | 1157 |
| 40 | 0 | 0 | 0 | 1.134 | 5.16 | 1102 | 5.08 | 1119 |
| 50 | 0 | 0 | 0 | 1.134 | 5.32 | 1069 | 5.24 | 1085 |
| 60 | 0 | 0 | 0 | 1.134 | 5.48 | 1038 | 5.4 | 1053 |
| 70 | 0 | 0 | 0 | 1.134 | 5.63 | 1010 | 5.55 | 1024 |
| 80 | 0 | 0 | 0 | 1.134 | 5.78 | 984 | 5.7 | 997 |
| 90 | 0 | 0 | 0 | 1.134 | 5.93 | 959 | 5.85 | 972 |
| 100 | 0 | 0 | 0 | 1.134 | 6.07 | 937 | 5.99 | 949 |
| 110 | 0 | 0 | 0 | 1.134 | 6.22 | 916 | 6.14 | 928 |
| 120 | 0 | 0 | 0 | 1.134 | 6.35 | 896 | 6.27 | 907 |
| 130 | 0 | 0 | 0 | 1.134 | 6.48 | 878 | 6.41 | 888 |
| 167 | 0 | 0 | 0 | 1.134 | 6.77 | 842 | 6.77 | 842 |
| 212 | 0 | 0 | 0 | 1.134 | 7.09 | 804 | 7.09 | 804 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 12.76 | 3000 | 12.76 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 11.95 | 1075 | 11.87 | 1082 |
| 30 | 0 | 0 | 0 | 1.134 | 12.11 | 1060 | 12.03 | 1067 |
| 40 | 0 | 0 | 0 | 1.134 | 12.27 | 1047 | 12.19 | 1053 |
| 50 | 0 | 0 | 0 | 1.134 | 12.43 | 1033 | 12.35 | 1040 |
| 60 | 0 | 0 | 0 | 1.134 | 12.59 | 1021 | 12.51 | 1027 |
| 70 | 0 | 0 | 0 | 1.134 | 12.74 | 1008 | 12.66 | 1015 |
| 80 | 0 | 0 | 0 | 1.134 | 12.9 | 996 | 12.82 | 1003 |
| 90 | 0 | 0 | 0 | 1.134 | 13.05 | 985 | 12.97 | 991 |
| 100 | 0 | 0 | 0 | 1.134 | 13.2 | 974 | 13.12 | 980 |
| 110 | 0 | 0 | 0 | 1.134 | 13.35 | 963 | 13.26 | 969 |
| 120 | 0 | 0 | 0 | 1.134 | 13.5 | 953 | 13.41 | 959 |
| 130 | 0 | 0 | 0 | 1.134 | 13.64 | 943 | 13.56 | 949 |
| 167 | 0 | 0 | 0 | 1.134 | 14 | 919 | 14 | 919 |
| 212 | 0 | 0 | 0 | 1.134 | 14.37 | 896 | 14.37 | 896 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 22.81 | 3000 | 22.81 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 22.01 | 1043 | 21.93 | 1047 |
| 30 | 0 | 0 | 0 | 1.134 | 22.17 | 1036 | 22.09 | 1039 |
| 40 | 0 | 0 | 0 | 1.134 | 22.32 | 1029 | 22.25 | 1032 |
| 50 | 0 | 0 | 0 | 1.134 | 22.48 | 1022 | 22.4 | 1025 |
| 60 | 0 | 0 | 0 | 1.134 | 22.64 | 1015 | 22.56 | 1018 |
| 70 | 0 | 0 | 0 | 1.134 | 22.8 | 1008 | 22.71 | 1011 |
| 80 | 0 | 0 | 0 | 1.134 | 22.95 | 1001 | 22.87 | 1005 |
| 90 | 0 | 0 | 0 | 1.134 | 23.1 | 995 | 23.02 | 998 |
| 100 | 0 | 0 | 0 | 1.134 | 23.26 | 988 | 23.17 | 992 |
| 110 | 0 | 0 | 0 | 1.134 | 23.41 | 982 | 23.32 | 986 |
| 120 | 0 | 0 | 0 | 1.134 | 23.56 | 976 | 23.47 | 979 |
| 130 | 0 | 0 | 0 | 1.134 | 23.71 | 970 | 23.62 | 973 |
| 167 | 0 | 0 | 0 | 1.134 | 24.11 | 954 | 24.11 | 954 |
| 212 | 0 | 0 | 0 | 1.134 | 24.5 | 940 | 24.5 | 940 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.378 | 35.91 | 3000 | 35.91 | 3000* |
| 20 | 0 | 0 | 0 | 1.134 | 35.11 | 1029 | 35.03 | 1031 |
| 30 | 0 | 0 | 0 | 1.134 | 35.27 | 1025 | 35.19 | 1027 |
| 40 | 0 | 0 | 0 | 1.134 | 35.43 | 1020 | 35.35 | 1023 |
| 50 | 0 | 0 | 0 | 1.134 | 35.58 | 1016 | 35.5 | 1018 |
| 60 | 0 | 0 | 0 | 1.134 | 35.74 | 1012 | 35.66 | 1014 |
| 70 | 0 | 0 | 0 | 1.134 | 35.9 | 1008 | 35.81 | 1010 |
| 80 | 0 | 0 | 0 | 1.134 | 36.05 | 1003 | 35.97 | 1006 |
| 90 | 0 | 0 | 0 | 1.134 | 36.21 | 999 | 36.12 | 1002 |
| 100 | 0 | 0 | 0 | 1.134 | 36.36 | 995 | 36.28 | 998 |
| 110 | 0 | 0 | 0 | 1.134 | 36.51 | 991 | 36.43 | 994 |
| 120 | 0 | 0 | 0 | 1.134 | 36.67 | 987 | 36.58 | 990 |
| 130 | 0 | 0 | 0 | 1.134 | 36.82 | 983 | 36.73 | 986 |
| 167 | 0 | 0 | 0 | 1.134 | 37.24 | 973 | 37.24 | 973 |
| 212 | 0 | 0 | 0 | 1.134 | 37.64 | 963 | 37.64 | 963 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 100.00 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 |
| 125.00 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 |
| 150.00 | 1-4 | 1-7 | 1-11 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 |
| 175.00 | 1-9 | 2-2 | 2-8 | 3-2 | 3-7 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 |
| 200.00 | 2-4 | 2-10 | 3-6 | 4-1 | 4-9 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 100.00 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 125.00 | 0-11 | 1-2 | 1-5 | 1-9 | 1-11 | 2-2 | 2-5 | 2-7 | 2-9 | 3-0 |
| 150.00 | 1-4 | 1-9 | 2-1 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 |
| 175.00 | 1-10 | 2-4 | 2-10 | 3-4 | 3-10 | 4-3 | 4-8 | 5-1 | 5-6 | 5-10 |
| 200.00 | 2-5 | 3-1 | 3-9 | 4-5 | 5-0 | 5-7 | 6-2 | 6-8 | 7-2 | 7-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 |
| 125.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 |
| 150.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 175.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 |
| 200.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-2 |
| 225.00 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 |
| 250.00 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 125.00 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 |
| 150.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 175.00 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 |
| 200.00 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-3 |
| 225.00 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 |
| 250.00 | 7-6 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 | 9-6 | 9-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 |
| 175.00 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 |
| 200.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 225.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 250.00 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 |
| 275.00 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 |
| 300.00 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 |
| 325.00 | 13-11 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-1 | 15-3 | 15-5 | 15-7 |
| 350.00 | 16-2 | 16-5 | 16-7 | 16-10 | 17-0 | 17-3 | 17-6 | 17-8 | 17-10 | 18-1 |
| 375.00 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 | 19-10 | 20-1 | 20-3 | 20-6 | 20-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 |
| 175.00 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 |
| 200.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 |
| 225.00 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 |
| 250.00 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 |
| 275.00 | 10-0 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 |
| 300.00 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 |
| 325.00 | 14-0 | 14-3 | 14-5 | 14-7 | 14-9 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 |
| 350.00 | 16-3 | 16-6 | 16-9 | 16-11 | 17-2 | 17-4 | 17-7 | 17-9 | 18-0 | 18-2 |
| 375.00 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 | 20-5 | 20-8 | 20-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 |
| 225.00 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 |
| 250.00 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 |
| 275.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 11-0 |
| 300.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 |
| 325.00 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 |
| 350.00 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 |
| 375.00 | 19-3 | 19-5 | 19-7 | 19-8 | 19-10 | 19-11 | 20-1 | 20-3 | 20-4 | 20-6 |
| 400.00 | 21-11 | 22-1 | 22-3 | 22-5 | 22-7 | 22-9 | 22-10 | 23-0 | 23-2 | 23-4 |
| 425.00 | 24-9 | 24-11 | 25-2 | 25-4 | 25-6 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 |
| 450.00 | 27-9 | 28-0 | 28-2 | 28-5 | 28-7 | 28-9 | 29-0 | 29-2 | 29-4 | 29-7 |
| 475.00 | 31-0 | 31-2 | 31-5 | 31-8 | 31-10 | 32-1 | 32-4 | 32-6 | 32-9 | 32-11 |
| 500.00 | 34-4 | 34-7 | 34-10 | 35-1 | 35-4 | 35-7 | 35-10 | 36-1 | 36-4 | 36-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 |
| 225.00 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 |
| 250.00 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 |
| 275.00 | 10-5 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-0 |
| 300.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 |
| 325.00 | 14-6 | 14-7 | 14-9 | 14-10 | 14-11 | 15-0 | 15-2 | 15-3 | 15-4 | 15-5 |
| 350.00 | 16-10 | 16-11 | 17-1 | 17-2 | 17-4 | 17-5 | 17-7 | 17-8 | 17-9 | 17-11 |
| 375.00 | 19-4 | 19-6 | 19-7 | 19-9 | 19-11 | 20-0 | 20-2 | 20-4 | 20-5 | 20-7 |
| 400.00 | 22-0 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 22-11 | 23-1 | 23-3 | 23-5 |
| 425.00 | 24-10 | 25-0 | 25-3 | 25-5 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 |
| 450.00 | 27-11 | 28-1 | 28-3 | 28-6 | 28-8 | 28-11 | 29-1 | 29-3 | 29-6 | 29-8 |
| 475.00 | 31-1 | 31-4 | 31-6 | 31-9 | 32-0 | 32-2 | 32-5 | 32-8 | 32-10 | 33-1 |
| 500.00 | 34-6 | 34-9 | 35-0 | 35-3 | 35-6 | 35-8 | 35-11 | 36-2 | 36-5 | 36-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 |
| 275.00 | 10-7 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 |
| 300.00 | 12-7 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 |
| 325.00 | 14-9 | 14-10 | 14-11 | 14-11 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-4 |
| 350.00 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-9 |
| 375.00 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 |
| 400.00 | 22-4 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-3 |
| 425.00 | 25-3 | 25-5 | 25-6 | 25-7 | 25-9 | 25-10 | 25-11 | 26-1 | 26-2 | 26-3 |
| 450.00 | 28-4 | 28-6 | 28-7 | 28-9 | 28-10 | 29-0 | 29-1 | 29-3 | 29-4 | 29-6 |
| 475.00 | 31-7 | 31-9 | 31-11 | 32-0 | 32-2 | 32-4 | 32-5 | 32-7 | 32-9 | 32-10 |
| 500.00 | 35-0 | 35-2 | 35-4 | 35-6 | 35-8 | 35-10 | 36-0 | 36-1 | 36-3 | 36-5 |
| 525.00 | 38-8 | 38-10 | 39-0 | 39-2 | 39-4 | 39-6 | 39-8 | 39-10 | 40-0 | 40-2 |
| 550.00 | 42-5 | 42-8 | 42-10 | 43-0 | 43-2 | 43-5 | 43-7 | 43-9 | 43-11 | 44-2 |
| 575.00 | 46-5 | 46-8 | 46-10 | 47-1 | 47-3 | 47-6 | 47-8 | 47-11 | 48-1 | 48-3 |
| 600.00 | 50-7 | 50-10 | 51-1 | 51-3 | 51-6 | 51-9 | 51-11 | 52-2 | 52-5 | 52-7 |
| 625.00 | 54-11 | 55-2 | 55-5 | 55-8 | 55-11 | 56-2 | 56-5 | 56-8 | 56-11 | 57-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 |
| 275.00 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 |
| 300.00 | 12-7 | 12-8 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 |
| 325.00 | 14-9 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 |
| 350.00 | 17-2 | 17-3 | 17-4 | 17-5 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 |
| 375.00 | 19-8 | 19-9 | 19-10 | 19-11 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 |
| 400.00 | 22-5 | 22-6 | 22-7 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-3 | 23-4 |
| 425.00 | 25-4 | 25-5 | 25-7 | 25-8 | 25-9 | 25-11 | 26-0 | 26-1 | 26-3 | 26-4 |
| 450.00 | 28-5 | 28-6 | 28-8 | 28-9 | 28-11 | 29-0 | 29-2 | 29-3 | 29-5 | 29-6 |
| 475.00 | 31-8 | 31-10 | 31-11 | 32-1 | 32-3 | 32-4 | 32-6 | 32-8 | 32-10 | 32-11 |
| 500.00 | 35-1 | 35-3 | 35-5 | 35-7 | 35-9 | 35-11 | 36-1 | 36-2 | 36-4 | 36-6 |
| 525.00 | 38-9 | 38-11 | 39-1 | 39-3 | 39-5 | 39-7 | 39-9 | 39-11 | 40-1 | 40-3 |
| 550.00 | 42-6 | 42-9 | 42-11 | 43-1 | 43-4 | 43-6 | 43-8 | 43-10 | 44-1 | 44-3 |
| 575.00 | 46-6 | 46-9 | 46-11 | 47-2 | 47-4 | 47-7 | 47-9 | 48-0 | 48-2 | 48-5 |
| 600.00 | 50-8 | 50-11 | 51-2 | 51-5 | 51-7 | 51-10 | 52-1 | 52-4 | 52-6 | 52-9 |
| 625.00 | 55-1 | 55-4 | 55-7 | 55-10 | 56-1 | 56-4 | 56-7 | 56-9 | 57-0 | 57-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 4.25 | 1000 | 4.25 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 4.1 | 348 | 4.09 | 349 |
| 30 | 0 | 0 | 0 | 1.134 | 4.27 | 335 | 4.26 | 335 |
| 40 | 0 | 0 | 0 | 1.134 | 4.32 | 331 | 4.31 | 331 |
| 50 | 0 | 0 | 0 | 1.134 | 4.37 | 327 | 4.36 | 327 |
| 60 | 0 | 0 | 0 | 1.134 | 4.42 | 323 | 4.41 | 324 |
| 70 | 0 | 0 | 0 | 1.134 | 4.46 | 320 | 4.46 | 320 |
| 80 | 0 | 0 | 0 | 1.134 | 4.5 | 318 | 4.5 | 318 |
| 90 | 0 | 0 | 0 | 1.134 | 4.53 | 316 | 4.53 | 316 |
| 100 | 0 | 0 | 0 | 1.134 | 4.56 | 314 | 4.56 | 314 |
| 110 | 0 | 0 | 0 | 1.134 | 4.59 | 312 | 4.59 | 312 |
| 120 | 0 | 0 | 0 | 1.134 | 4.62 | 310 | 4.62 | 310 |
| 130 | 0 | 0 | 0 | 1.134 | 4.65 | 308 | 4.65 | 308 |
| 167 | 0 | 0 | 0 | 1.134 | 4.75 | 301 | 4.75 | 301 |
| 212 | 0 | 0 | 0 | 1.134 | 4.88 | 293 | 4.88 | 293 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 17.4 | 1000 | 17.4 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 17.25 | 338 | 17.24 | 339 |
| 30 | 0 | 0 | 0 | 1.134 | 17.42 | 335 | 17.41 | 336 |
| 40 | 0 | 0 | 0 | 1.134 | 17.47 | 335 | 17.46 | 335 |
| 50 | 0 | 0 | 0 | 1.134 | 17.52 | 334 | 17.51 | 334 |
| 60 | 0 | 0 | 0 | 1.134 | 17.57 | 333 | 17.56 | 333 |
| 70 | 0 | 0 | 0 | 1.134 | 17.62 | 332 | 17.61 | 332 |
| 80 | 0 | 0 | 0 | 1.134 | 17.66 | 331 | 17.66 | 331 |
| 90 | 0 | 0 | 0 | 1.134 | 17.69 | 331 | 17.69 | 331 |
| 100 | 0 | 0 | 0 | 1.134 | 17.72 | 330 | 17.72 | 330 |
| 110 | 0 | 0 | 0 | 1.134 | 17.75 | 330 | 17.75 | 330 |
| 120 | 0 | 0 | 0 | 1.134 | 17.78 | 329 | 17.78 | 329 |
| 130 | 0 | 0 | 0 | 1.134 | 17.81 | 328 | 17.81 | 328 |
| 167 | 0 | 0 | 0 | 1.134 | 17.93 | 326 | 17.93 | 326 |
| 212 | 0 | 0 | 0 | 1.134 | 18.07 | 324 | 18.07 | 324 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 40.83 | 1000 | 40.83 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 40.68 | 337 | 40.67 | 337 |
| 30 | 0 | 0 | 0 | 1.134 | 40.84 | 336 | 40.84 | 336 |
| 40 | 0 | 0 | 0 | 1.134 | 40.9 | 335 | 40.89 | 335 |
| 50 | 0 | 0 | 0 | 1.134 | 40.95 | 335 | 40.94 | 335 |
| 60 | 0 | 0 | 0 | 1.134 | 41 | 335 | 40.99 | 335 |
| 70 | 0 | 0 | 0 | 1.134 | 41.05 | 334 | 41.04 | 334 |
| 80 | 0 | 0 | 0 | 1.134 | 41.09 | 334 | 41.09 | 334 |
| 90 | 0 | 0 | 0 | 1.134 | 41.12 | 334 | 41.12 | 334 |
| 100 | 0 | 0 | 0 | 1.134 | 41.15 | 333 | 41.15 | 333 |
| 110 | 0 | 0 | 0 | 1.134 | 41.18 | 333 | 41.18 | 333 |
| 120 | 0 | 0 | 0 | 1.134 | 41.21 | 333 | 41.21 | 333 |
| 130 | 0 | 0 | 0 | 1.134 | 41.24 | 333 | 41.24 | 333 |
| 167 | 0 | 0 | 0 | 1.134 | 41.36 | 332 | 41.36 | 332 |
| 212 | 0 | 0 | 0 | 1.134 | 41.5 | 331 | 41.5 | 331 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 77.91 | 1000 | 77.91 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 77.77 | 336 | 77.76 | 336 |
| 30 | 0 | 0 | 0 | 1.134 | 77.93 | 336 | 77.92 | 336 |
| 40 | 0 | 0 | 0 | 1.134 | 77.98 | 336 | 77.97 | 336 |
| 50 | 0 | 0 | 0 | 1.134 | 78.03 | 335 | 78.02 | 335 |
| 60 | 0 | 0 | 0 | 1.134 | 78.08 | 335 | 78.07 | 335 |
| 70 | 0 | 0 | 0 | 1.134 | 78.13 | 335 | 78.12 | 335 |
| 80 | 0 | 0 | 0 | 1.134 | 78.17 | 335 | 78.17 | 335 |
| 90 | 0 | 0 | 0 | 1.134 | 78.2 | 335 | 78.2 | 335 |
| 100 | 0 | 0 | 0 | 1.134 | 78.23 | 335 | 78.23 | 335 |
| 110 | 0 | 0 | 0 | 1.134 | 78.26 | 335 | 78.26 | 335 |
| 120 | 0 | 0 | 0 | 1.134 | 78.29 | 335 | 78.29 | 335 |
| 130 | 0 | 0 | 0 | 1.134 | 78.33 | 334 | 78.33 | 334 |
| 167 | 0 | 0 | 0 | 1.134 | 78.44 | 334 | 78.44 | 334 |
| 212 | 0 | 0 | 0 | 1.134 | 78.58 | 334 | 78.58 | 334 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 138.56 | 1000 | 138.56 | 1000* |
| 0 | 0 | 0 | 0 | 1.134 | 138.41 | 336 | 138.41 | 336 |
| 30 | 0 | 0 | 0 | 1.134 | 138.57 | 336 | 138.56 | 336 |
| 40 | 0 | 0 | 0 | 1.134 | 138.62 | 336 | 138.61 | 336 |
| 50 | 0 | 0 | 0 | 1.134 | 138.67 | 336 | 138.66 | 336 |
| 60 | 0 | 0 | 0 | 1.134 | 138.72 | 336 | 138.71 | 336 |
| 70 | 0 | 0 | 0 | 1.134 | 138.77 | 335 | 138.76 | 335 |
| 80 | 0 | 0 | 0 | 1.134 | 138.81 | 335 | 138.81 | 335 |
| 90 | 0 | 0 | 0 | 1.134 | 138.84 | 335 | 138.84 | 335 |
| 100 | 0 | 0 | 0 | 1.134 | 138.87 | 335 | 138.87 | 335 |
| 110 | 0 | 0 | 0 | 1.134 | 138.9 | 335 | 138.9 | 335 |
| 120 | 0 | 0 | 0 | 1.134 | 138.93 | 335 | 138.93 | 335 |
| 130 | 0 | 0 | 0 | 1.134 | 138.96 | 335 | 138.96 | 335 |
| 167 | 0 | 0 | 0 | 1.134 | 139.07 | 335 | 139.07 | 335 |
| 212 | 0 | 0 | 0 | 1.134 | 139.21 | 335 | 139.21 | 335 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 |
| 100.00 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 |
| 125.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 |
| 150.00 | 9-6 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 |
| 175.00 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 |
| 200.00 | 16-11 | 17-2 | 17-4 | 17-7 | 17-9 | 18-0 | 18-2 | 18-3 | 18-5 | 18-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 |
| 100.00 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 |
| 125.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 |
| 150.00 | 9-6 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 |
| 175.00 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 |
| 200.00 | 17-0 | 17-2 | 17-5 | 17-7 | 17-10 | 18-0 | 18-2 | 18-3 | 18-5 | 18-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-5 |
| 125.00 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 |
| 150.00 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 9-11 |
| 175.00 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-7 |
| 200.00 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 |
| 225.00 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 |
| 250.00 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-10 | 27-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-5 |
| 125.00 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 |
| 150.00 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 9-11 |
| 175.00 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-7 |
| 200.00 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 |
| 225.00 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 |
| 250.00 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-10 | 27-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 |
| 175.00 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-10 |
| 200.00 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 | 18-0 | 18-0 | 18-1 | 18-1 |
| 225.00 | 22-8 | 22-9 | 22-9 | 22-10 | 22-10 | 22-10 | 22-10 | 22-11 | 22-11 | 22-11 |
| 250.00 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 | 28-4 | 28-4 | 28-4 | 28-4 | 28-5 |
| 275.00 | 34-2 | 34-2 | 34-3 | 34-3 | 34-4 | 34-4 | 34-5 | 34-5 | 34-5 | 34-6 |
| 300.00 | 40-9 | 40-10 | 40-11 | 40-11 | 41-0 | 41-1 | 41-1 | 41-1 | 41-2 | 41-2 |
| 325.00 | 48-1 | 48-1 | 48-2 | 48-3 | 48-4 | 48-4 | 48-5 | 48-5 | 48-6 | 48-6 |
| 350.00 | 56-0 | 56-1 | 56-2 | 56-2 | 56-3 | 56-4 | 56-5 | 56-5 | 56-6 | 56-6 |
| 375.00 | 64-7 | 64-8 | 64-9 | 64-10 | 64-11 | 65-0 | 65-1 | 65-1 | 65-2 | 65-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 | 10-1 |
| 175.00 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-10 |
| 200.00 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 | 18-0 | 18-0 | 18-1 | 18-1 |
| 225.00 | 22-9 | 22-9 | 22-9 | 22-10 | 22-10 | 22-10 | 22-10 | 22-11 | 22-11 | 22-11 |
| 250.00 | 28-2 | 28-2 | 28-2 | 28-3 | 28-3 | 28-4 | 28-4 | 28-4 | 28-4 | 28-5 |
| 275.00 | 34-2 | 34-2 | 34-3 | 34-3 | 34-4 | 34-4 | 34-5 | 34-5 | 34-5 | 34-6 |
| 300.00 | 40-10 | 40-10 | 40-11 | 40-11 | 41-0 | 41-1 | 41-1 | 41-1 | 41-2 | 41-2 |
| 325.00 | 48-1 | 48-2 | 48-2 | 48-3 | 48-4 | 48-4 | 48-5 | 48-5 | 48-6 | 48-6 |
| 350.00 | 56-0 | 56-1 | 56-2 | 56-3 | 56-3 | 56-4 | 56-5 | 56-5 | 56-6 | 56-6 |
| 375.00 | 64-7 | 64-8 | 64-9 | 64-10 | 64-11 | 65-0 | 65-1 | 65-1 | 65-2 | 65-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 |
| 225.00 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 | 24-0 | 24-0 | 24-0 | 24-0 |
| 250.00 | 29-7 | 29-7 | 29-7 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 | 29-9 | 29-9 |
| 275.00 | 35-11 | 35-11 | 36-0 | 36-0 | 36-0 | 36-0 | 36-1 | 36-1 | 36-1 | 36-1 |
| 300.00 | 42-11 | 43-0 | 43-0 | 43-0 | 43-1 | 43-1 | 43-1 | 43-1 | 43-2 | 43-2 |
| 325.00 | 50-7 | 50-8 | 50-8 | 50-9 | 50-9 | 50-9 | 50-10 | 50-10 | 50-10 | 50-10 |
| 350.00 | 59-0 | 59-0 | 59-1 | 59-1 | 59-2 | 59-2 | 59-2 | 59-3 | 59-3 | 59-3 |
| 375.00 | 68-1 | 68-1 | 68-2 | 68-2 | 68-3 | 68-3 | 68-4 | 68-4 | 68-5 | 68-5 |
| 400.00 | 77-10 | 77-11 | 78-0 | 78-0 | 78-1 | 78-1 | 78-2 | 78-2 | 78-3 | 78-3 |
| 425.00 | 88-5 | 88-6 | 88-7 | 88-7 | 88-8 | 88-9 | 88-9 | 88-10 | 88-10 | 88-11 |
| 450.00 | 99-9 | 99-10 | 99-11 | 99-11 | 100-0 | 100-1 | 100-2 | 100-2 | 100-3 | 100-3 |
| 475.00 | 111-11 | 111-11 | 112-0 | 112-1 | 112-2 | 112-3 | 112-4 | 112-4 | 112-5 | 112-6 |
| 500.00 | 124-10 | 124-11 | 125-0 | 125-1 | 125-2 | 125-3 | 125-4 | 125-5 | 125-5 | 125-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 |
| 225.00 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 | 23-11 | 24-0 | 24-0 | 24-0 | 24-0 |
| 250.00 | 29-7 | 29-7 | 29-7 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 | 29-9 | 29-9 |
| 275.00 | 35-11 | 35-11 | 36-0 | 36-0 | 36-0 | 36-1 | 36-1 | 36-1 | 36-1 | 36-1 |
| 300.00 | 42-11 | 43-0 | 43-0 | 43-0 | 43-1 | 43-1 | 43-1 | 43-1 | 43-2 | 43-2 |
| 325.00 | 50-7 | 50-8 | 50-8 | 50-9 | 50-9 | 50-9 | 50-10 | 50-10 | 50-10 | 50-10 |
| 350.00 | 59-0 | 59-0 | 59-1 | 59-1 | 59-2 | 59-2 | 59-2 | 59-3 | 59-3 | 59-3 |
| 375.00 | 68-1 | 68-1 | 68-2 | 68-2 | 68-3 | 68-3 | 68-4 | 68-4 | 68-5 | 68-5 |
| 400.00 | 77-11 | 77-11 | 78-0 | 78-0 | 78-1 | 78-2 | 78-2 | 78-2 | 78-3 | 78-3 |
| 425.00 | 88-5 | 88-6 | 88-7 | 88-7 | 88-8 | 88-9 | 88-9 | 88-10 | 88-10 | 88-11 |
| 450.00 | 99-9 | 99-10 | 99-11 | 100-0 | 100-0 | 100-1 | 100-2 | 100-2 | 100-3 | 100-3 |
| 475.00 | 111-11 | 112-0 | 112-1 | 112-1 | 112-2 | 112-3 | 112-4 | 112-4 | 112-5 | 112-6 |
| 500.00 | 124-10 | 124-11 | 125-0 | 125-1 | 125-2 | 125-3 | 125-4 | 125-5 | 125-5 | 125-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 | 32-7 |
| 275.00 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 | 39-7 | 39-7 | 39-7 | 39-7 | 39-7 |
| 300.00 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 | 47-4 | 47-4 | 47-4 | 47-4 | 47-4 |
| 325.00 | 55-9 | 55-9 | 55-9 | 55-9 | 55-9 | 55-10 | 55-10 | 55-10 | 55-10 | 55-10 |
| 350.00 | 65-0 | 65-0 | 65-0 | 65-1 | 65-1 | 65-1 | 65-1 | 65-2 | 65-2 | 65-2 |
| 375.00 | 75-1 | 75-1 | 75-1 | 75-2 | 75-2 | 75-2 | 75-3 | 75-3 | 75-3 | 75-3 |
| 400.00 | 86-0 | 86-0 | 86-0 | 86-1 | 86-1 | 86-1 | 86-2 | 86-2 | 86-2 | 86-2 |
| 425.00 | 97-9 | 97-9 | 97-10 | 97-10 | 97-11 | 97-11 | 97-11 | 98-0 | 98-0 | 98-0 |
| 450.00 | 110-5 | 110-5 | 110-6 | 110-6 | 110-7 | 110-7 | 110-8 | 110-8 | 110-8 | 110-8 |
| 475.00 | 124-0 | 124-0 | 124-1 | 124-1 | 124-2 | 124-2 | 124-3 | 124-3 | 124-3 | 124-4 |
| 500.00 | 138-6 | 138-7 | 138-7 | 138-8 | 138-9 | 138-9 | 138-10 | 138-10 | 138-10 | 138-11 |
| 525.00 | 154-1 | 154-1 | 154-2 | 154-3 | 154-3 | 154-4 | 154-4 | 154-5 | 154-5 | 154-6 |
| 550.00 | 170-7 | 170-8 | 170-9 | 170-10 | 170-10 | 170-11 | 171-0 | 171-0 | 171-1 | 171-1 |
| 575.00 | 188-3 | 188-4 | 188-5 | 188-6 | 188-6 | 188-7 | 188-8 | 188-8 | 188-9 | 188-10 |
| 600.00 | 207-0 | 207-1 | 207-2 | 207-3 | 207-4 | 207-5 | 207-6 | 207-6 | 207-7 | 207-7 |
| 625.00 | 226-11 | 227-0 | 227-2 | 227-3 | 227-4 | 227-5 | 227-6 | 227-6 | 227-7 | 227-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 | 32-7 |
| 275.00 | 39-6 | 39-6 | 39-6 | 39-6 | 39-6 | 39-7 | 39-7 | 39-7 | 39-7 | 39-7 |
| 300.00 | 47-3 | 47-3 | 47-3 | 47-3 | 47-3 | 47-4 | 47-4 | 47-4 | 47-4 | 47-4 |
| 325.00 | 55-9 | 55-9 | 55-9 | 55-9 | 55-9 | 55-10 | 55-10 | 55-10 | 55-10 | 55-10 |
| 350.00 | 65-0 | 65-0 | 65-0 | 65-1 | 65-1 | 65-1 | 65-1 | 65-2 | 65-2 | 65-2 |
| 375.00 | 75-1 | 75-1 | 75-1 | 75-2 | 75-2 | 75-2 | 75-3 | 75-3 | 75-3 | 75-3 |
| 400.00 | 86-0 | 86-0 | 86-0 | 86-1 | 86-1 | 86-1 | 86-2 | 86-2 | 86-2 | 86-2 |
| 425.00 | 97-9 | 97-9 | 97-10 | 97-10 | 97-11 | 97-11 | 97-11 | 98-0 | 98-0 | 98-0 |
| 450.00 | 110-5 | 110-5 | 110-6 | 110-6 | 110-7 | 110-7 | 110-8 | 110-8 | 110-8 | 110-8 |
| 475.00 | 124-0 | 124-0 | 124-1 | 124-1 | 124-2 | 124-2 | 124-3 | 124-3 | 124-3 | 124-4 |
| 500.00 | 138-6 | 138-7 | 138-7 | 138-8 | 138-9 | 138-9 | 138-10 | 138-10 | 138-10 | 138-11 |
| 525.00 | 154-1 | 154-1 | 154-2 | 154-3 | 154-3 | 154-4 | 154-4 | 154-5 | 154-5 | 154-6 |
| 550.00 | 170-7 | 170-8 | 170-9 | 170-10 | 170-10 | 170-11 | 171-0 | 171-0 | 171-1 | 171-1 |
| 575.00 | 188-3 | 188-4 | 188-5 | 188-6 | 188-7 | 188-7 | 188-8 | 188-8 | 188-9 | 188-10 |
| 600.00 | 207-0 | 207-1 | 207-2 | 207-3 | 207-4 | 207-5 | 207-6 | 207-6 | 207-7 | 207-7 |
| 625.00 | 227-0 | 227-1 | 227-2 | 227-3 | 227-4 | 227-5 | 227-6 | 227-6 | 227-7 | 227-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 2.82 | 1500 | 2.82 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 2.57 | 553 | 2.55 | 557 |
| 30 | 0 | 0 | 0 | 1.134 | 2.82 | 504 | 2.8 | 508 |
| 40 | 0 | 0 | 0 | 1.134 | 2.9 | 491 | 2.88 | 494 |
| 50 | 0 | 0 | 0 | 1.134 | 2.97 | 479 | 2.95 | 482 |
| 60 | 0 | 0 | 0 | 1.134 | 3.04 | 467 | 3.02 | 470 |
| 70 | 0 | 0 | 0 | 1.134 | 3.11 | 457 | 3.09 | 460 |
| 80 | 0 | 0 | 0 | 1.134 | 3.18 | 447 | 3.16 | 450 |
| 90 | 0 | 0 | 0 | 1.134 | 3.23 | 440 | 3.23 | 440 |
| 100 | 0 | 0 | 0 | 1.134 | 3.27 | 435 | 3.27 | 435 |
| 110 | 0 | 0 | 0 | 1.134 | 3.31 | 430 | 3.31 | 430 |
| 120 | 0 | 0 | 0 | 1.134 | 3.35 | 425 | 3.35 | 425 |
| 130 | 0 | 0 | 0 | 1.134 | 3.39 | 420 | 3.39 | 420 |
| 167 | 0 | 0 | 0 | 1.134 | 3.53 | 404 | 3.53 | 404 |
| 212 | 0 | 0 | 0 | 1.134 | 3.69 | 386 | 3.69 | 386 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 11.41 | 1500 | 11.41 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 11.16 | 515 | 11.14 | 515 |
| 30 | 0 | 0 | 0 | 1.134 | 11.4 | 504 | 11.38 | 505 |
| 40 | 0 | 0 | 0 | 1.134 | 11.48 | 500 | 11.46 | 501 |
| 50 | 0 | 0 | 0 | 1.134 | 11.56 | 497 | 11.54 | 498 |
| 60 | 0 | 0 | 0 | 1.134 | 11.63 | 494 | 11.61 | 495 |
| 70 | 0 | 0 | 0 | 1.134 | 11.71 | 491 | 11.69 | 492 |
| 80 | 0 | 0 | 0 | 1.134 | 11.79 | 488 | 11.76 | 489 |
| 90 | 0 | 0 | 0 | 1.134 | 11.84 | 485 | 11.84 | 486 |
| 100 | 0 | 0 | 0 | 1.134 | 11.9 | 483 | 11.9 | 483 |
| 110 | 0 | 0 | 0 | 1.134 | 11.95 | 481 | 11.95 | 481 |
| 120 | 0 | 0 | 0 | 1.134 | 11.99 | 480 | 11.99 | 480 |
| 130 | 0 | 0 | 0 | 1.134 | 12.04 | 478 | 12.04 | 478 |
| 167 | 0 | 0 | 0 | 1.134 | 12.2 | 472 | 12.2 | 472 |
| 212 | 0 | 0 | 0 | 1.134 | 12.4 | 464 | 12.4 | 464 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 26.1 | 1500 | 26.1 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 25.85 | 508 | 25.83 | 509 |
| 30 | 0 | 0 | 0 | 1.134 | 26.1 | 504 | 26.08 | 504 |
| 40 | 0 | 0 | 0 | 1.134 | 26.17 | 502 | 26.16 | 503 |
| 50 | 0 | 0 | 0 | 1.134 | 26.25 | 501 | 26.23 | 501 |
| 60 | 0 | 0 | 0 | 1.134 | 26.33 | 499 | 26.31 | 500 |
| 70 | 0 | 0 | 0 | 1.134 | 26.41 | 498 | 26.39 | 498 |
| 80 | 0 | 0 | 0 | 1.134 | 26.48 | 497 | 26.46 | 497 |
| 90 | 0 | 0 | 0 | 1.134 | 26.55 | 496 | 26.54 | 496 |
| 100 | 0 | 0 | 0 | 1.134 | 26.61 | 495 | 26.61 | 495 |
| 110 | 0 | 0 | 0 | 1.134 | 26.66 | 494 | 26.66 | 494 |
| 120 | 0 | 0 | 0 | 1.134 | 26.7 | 493 | 26.7 | 493 |
| 130 | 0 | 0 | 0 | 1.134 | 26.75 | 492 | 26.75 | 492 |
| 167 | 0 | 0 | 0 | 1.134 | 26.92 | 489 | 26.92 | 489 |
| 212 | 0 | 0 | 0 | 1.134 | 27.13 | 486 | 27.13 | 486 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 47.6 | 1500 | 47.6 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 47.35 | 506 | 47.33 | 506 |
| 30 | 0 | 0 | 0 | 1.134 | 47.59 | 504 | 47.57 | 504 |
| 40 | 0 | 0 | 0 | 1.134 | 47.67 | 503 | 47.65 | 503 |
| 50 | 0 | 0 | 0 | 1.134 | 47.75 | 502 | 47.73 | 502 |
| 60 | 0 | 0 | 0 | 1.134 | 47.83 | 501 | 47.81 | 502 |
| 70 | 0 | 0 | 0 | 1.134 | 47.9 | 501 | 47.88 | 501 |
| 80 | 0 | 0 | 0 | 1.134 | 47.98 | 500 | 47.96 | 500 |
| 90 | 0 | 0 | 0 | 1.134 | 48.05 | 499 | 48.04 | 500 |
| 100 | 0 | 0 | 0 | 1.134 | 48.11 | 499 | 48.11 | 499 |
| 110 | 0 | 0 | 0 | 1.134 | 48.15 | 498 | 48.15 | 498 |
| 120 | 0 | 0 | 0 | 1.134 | 48.2 | 498 | 48.2 | 498 |
| 130 | 0 | 0 | 0 | 1.134 | 48.25 | 498 | 48.25 | 498 |
| 167 | 0 | 0 | 0 | 1.134 | 48.42 | 496 | 48.42 | 496 |
| 212 | 0 | 0 | 0 | 1.134 | 48.63 | 494 | 48.63 | 494 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 77.11 | 1500 | 77.11 | 1500* |
| 0 | 0 | 0 | 0 | 1.134 | 76.86 | 505 | 76.84 | 505 |
| 30 | 0 | 0 | 0 | 1.134 | 77.11 | 504 | 77.09 | 504 |
| 40 | 0 | 0 | 0 | 1.134 | 77.18 | 503 | 77.16 | 503 |
| 50 | 0 | 0 | 0 | 1.134 | 77.26 | 503 | 77.24 | 503 |
| 60 | 0 | 0 | 0 | 1.134 | 77.34 | 502 | 77.32 | 503 |
| 70 | 0 | 0 | 0 | 1.134 | 77.41 | 502 | 77.39 | 502 |
| 80 | 0 | 0 | 0 | 1.134 | 77.49 | 502 | 77.47 | 502 |
| 90 | 0 | 0 | 0 | 1.134 | 77.56 | 501 | 77.55 | 501 |
| 100 | 0 | 0 | 0 | 1.134 | 77.62 | 501 | 77.62 | 501 |
| 110 | 0 | 0 | 0 | 1.134 | 77.67 | 501 | 77.67 | 501 |
| 120 | 0 | 0 | 0 | 1.134 | 77.71 | 500 | 77.71 | 500 |
| 130 | 0 | 0 | 0 | 1.134 | 77.76 | 500 | 77.76 | 500 |
| 167 | 0 | 0 | 0 | 1.134 | 77.93 | 499 | 77.93 | 499 |
| 212 | 0 | 0 | 0 | 1.134 | 78.15 | 498 | 78.15 | 498 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 100.00 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 125.00 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-1 | 5-1 | 5-2 |
| 150.00 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 |
| 175.00 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 | 9-6 | 9-9 | 9-11 | 10-1 | 10-2 |
| 200.00 | 10-11 | 11-3 | 11-7 | 11-10 | 12-2 | 12-5 | 12-8 | 13-0 | 13-2 | 13-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 100.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 125.00 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-1 | 5-2 |
| 150.00 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 |
| 175.00 | 8-5 | 8-8 | 8-11 | 9-1 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-2 |
| 200.00 | 11-0 | 11-4 | 11-7 | 11-11 | 12-3 | 12-6 | 12-9 | 13-0 | 13-2 | 13-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 2-10 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 |
| 125.00 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 |
| 150.00 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 175.00 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 |
| 200.00 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 11-11 |
| 225.00 | 14-4 | 14-5 | 14-6 | 14-7 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 |
| 250.00 | 17-8 | 17-10 | 17-11 | 18-1 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 | 18-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 |
| 125.00 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 |
| 150.00 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 |
| 175.00 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 |
| 200.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 | 11-11 |
| 225.00 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 |
| 250.00 | 17-9 | 17-10 | 18-0 | 18-1 | 18-3 | 18-4 | 18-6 | 18-7 | 18-8 | 18-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.335

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-5 | 6-6 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-7 |
| 175.00 | 8-9 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 |
| 200.00 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 |
| 225.00 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 |
| 250.00 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-5 |
| 275.00 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 | 22-4 | 22-4 |
| 300.00 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-6 | 26-7 | 26-8 |
| 325.00 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 |
| 350.00 | 35-6 | 35-7 | 35-9 | 35-10 | 35-11 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 |
| 375.00 | 40-10 | 41-0 | 41-1 | 41-3 | 41-4 | 41-6 | 41-7 | 41-8 | 41-10 | 41-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-5 | 6-6 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-7 |
| 175.00 | 8-10 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 |
| 200.00 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 |
| 225.00 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 |
| 250.00 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-5 | 18-5 |
| 275.00 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-4 |
| 300.00 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-7 | 26-8 |
| 325.00 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-1 | 31-2 | 31-3 | 31-3 | 31-4 |
| 350.00 | 35-6 | 35-8 | 35-9 | 35-10 | 36-0 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 |
| 375.00 | 40-11 | 41-0 | 41-2 | 41-3 | 41-4 | 41-6 | 41-7 | 41-9 | 41-10 | 41-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-9 | 11-9 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-10 | 11-10 |
| 225.00 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 | 15-0 | 15-0 | 15-0 | 15-0 | 15-1 |
| 250.00 | 18-4 | 18-5 | 18-5 | 18-5 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 |
| 275.00 | 22-3 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 |
| 300.00 | 26-6 | 26-7 | 26-7 | 26-8 | 26-8 | 26-9 | 26-9 | 26-10 | 26-10 | 26-10 |
| 325.00 | 31-2 | 31-3 | 31-3 | 31-4 | 31-4 | 31-5 | 31-6 | 31-6 | 31-7 | 31-7 |
| 350.00 | 36-3 | 36-3 | 36-4 | 36-5 | 36-5 | 36-6 | 36-7 | 36-7 | 36-8 | 36-8 |
| 375.00 | 41-8 | 41-9 | 41-9 | 41-10 | 41-11 | 42-0 | 42-1 | 42-1 | 42-2 | 42-3 |
| 400.00 | 47-6 | 47-7 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 | 48-0 | 48-1 | 48-2 |
| 425.00 | 53-9 | 53-10 | 53-11 | 54-0 | 54-1 | 54-2 | 54-3 | 54-4 | 54-5 | 54-6 |
| 450.00 | 60-5 | 60-6 | 60-7 | 60-8 | 60-10 | 60-11 | 61-0 | 61-1 | 61-2 | 61-3 |
| 475.00 | 67-6 | 67-7 | 67-8 | 67-10 | 67-11 | 68-0 | 68-2 | 68-3 | 68-4 | 68-5 |
| 500.00 | 75-0 | 75-1 | 75-3 | 75-4 | 75-6 | 75-7 | 75-9 | 75-10 | 75-11 | 76-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-9 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-10 | 11-10 | 11-10 |
| 225.00 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 | 15-0 | 15-0 | 15-0 | 15-0 | 15-1 |
| 250.00 | 18-4 | 18-5 | 18-5 | 18-5 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 |
| 275.00 | 22-3 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 |
| 300.00 | 26-6 | 26-7 | 26-7 | 26-8 | 26-8 | 26-9 | 26-9 | 26-10 | 26-10 | 26-10 |
| 325.00 | 31-2 | 31-3 | 31-3 | 31-4 | 31-5 | 31-5 | 31-6 | 31-6 | 31-7 | 31-7 |
| 350.00 | 36-3 | 36-3 | 36-4 | 36-5 | 36-6 | 36-6 | 36-7 | 36-8 | 36-8 | 36-8 |
| 375.00 | 41-8 | 41-9 | 41-10 | 41-10 | 41-11 | 42-0 | 42-1 | 42-2 | 42-2 | 42-3 |
| 400.00 | 47-6 | 47-7 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 | 48-1 | 48-1 | 48-2 |
| 425.00 | 53-9 | 53-10 | 53-11 | 54-0 | 54-1 | 54-2 | 54-4 | 54-4 | 54-5 | 54-6 |
| 450.00 | 60-5 | 60-6 | 60-8 | 60-9 | 60-10 | 60-11 | 61-0 | 61-1 | 61-2 | 61-3 |
| 475.00 | 67-6 | 67-7 | 67-9 | 67-10 | 67-11 | 68-1 | 68-2 | 68-3 | 68-4 | 68-5 |
| 500.00 | 75-0 | 75-2 | 75-3 | 75-5 | 75-6 | 75-8 | 75-9 | 75-10 | 75-11 | 76-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 | 18-11 | 19-0 | 19-0 |
| 275.00 | 22-10 | 22-10 | 22-10 | 22-11 | 22-11 | 22-11 | 22-11 | 23-0 | 23-0 | 23-0 |
| 300.00 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 | 27-5 | 27-5 | 27-5 |
| 325.00 | 32-0 | 32-0 | 32-1 | 32-1 | 32-1 | 32-2 | 32-2 | 32-2 | 32-3 | 32-3 |
| 350.00 | 37-2 | 37-2 | 37-3 | 37-3 | 37-4 | 37-4 | 37-5 | 37-5 | 37-5 | 37-6 |
| 375.00 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 43-0 | 43-0 | 43-1 | 43-1 | 43-1 |
| 400.00 | 48-9 | 48-10 | 48-10 | 48-11 | 48-11 | 49-0 | 49-1 | 49-1 | 49-2 | 49-2 |
| 425.00 | 55-2 | 55-3 | 55-4 | 55-4 | 55-5 | 55-5 | 55-6 | 55-7 | 55-7 | 55-8 |
| 450.00 | 62-0 | 62-1 | 62-2 | 62-3 | 62-3 | 62-4 | 62-5 | 62-5 | 62-6 | 62-7 |
| 475.00 | 69-4 | 69-4 | 69-5 | 69-6 | 69-7 | 69-8 | 69-9 | 69-9 | 69-10 | 69-11 |
| 500.00 | 77-0 | 77-1 | 77-2 | 77-3 | 77-4 | 77-5 | 77-6 | 77-7 | 77-7 | 77-8 |
| 525.00 | 85-2 | 85-3 | 85-4 | 85-5 | 85-6 | 85-7 | 85-8 | 85-9 | 85-10 | 85-11 |
| 550.00 | 93-9 | 93-10 | 93-11 | 94-1 | 94-2 | 94-3 | 94-4 | 94-5 | 94-6 | 94-7 |
| 575.00 | 102-10 | 102-11 | 103-0 | 103-2 | 103-3 | 103-4 | 103-5 | 103-7 | 103-8 | 103-9 |
| 600.00 | 112-4 | 112-6 | 112-7 | 112-8 | 112-10 | 112-11 | 113-0 | 113-2 | 113-3 | 113-4 |
| 625.00 | 122-4 | 122-6 | 122-7 | 122-9 | 122-10 | 123-0 | 123-1 | 123-3 | 123-4 | 123-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 | 18-11 | 19-0 | 19-0 |
| 275.00 | 22-10 | 22-10 | 22-10 | 22-11 | 22-11 | 22-11 | 22-11 | 23-0 | 23-0 | 23-0 |
| 300.00 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 | 27-5 | 27-5 | 27-5 |
| 325.00 | 32-0 | 32-0 | 32-1 | 32-1 | 32-1 | 32-2 | 32-2 | 32-2 | 32-3 | 32-3 |
| 350.00 | 37-2 | 37-3 | 37-3 | 37-3 | 37-4 | 37-4 | 37-5 | 37-5 | 37-5 | 37-6 |
| 375.00 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 43-0 | 43-0 | 43-1 | 43-1 | 43-1 |
| 400.00 | 48-9 | 48-10 | 48-10 | 48-11 | 49-0 | 49-0 | 49-1 | 49-1 | 49-2 | 49-2 |
| 425.00 | 55-2 | 55-3 | 55-4 | 55-4 | 55-5 | 55-6 | 55-6 | 55-7 | 55-7 | 55-8 |
| 450.00 | 62-1 | 62-1 | 62-2 | 62-3 | 62-3 | 62-4 | 62-5 | 62-6 | 62-6 | 62-7 |
| 475.00 | 69-4 | 69-5 | 69-5 | 69-6 | 69-7 | 69-8 | 69-9 | 69-9 | 69-10 | 69-11 |
| 500.00 | 77-0 | 77-1 | 77-2 | 77-3 | 77-4 | 77-5 | 77-6 | 77-7 | 77-7 | 77-8 |
| 525.00 | 85-2 | 85-3 | 85-4 | 85-5 | 85-6 | 85-7 | 85-8 | 85-9 | 85-10 | 85-11 |
| 550.00 | 93-9 | 93-11 | 94-0 | 94-1 | 94-2 | 94-3 | 94-4 | 94-5 | 94-6 | 94-7 |
| 575.00 | 102-10 | 102-11 | 103-1 | 103-2 | 103-3 | 103-4 | 103-6 | 103-7 | 103-8 | 103-9 |
| 600.00 | 112-4 | 112-6 | 112-7 | 112-9 | 112-10 | 112-11 | 113-1 | 113-2 | 113-3 | 113-4 |
| 625.00 | 122-5 | 122-6 | 122-8 | 122-9 | 122-11 | 123-0 | 123-2 | 123-3 | 123-4 | 123-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 2.11 | 2000 | 2.11 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 1.74 | 816 | 1.71 | 832 |
| 30 | 0 | 0 | 0 | 1.134 | 2.07 | 684 | 2.04 | 696 |
| 40 | 0 | 0 | 0 | 1.134 | 2.18 | 653 | 2.14 | 663 |
| 50 | 0 | 0 | 0 | 1.134 | 2.27 | 625 | 2.24 | 635 |
| 60 | 0 | 0 | 0 | 1.134 | 2.36 | 601 | 2.33 | 610 |
| 70 | 0 | 0 | 0 | 1.134 | 2.45 | 579 | 2.42 | 587 |
| 80 | 0 | 0 | 0 | 1.134 | 2.54 | 559 | 2.51 | 567 |
| 90 | 0 | 0 | 0 | 1.134 | 2.62 | 542 | 2.59 | 549 |
| 100 | 0 | 0 | 0 | 1.134 | 2.67 | 532 | 2.67 | 532 |
| 110 | 0 | 0 | 0 | 1.134 | 2.73 | 522 | 2.73 | 522 |
| 120 | 0 | 0 | 0 | 1.134 | 2.77 | 513 | 2.77 | 513 |
| 130 | 0 | 0 | 0 | 1.134 | 2.81 | 505 | 2.81 | 505 |
| 167 | 0 | 0 | 0 | 1.134 | 2.98 | 478 | 2.98 | 478 |
| 212 | 0 | 0 | 0 | 1.134 | 3.16 | 450 | 3.16 | 450 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 8.51 | 2000 | 8.51 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 8.14 | 701 | 8.1 | 704 |
| 30 | 0 | 0 | 0 | 1.134 | 8.46 | 675 | 8.43 | 677 |
| 40 | 0 | 0 | 0 | 1.134 | 8.57 | 667 | 8.53 | 669 |
| 50 | 0 | 0 | 0 | 1.134 | 8.67 | 659 | 8.63 | 662 |
| 60 | 0 | 0 | 0 | 1.134 | 8.77 | 651 | 8.73 | 654 |
| 70 | 0 | 0 | 0 | 1.134 | 8.87 | 644 | 8.83 | 647 |
| 80 | 0 | 0 | 0 | 1.134 | 8.97 | 637 | 8.93 | 640 |
| 90 | 0 | 0 | 0 | 1.134 | 9.07 | 630 | 9.03 | 633 |
| 100 | 0 | 0 | 0 | 1.134 | 9.16 | 624 | 9.13 | 626 |
| 110 | 0 | 0 | 0 | 1.134 | 9.22 | 620 | 9.22 | 620 |
| 120 | 0 | 0 | 0 | 1.134 | 9.29 | 615 | 9.29 | 615 |
| 130 | 0 | 0 | 0 | 1.134 | 9.35 | 612 | 9.35 | 612 |
| 167 | 0 | 0 | 0 | 1.134 | 9.55 | 599 | 9.55 | 599 |
| 212 | 0 | 0 | 0 | 1.134 | 9.8 | 584 | 9.8 | 584 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 19.31 | 2000 | 19.31 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 18.95 | 684 | 18.92 | 685 |
| 30 | 0 | 0 | 0 | 1.134 | 19.27 | 673 | 19.24 | 674 |
| 40 | 0 | 0 | 0 | 1.134 | 19.38 | 669 | 19.34 | 671 |
| 50 | 0 | 0 | 0 | 1.134 | 19.48 | 666 | 19.44 | 667 |
| 60 | 0 | 0 | 0 | 1.134 | 19.58 | 663 | 19.55 | 664 |
| 70 | 0 | 0 | 0 | 1.134 | 19.69 | 659 | 19.65 | 660 |
| 80 | 0 | 0 | 0 | 1.134 | 19.79 | 656 | 19.75 | 657 |
| 90 | 0 | 0 | 0 | 1.134 | 19.89 | 653 | 19.85 | 654 |
| 100 | 0 | 0 | 0 | 1.134 | 19.99 | 650 | 19.95 | 651 |
| 110 | 0 | 0 | 0 | 1.134 | 20.06 | 647 | 20.05 | 648 |
| 120 | 0 | 0 | 0 | 1.134 | 20.14 | 645 | 20.14 | 645 |
| 130 | 0 | 0 | 0 | 1.134 | 20.2 | 643 | 20.2 | 643 |
| 167 | 0 | 0 | 0 | 1.134 | 20.42 | 636 | 20.42 | 636 |
| 212 | 0 | 0 | 0 | 1.134 | 20.68 | 628 | 20.68 | 628 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 34.8 | 2000 | 34.8 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 34.44 | 678 | 34.4 | 679 |
| 30 | 0 | 0 | 0 | 1.134 | 34.76 | 672 | 34.72 | 673 |
| 40 | 0 | 0 | 0 | 1.134 | 34.86 | 670 | 34.83 | 671 |
| 50 | 0 | 0 | 0 | 1.134 | 34.97 | 668 | 34.93 | 669 |
| 60 | 0 | 0 | 0 | 1.134 | 35.07 | 667 | 35.03 | 667 |
| 70 | 0 | 0 | 0 | 1.134 | 35.17 | 665 | 35.14 | 665 |
| 80 | 0 | 0 | 0 | 1.134 | 35.28 | 663 | 35.24 | 664 |
| 90 | 0 | 0 | 0 | 1.134 | 35.38 | 661 | 35.34 | 662 |
| 100 | 0 | 0 | 0 | 1.134 | 35.48 | 659 | 35.44 | 660 |
| 110 | 0 | 0 | 0 | 1.134 | 35.56 | 658 | 35.54 | 658 |
| 120 | 0 | 0 | 0 | 1.134 | 35.64 | 657 | 35.64 | 657 |
| 130 | 0 | 0 | 0 | 1.134 | 35.7 | 656 | 35.7 | 656 |
| 167 | 0 | 0 | 0 | 1.134 | 35.93 | 652 | 35.93 | 652 |
| 212 | 0 | 0 | 0 | 1.134 | 36.2 | 647 | 36.2 | 647 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 55.37 | 2000 | 55.37 | 2000* |
| 0 | 0 | 0 | 0 | 1.134 | 55.01 | 675 | 54.98 | 676 |
| 30 | 0 | 0 | 0 | 1.134 | 55.33 | 672 | 55.3 | 672 |
| 40 | 0 | 0 | 0 | 1.134 | 55.44 | 671 | 55.4 | 671 |
| 50 | 0 | 0 | 0 | 1.134 | 55.54 | 670 | 55.5 | 670 |
| 60 | 0 | 0 | 0 | 1.134 | 55.64 | 669 | 55.61 | 669 |
| 70 | 0 | 0 | 0 | 1.134 | 55.75 | 667 | 55.71 | 668 |
| 80 | 0 | 0 | 0 | 1.134 | 55.85 | 666 | 55.81 | 667 |
| 90 | 0 | 0 | 0 | 1.134 | 55.95 | 665 | 55.91 | 666 |
| 100 | 0 | 0 | 0 | 1.134 | 56.06 | 664 | 56.02 | 665 |
| 110 | 0 | 0 | 0 | 1.134 | 56.14 | 663 | 56.12 | 663 |
| 120 | 0 | 0 | 0 | 1.134 | 56.22 | 662 | 56.22 | 662 |
| 130 | 0 | 0 | 0 | 1.134 | 56.28 | 662 | 56.28 | 662 |
| 167 | 0 | 0 | 0 | 1.134 | 56.51 | 659 | 56.51 | 659 |
| 212 | 0 | 0 | 0 | 1.134 | 56.79 | 656 | 56.79 | 656 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 100.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 125.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-3 |
| 150.00 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 | 6-0 | 6-2 |
| 175.00 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 |
| 200.00 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-8 | 10-1 | 10-5 | 10-9 | 10-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 |
| 100.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 125.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 |
| 150.00 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-0 | 6-2 |
| 175.00 | 6-0 | 6-4 | 6-8 | 7-0 | 7-3 | 7-6 | 7-10 | 8-1 | 8-2 | 8-4 |
| 200.00 | 7-11 | 8-4 | 8-9 | 9-1 | 9-6 | 9-10 | 10-2 | 10-6 | 10-9 | 10-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 |
| 125.00 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 |
| 150.00 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 |
| 175.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 200.00 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-2 | 9-3 |
| 225.00 | 10-7 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 |
| 250.00 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-3 | 14-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 |
| 125.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 |
| 150.00 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 |
| 175.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 200.00 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 |
| 225.00 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 |
| 250.00 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 | 14-4 | 14-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 |
| 175.00 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 |
| 200.00 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 |
| 225.00 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-2 | 11-2 | 11-3 |
| 250.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 |
| 275.00 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 |
| 300.00 | 19-2 | 19-3 | 19-4 | 19-5 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-1 |
| 325.00 | 22-6 | 22-7 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-4 | 23-5 | 23-7 |
| 350.00 | 26-1 | 26-3 | 26-5 | 26-6 | 26-8 | 26-10 | 26-11 | 27-1 | 27-3 | 27-4 |
| 375.00 | 30-0 | 30-2 | 30-4 | 30-6 | 30-8 | 30-10 | 30-11 | 31-1 | 31-3 | 31-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 |
| 175.00 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 |
| 200.00 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 |
| 225.00 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-3 |
| 250.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-11 |
| 275.00 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 |
| 300.00 | 19-2 | 19-3 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-11 | 20-0 | 20-1 |
| 325.00 | 22-6 | 22-8 | 22-9 | 22-11 | 23-0 | 23-2 | 23-3 | 23-4 | 23-6 | 23-7 |
| 350.00 | 26-2 | 26-3 | 26-5 | 26-7 | 26-9 | 26-10 | 27-0 | 27-2 | 27-3 | 27-4 |
| 375.00 | 30-1 | 30-2 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 | 31-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 |
| 225.00 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 |
| 250.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 |
| 275.00 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-9 |
| 300.00 | 19-5 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 | 19-11 |
| 325.00 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 |
| 350.00 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 |
| 375.00 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-2 |
| 400.00 | 34-7 | 34-9 | 34-10 | 34-11 | 35-0 | 35-2 | 35-3 | 35-4 | 35-5 | 35-7 |
| 425.00 | 39-2 | 39-3 | 39-4 | 39-6 | 39-7 | 39-9 | 39-10 | 39-11 | 40-1 | 40-2 |
| 450.00 | 43-11 | 44-1 | 44-2 | 44-4 | 44-5 | 44-7 | 44-9 | 44-10 | 45-0 | 45-1 |
| 475.00 | 49-0 | 49-2 | 49-4 | 49-6 | 49-7 | 49-9 | 49-11 | 50-1 | 50-2 | 50-4 |
| 500.00 | 54-5 | 54-7 | 54-9 | 54-11 | 55-1 | 55-3 | 55-4 | 55-6 | 55-8 | 55-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-7 | 8-8 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 |
| 225.00 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 |
| 250.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 |
| 275.00 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 |
| 300.00 | 19-5 | 19-6 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 |
| 325.00 | 22-10 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-2 | 23-3 | 23-4 | 23-5 |
| 350.00 | 26-6 | 26-7 | 26-8 | 26-9 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 |
| 375.00 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 |
| 400.00 | 34-8 | 34-9 | 34-10 | 35-0 | 35-1 | 35-2 | 35-3 | 35-5 | 35-6 | 35-7 |
| 425.00 | 39-2 | 39-3 | 39-5 | 39-6 | 39-8 | 39-9 | 39-11 | 40-0 | 40-1 | 40-2 |
| 450.00 | 44-0 | 44-1 | 44-3 | 44-4 | 44-6 | 44-8 | 44-9 | 44-11 | 45-0 | 45-2 |
| 475.00 | 49-1 | 49-3 | 49-4 | 49-6 | 49-8 | 49-10 | 49-11 | 50-1 | 50-3 | 50-4 |
| 500.00 | 54-5 | 54-7 | 54-9 | 54-11 | 55-1 | 55-3 | 55-5 | 55-7 | 55-9 | 55-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 |
| 275.00 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 |
| 300.00 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 19-11 | 20-0 |
| 325.00 | 23-1 | 23-2 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 |
| 350.00 | 26-10 | 26-11 | 26-11 | 27-0 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 | 27-3 |
| 375.00 | 30-10 | 30-11 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 | 31-3 | 31-3 | 31-4 |
| 400.00 | 35-2 | 35-2 | 35-3 | 35-4 | 35-5 | 35-5 | 35-6 | 35-7 | 35-8 | 35-8 |
| 425.00 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-3 | 40-4 |
| 450.00 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 |
| 475.00 | 49-9 | 49-10 | 49-11 | 50-0 | 50-1 | 50-2 | 50-4 | 50-5 | 50-6 | 50-7 |
| 500.00 | 55-2 | 55-4 | 55-5 | 55-6 | 55-7 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 |
| 525.00 | 60-11 | 61-1 | 61-2 | 61-4 | 61-5 | 61-6 | 61-8 | 61-9 | 61-10 | 62-0 |
| 550.00 | 67-0 | 67-2 | 67-3 | 67-5 | 67-6 | 67-8 | 67-9 | 67-11 | 68-0 | 68-2 |
| 575.00 | 73-4 | 73-6 | 73-8 | 73-9 | 73-11 | 74-1 | 74-2 | 74-4 | 74-6 | 74-7 |
| 600.00 | 80-0 | 80-2 | 80-4 | 80-6 | 80-8 | 80-9 | 80-11 | 81-1 | 81-3 | 81-5 |
| 625.00 | 87-0 | 87-2 | 87-4 | 87-6 | 87-8 | 87-10 | 88-0 | 88-2 | 88-4 | 88-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 |
| 275.00 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 |
| 300.00 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 |
| 325.00 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 | 23-6 |
| 350.00 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 |
| 375.00 | 30-10 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-2 | 31-3 | 31-4 | 31-4 |
| 400.00 | 35-2 | 35-3 | 35-3 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 | 35-9 |
| 425.00 | 39-9 | 39-10 | 39-11 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 |
| 450.00 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 |
| 475.00 | 49-9 | 49-10 | 49-11 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 |
| 500.00 | 55-3 | 55-4 | 55-5 | 55-6 | 55-8 | 55-9 | 55-10 | 55-11 | 56-1 | 56-2 |
| 525.00 | 61-0 | 61-1 | 61-3 | 61-4 | 61-5 | 61-7 | 61-8 | 61-9 | 61-11 | 62-0 |
| 550.00 | 67-1 | 67-2 | 67-4 | 67-5 | 67-7 | 67-8 | 67-10 | 67-11 | 68-1 | 68-2 |
| 575.00 | 73-5 | 73-7 | 73-8 | 73-10 | 74-0 | 74-1 | 74-3 | 74-5 | 74-6 | 74-8 |
| 600.00 | 80-1 | 80-3 | 80-5 | 80-6 | 80-8 | 80-10 | 81-0 | 81-2 | 81-4 | 81-5 |
| 625.00 | 87-1 | 87-3 | 87-5 | 87-7 | 87-9 | 87-11 | 88-1 | 88-3 | 88-5 | 88-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 1.69 | 2500 | 1.69 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 1.17 | 1208 | 1.12 | 1262 |
| 30 | 0 | 0 | 0 | 1.134 | 1.6 | 888 | 1.54 | 919 |
| 40 | 0 | 0 | 0 | 1.134 | 1.72 | 824 | 1.67 | 851 |
| 50 | 0 | 0 | 0 | 1.134 | 1.84 | 772 | 1.79 | 795 |
| 60 | 0 | 0 | 0 | 1.134 | 1.95 | 728 | 1.9 | 748 |
| 70 | 0 | 0 | 0 | 1.134 | 2.06 | 691 | 2 | 708 |
| 80 | 0 | 0 | 0 | 1.134 | 2.16 | 658 | 2.11 | 674 |
| 90 | 0 | 0 | 0 | 1.134 | 2.25 | 630 | 2.2 | 644 |
| 100 | 0 | 0 | 0 | 1.134 | 2.33 | 609 | 2.3 | 618 |
| 110 | 0 | 0 | 0 | 1.134 | 2.39 | 595 | 2.39 | 595 |
| 120 | 0 | 0 | 0 | 1.134 | 2.44 | 582 | 2.44 | 582 |
| 130 | 0 | 0 | 0 | 1.134 | 2.49 | 571 | 2.49 | 571 |
| 167 | 0 | 0 | 0 | 1.134 | 2.66 | 534 | 2.66 | 534 |
| 212 | 0 | 0 | 0 | 1.134 | 2.87 | 496 | 2.87 | 496 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 6.79 | 2500 | 6.79 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 6.29 | 905 | 6.23 | 913 |
| 30 | 0 | 0 | 0 | 1.134 | 6.69 | 851 | 6.63 | 858 |
| 40 | 0 | 0 | 0 | 1.134 | 6.82 | 835 | 6.76 | 842 |
| 50 | 0 | 0 | 0 | 1.134 | 6.95 | 820 | 6.89 | 827 |
| 60 | 0 | 0 | 0 | 1.134 | 7.07 | 806 | 7.01 | 812 |
| 70 | 0 | 0 | 0 | 1.134 | 7.19 | 792 | 7.14 | 799 |
| 80 | 0 | 0 | 0 | 1.134 | 7.31 | 779 | 7.26 | 786 |
| 90 | 0 | 0 | 0 | 1.134 | 7.43 | 767 | 7.37 | 773 |
| 100 | 0 | 0 | 0 | 1.134 | 7.55 | 755 | 7.49 | 761 |
| 110 | 0 | 0 | 0 | 1.134 | 7.66 | 744 | 7.6 | 750 |
| 120 | 0 | 0 | 0 | 1.134 | 7.74 | 737 | 7.72 | 739 |
| 130 | 0 | 0 | 0 | 1.134 | 7.82 | 729 | 7.82 | 729 |
| 167 | 0 | 0 | 0 | 1.134 | 8.06 | 708 | 8.06 | 708 |
| 212 | 0 | 0 | 0 | 1.134 | 8.34 | 684 | 8.34 | 684 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 15.36 | 2500 | 15.36 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 14.87 | 867 | 14.81 | 870 |
| 30 | 0 | 0 | 0 | 1.134 | 15.26 | 845 | 15.21 | 848 |
| 40 | 0 | 0 | 0 | 1.134 | 15.39 | 838 | 15.33 | 841 |
| 50 | 0 | 0 | 0 | 1.134 | 15.52 | 831 | 15.46 | 834 |
| 60 | 0 | 0 | 0 | 1.134 | 15.65 | 824 | 15.59 | 827 |
| 70 | 0 | 0 | 0 | 1.134 | 15.77 | 818 | 15.72 | 821 |
| 80 | 0 | 0 | 0 | 1.134 | 15.9 | 811 | 15.84 | 814 |
| 90 | 0 | 0 | 0 | 1.134 | 16.03 | 805 | 15.96 | 808 |
| 100 | 0 | 0 | 0 | 1.134 | 16.15 | 799 | 16.09 | 802 |
| 110 | 0 | 0 | 0 | 1.134 | 16.27 | 793 | 16.21 | 796 |
| 120 | 0 | 0 | 0 | 1.134 | 16.38 | 788 | 16.33 | 790 |
| 130 | 0 | 0 | 0 | 1.134 | 16.45 | 785 | 16.45 | 785 |
| 167 | 0 | 0 | 0 | 1.134 | 16.74 | 772 | 16.74 | 772 |
| 212 | 0 | 0 | 0 | 1.134 | 17.06 | 758 | 17.06 | 758 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 27.53 | 2500 | 27.53 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 27.04 | 854 | 26.98 | 856 |
| 30 | 0 | 0 | 0 | 1.134 | 27.44 | 842 | 27.38 | 844 |
| 40 | 0 | 0 | 0 | 1.134 | 27.57 | 838 | 27.51 | 840 |
| 50 | 0 | 0 | 0 | 1.134 | 27.7 | 835 | 27.64 | 836 |
| 60 | 0 | 0 | 0 | 1.134 | 27.82 | 831 | 27.77 | 833 |
| 70 | 0 | 0 | 0 | 1.134 | 27.95 | 827 | 27.89 | 829 |
| 80 | 0 | 0 | 0 | 1.134 | 28.08 | 824 | 28.02 | 825 |
| 90 | 0 | 0 | 0 | 1.134 | 28.21 | 820 | 28.15 | 822 |
| 100 | 0 | 0 | 0 | 1.134 | 28.33 | 817 | 28.27 | 818 |
| 110 | 0 | 0 | 0 | 1.134 | 28.46 | 813 | 28.4 | 815 |
| 120 | 0 | 0 | 0 | 1.134 | 28.58 | 810 | 28.52 | 811 |
| 130 | 0 | 0 | 0 | 1.134 | 28.66 | 808 | 28.65 | 808 |
| 167 | 0 | 0 | 0 | 1.134 | 28.96 | 800 | 28.96 | 800 |
| 212 | 0 | 0 | 0 | 1.134 | 29.29 | 791 | 29.29 | 791 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 43.5 | 2500 | 43.5 | 2500* |
| 0 | 0 | 0 | 0 | 1.134 | 43.01 | 848 | 42.95 | 849 |
| 30 | 0 | 0 | 0 | 1.134 | 43.4 | 841 | 43.35 | 842 |
| 40 | 0 | 0 | 0 | 1.134 | 43.53 | 839 | 43.48 | 840 |
| 50 | 0 | 0 | 0 | 1.134 | 43.66 | 836 | 43.61 | 837 |
| 60 | 0 | 0 | 0 | 1.134 | 43.79 | 834 | 43.73 | 835 |
| 70 | 0 | 0 | 0 | 1.134 | 43.92 | 832 | 43.86 | 833 |
| 80 | 0 | 0 | 0 | 1.134 | 44.05 | 830 | 43.99 | 831 |
| 90 | 0 | 0 | 0 | 1.134 | 44.18 | 827 | 44.12 | 828 |
| 100 | 0 | 0 | 0 | 1.134 | 44.31 | 825 | 44.24 | 826 |
| 110 | 0 | 0 | 0 | 1.134 | 44.43 | 823 | 44.37 | 824 |
| 120 | 0 | 0 | 0 | 1.134 | 44.56 | 821 | 44.5 | 822 |
| 130 | 0 | 0 | 0 | 1.134 | 44.64 | 819 | 44.62 | 820 |
| 167 | 0 | 0 | 0 | 1.134 | 44.95 | 814 | 44.95 | 814 |
| 212 | 0 | 0 | 0 | 1.134 | 45.29 | 808 | 45.29 | 808 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 |
| 100.00 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 |
| 125.00 | 2-2 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 |
| 150.00 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 |
| 175.00 | 4-4 | 4-9 | 5-1 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 | 7-4 |
| 200.00 | 5-8 | 6-2 | 6-8 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 |
| 100.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 125.00 | 2-3 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-9 |
| 150.00 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 |
| 175.00 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-7 | 6-11 | 7-2 | 7-4 |
| 200.00 | 5-10 | 6-5 | 6-11 | 7-4 | 7-10 | 8-3 | 8-8 | 9-0 | 9-4 | 9-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.350

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 |
| 125.00 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 |
| 150.00 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 |
| 175.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 200.00 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 |
| 225.00 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 |
| 250.00 | 10-2 | 10-4 | 10-7 | 10-9 | 11-0 | 11-2 | 11-4 | 11-6 | 11-9 | 11-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 |
| 125.00 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 |
| 150.00 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 |
| 175.00 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 200.00 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 |
| 225.00 | 8-4 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 |
| 250.00 | 10-3 | 10-6 | 10-8 | 10-10 | 11-1 | 11-3 | 11-5 | 11-7 | 11-10 | 12-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 |
| 175.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 200.00 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 |
| 225.00 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 |
| 250.00 | 10-5 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 |
| 275.00 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 |
| 300.00 | 15-1 | 15-2 | 15-4 | 15-6 | 15-7 | 15-9 | 15-10 | 16-0 | 16-1 | 16-3 |
| 325.00 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-9 | 18-11 | 19-0 |
| 350.00 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 21-11 | 22-1 |
| 375.00 | 23-7 | 23-10 | 24-0 | 24-2 | 24-5 | 24-7 | 24-10 | 25-0 | 25-2 | 25-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 |
| 175.00 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 200.00 | 6-9 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 |
| 225.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 |
| 250.00 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 |
| 275.00 | 12-8 | 12-10 | 12-11 | 13-0 | 13-2 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 |
| 300.00 | 15-2 | 15-3 | 15-5 | 15-6 | 15-8 | 15-9 | 15-11 | 16-0 | 16-2 | 16-3 |
| 325.00 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 19-0 | 19-1 |
| 350.00 | 20-7 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 |
| 375.00 | 23-8 | 23-11 | 24-1 | 24-4 | 24-6 | 24-8 | 24-11 | 25-1 | 25-3 | 25-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-0 | 7-1 |
| 225.00 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 |
| 250.00 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 |
| 275.00 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 | 13-4 | 13-5 |
| 300.00 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-9 | 15-10 | 15-11 |
| 325.00 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 |
| 350.00 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 |
| 375.00 | 23-11 | 24-1 | 24-2 | 24-3 | 24-5 | 24-6 | 24-7 | 24-9 | 24-10 | 24-11 |
| 400.00 | 27-3 | 27-5 | 27-6 | 27-8 | 27-9 | 27-11 | 28-0 | 28-2 | 28-3 | 28-5 |
| 425.00 | 30-9 | 30-11 | 31-1 | 31-3 | 31-4 | 31-6 | 31-8 | 31-10 | 31-11 | 32-1 |
| 450.00 | 34-7 | 34-9 | 34-10 | 35-0 | 35-2 | 35-4 | 35-6 | 35-8 | 35-10 | 36-0 |
| 475.00 | 38-6 | 38-8 | 38-11 | 39-1 | 39-3 | 39-5 | 39-7 | 39-10 | 40-0 | 40-2 |
| 500.00 | 42-9 | 42-11 | 43-2 | 43-4 | 43-6 | 43-9 | 43-11 | 44-2 | 44-4 | 44-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 |
| 225.00 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 |
| 250.00 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 |
| 275.00 | 12-10 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-5 |
| 300.00 | 15-4 | 15-5 | 15-6 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 |
| 325.00 | 18-0 | 18-1 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 |
| 350.00 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-6 | 21-7 | 21-8 | 21-9 |
| 375.00 | 24-0 | 24-1 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 | 24-9 | 24-11 | 25-0 |
| 400.00 | 27-4 | 27-5 | 27-7 | 27-8 | 27-10 | 27-11 | 28-1 | 28-2 | 28-4 | 28-6 |
| 425.00 | 30-10 | 31-0 | 31-2 | 31-3 | 31-5 | 31-7 | 31-9 | 31-10 | 32-0 | 32-2 |
| 450.00 | 34-7 | 34-9 | 34-11 | 35-1 | 35-3 | 35-5 | 35-7 | 35-9 | 35-11 | 36-1 |
| 475.00 | 38-7 | 38-9 | 39-0 | 39-2 | 39-4 | 39-6 | 39-8 | 39-11 | 40-1 | 40-3 |
| 500.00 | 42-10 | 43-0 | 43-3 | 43-5 | 43-8 | 43-10 | 44-0 | 44-3 | 44-5 | 44-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-9 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 |
| 275.00 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 | 13-3 | 13-4 |
| 300.00 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 |
| 325.00 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-6 | 18-6 | 18-7 | 18-8 |
| 350.00 | 21-1 | 21-2 | 21-2 | 21-3 | 21-4 | 21-5 | 21-5 | 21-6 | 21-7 | 21-8 |
| 375.00 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 | 24-8 | 24-9 | 24-10 |
| 400.00 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 |
| 425.00 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 | 31-9 | 31-11 | 32-0 |
| 450.00 | 34-11 | 35-1 | 35-2 | 35-3 | 35-4 | 35-6 | 35-7 | 35-8 | 35-9 | 35-10 |
| 475.00 | 39-0 | 39-1 | 39-2 | 39-4 | 39-5 | 39-7 | 39-8 | 39-9 | 39-11 | 40-0 |
| 500.00 | 43-3 | 43-4 | 43-6 | 43-7 | 43-9 | 43-10 | 44-0 | 44-1 | 44-3 | 44-4 |
| 525.00 | 47-8 | 47-10 | 48-0 | 48-1 | 48-3 | 48-5 | 48-7 | 48-8 | 48-10 | 49-0 |
| 550.00 | 52-5 | 52-7 | 52-9 | 52-10 | 53-0 | 53-2 | 53-4 | 53-6 | 53-8 | 53-10 |
| 575.00 | 57-4 | 57-6 | 57-8 | 57-10 | 58-0 | 58-2 | 58-4 | 58-6 | 58-8 | 58-10 |
| 600.00 | 62-6 | 62-8 | 62-11 | 63-1 | 63-3 | 63-5 | 63-8 | 63-10 | 64-0 | 64-2 |
| 625.00 | 67-11 | 68-1 | 68-4 | 68-6 | 68-9 | 68-11 | 69-2 | 69-4 | 69-6 | 69-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 |
| 275.00 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 |
| 300.00 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 | 15-11 |
| 325.00 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-5 | 18-6 | 18-7 | 18-7 | 18-8 |
| 350.00 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-5 | 21-6 | 21-6 | 21-7 | 21-8 |
| 375.00 | 24-3 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 |
| 400.00 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 |
| 425.00 | 31-2 | 31-3 | 31-4 | 31-6 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 | 32-0 |
| 450.00 | 35-0 | 35-1 | 35-2 | 35-4 | 35-5 | 35-6 | 35-7 | 35-9 | 35-10 | 35-11 |
| 475.00 | 39-0 | 39-2 | 39-3 | 39-4 | 39-6 | 39-7 | 39-9 | 39-10 | 39-11 | 40-1 |
| 500.00 | 43-3 | 43-5 | 43-6 | 43-8 | 43-10 | 43-11 | 44-1 | 44-2 | 44-4 | 44-5 |
| 525.00 | 47-9 | 47-11 | 48-1 | 48-2 | 48-4 | 48-6 | 48-7 | 48-9 | 48-11 | 49-0 |
| 550.00 | 52-6 | 52-8 | 52-9 | 52-11 | 53-1 | 53-3 | 53-5 | 53-7 | 53-9 | 53-11 |
| 575.00 | 57-5 | 57-7 | 57-9 | 57-11 | 58-1 | 58-3 | 58-5 | 58-7 | 58-9 | 59-0 |
| 600.00 | 62-7 | 62-9 | 63-0 | 63-2 | 63-4 | 63-6 | 63-9 | 63-11 | 64-1 | 64-3 |
| 625.00 | 68-0 | 68-2 | 68-5 | 68-7 | 68-10 | 69-0 | 69-3 | 69-5 | 69-8 | 69-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 1.41 | 3000 | 1.41 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 0.76 | 1867 | 0.72 | 1980 |
| 30 | 0 | 0 | 0 | 1.134 | 1.25 | 1135 | 1.17 | 1208 |
| 40 | 0 | 0 | 0 | 1.134 | 1.4 | 1017 | 1.32 | 1075 |
| 50 | 0 | 0 | 0 | 1.134 | 1.53 | 926 | 1.46 | 974 |
| 60 | 0 | 0 | 0 | 1.134 | 1.66 | 855 | 1.59 | 895 |
| 70 | 0 | 0 | 0 | 1.134 | 1.78 | 797 | 1.71 | 831 |
| 80 | 0 | 0 | 0 | 1.134 | 1.89 | 749 | 1.82 | 778 |
| 90 | 0 | 0 | 0 | 1.134 | 2 | 709 | 1.93 | 734 |
| 100 | 0 | 0 | 0 | 1.134 | 2.11 | 674 | 2.04 | 696 |
| 110 | 0 | 0 | 0 | 1.134 | 2.17 | 656 | 2.14 | 664 |
| 120 | 0 | 0 | 0 | 1.134 | 2.22 | 639 | 2.22 | 639 |
| 130 | 0 | 0 | 0 | 1.134 | 2.27 | 625 | 2.27 | 625 |
| 167 | 0 | 0 | 0 | 1.134 | 2.46 | 578 | 2.46 | 578 |
| 212 | 0 | 0 | 0 | 1.134 | 2.67 | 532 | 2.67 | 532 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 5.65 | 3000 | 5.65 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 4.99 | 1139 | 4.91 | 1158 |
| 30 | 0 | 0 | 0 | 1.134 | 5.48 | 1038 | 5.4 | 1054 |
| 40 | 0 | 0 | 0 | 1.134 | 5.63 | 1010 | 5.55 | 1025 |
| 50 | 0 | 0 | 0 | 1.134 | 5.78 | 984 | 5.7 | 998 |
| 60 | 0 | 0 | 0 | 1.134 | 5.93 | 959 | 5.85 | 973 |
| 70 | 0 | 0 | 0 | 1.134 | 6.07 | 937 | 5.99 | 950 |
| 80 | 0 | 0 | 0 | 1.134 | 6.22 | 916 | 6.13 | 928 |
| 90 | 0 | 0 | 0 | 1.134 | 6.35 | 896 | 6.27 | 908 |
| 100 | 0 | 0 | 0 | 1.134 | 6.49 | 877 | 6.41 | 889 |
| 110 | 0 | 0 | 0 | 1.134 | 6.62 | 860 | 6.54 | 871 |
| 120 | 0 | 0 | 0 | 1.134 | 6.75 | 844 | 6.67 | 854 |
| 130 | 0 | 0 | 0 | 1.134 | 6.83 | 834 | 6.8 | 838 |
| 167 | 0 | 0 | 0 | 1.134 | 7.11 | 801 | 7.11 | 801 |
| 212 | 0 | 0 | 0 | 1.134 | 7.42 | 768 | 7.42 | 768 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 12.76 | 3000 | 12.76 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 12.11 | 1060 | 12.03 | 1068 |
| 30 | 0 | 0 | 0 | 1.134 | 12.59 | 1021 | 12.5 | 1027 |
| 40 | 0 | 0 | 0 | 1.134 | 12.74 | 1008 | 12.66 | 1015 |
| 50 | 0 | 0 | 0 | 1.134 | 12.9 | 996 | 12.81 | 1003 |
| 60 | 0 | 0 | 0 | 1.134 | 13.05 | 985 | 12.96 | 991 |
| 70 | 0 | 0 | 0 | 1.134 | 13.2 | 974 | 13.11 | 980 |
| 80 | 0 | 0 | 0 | 1.134 | 13.35 | 963 | 13.26 | 969 |
| 90 | 0 | 0 | 0 | 1.134 | 13.5 | 953 | 13.41 | 959 |
| 100 | 0 | 0 | 0 | 1.134 | 13.64 | 943 | 13.55 | 949 |
| 110 | 0 | 0 | 0 | 1.134 | 13.79 | 933 | 13.7 | 939 |
| 120 | 0 | 0 | 0 | 1.134 | 13.93 | 924 | 13.84 | 930 |
| 130 | 0 | 0 | 0 | 1.134 | 14.07 | 915 | 13.98 | 920 |
| 167 | 0 | 0 | 0 | 1.134 | 14.4 | 894 | 14.4 | 894 |
| 212 | 0 | 0 | 0 | 1.134 | 14.76 | 873 | 14.76 | 873 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 22.81 | 3000 | 22.81 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 22.17 | 1036 | 22.08 | 1040 |
| 30 | 0 | 0 | 0 | 1.134 | 22.64 | 1015 | 22.56 | 1018 |
| 40 | 0 | 0 | 0 | 1.134 | 22.8 | 1008 | 22.71 | 1012 |
| 50 | 0 | 0 | 0 | 1.134 | 22.95 | 1001 | 22.87 | 1005 |
| 60 | 0 | 0 | 0 | 1.134 | 23.1 | 995 | 23.02 | 998 |
| 70 | 0 | 0 | 0 | 1.134 | 23.26 | 988 | 23.17 | 992 |
| 80 | 0 | 0 | 0 | 1.134 | 23.41 | 982 | 23.32 | 986 |
| 90 | 0 | 0 | 0 | 1.134 | 23.56 | 976 | 23.47 | 980 |
| 100 | 0 | 0 | 0 | 1.134 | 23.71 | 970 | 23.62 | 974 |
| 110 | 0 | 0 | 0 | 1.134 | 23.86 | 964 | 23.77 | 968 |
| 120 | 0 | 0 | 0 | 1.134 | 24.01 | 958 | 23.92 | 962 |
| 130 | 0 | 0 | 0 | 1.134 | 24.16 | 953 | 24.06 | 956 |
| 167 | 0 | 0 | 0 | 1.134 | 24.53 | 939 | 24.53 | 939 |
| 212 | 0 | 0 | 0 | 1.134 | 24.92 | 924 | 24.92 | 924 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.378 | 35.91 | 3000 | 35.91 | 3000* |
| 0 | 0 | 0 | 0 | 1.134 | 35.27 | 1025 | 35.19 | 1027 |
| 30 | 0 | 0 | 0 | 1.134 | 35.74 | 1012 | 35.66 | 1014 |
| 40 | 0 | 0 | 0 | 1.134 | 35.9 | 1008 | 35.81 | 1010 |
| 50 | 0 | 0 | 0 | 1.134 | 36.05 | 1003 | 35.97 | 1006 |
| 60 | 0 | 0 | 0 | 1.134 | 36.21 | 999 | 36.12 | 1002 |
| 70 | 0 | 0 | 0 | 1.134 | 36.36 | 995 | 36.27 | 998 |
| 80 | 0 | 0 | 0 | 1.134 | 36.51 | 991 | 36.42 | 994 |
| 90 | 0 | 0 | 0 | 1.134 | 36.67 | 987 | 36.58 | 990 |
| 100 | 0 | 0 | 0 | 1.134 | 36.82 | 983 | 36.73 | 986 |
| 110 | 0 | 0 | 0 | 1.134 | 36.97 | 980 | 36.88 | 982 |
| 120 | 0 | 0 | 0 | 1.134 | 37.12 | 976 | 37.03 | 978 |
| 130 | 0 | 0 | 0 | 1.134 | 37.27 | 972 | 37.18 | 974 |
| 167 | 0 | 0 | 0 | 1.134 | 37.67 | 962 | 37.67 | 962 |
| 212 | 0 | 0 | 0 | 1.134 | 38.07 | 952 | 38.07 | 952 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 |
| 125.00 | 1-7 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 150.00 | 2-4 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 |
| 175.00 | 3-2 | 3-7 | 4-1 | 4-6 | 4-10 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 |
| 200.00 | 4-1 | 4-8 | 5-3 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 | 8-2 | 8-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100.00 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 |
| 125.00 | 1-8 | 1-11 | 2-2 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-5 |
| 150.00 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 |
| 175.00 | 3-4 | 3-10 | 4-3 | 4-8 | 5-1 | 5-5 | 5-10 | 6-2 | 6-6 | 6-8 |
| 200.00 | 4-4 | 5-0 | 5-7 | 6-2 | 6-8 | 7-2 | 7-7 | 8-0 | 8-5 | 8-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 |
| 125.00 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 |
| 150.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 175.00 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 |
| 200.00 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 |
| 225.00 | 6-8 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 |
| 250.00 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 | 9-10 | 10-0 | 10-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 |
| 125.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 |
| 150.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 175.00 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 |
| 200.00 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 |
| 225.00 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-1 | 8-3 | 8-5 |
| 250.00 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 | 9-6 | 9-9 | 9-11 | 10-2 | 10-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 |
| 175.00 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 |
| 200.00 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 |
| 225.00 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 250.00 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 |
| 275.00 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 |
| 300.00 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 | 13-7 | 13-8 |
| 325.00 | 14-6 | 14-8 | 14-10 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 |
| 350.00 | 16-10 | 17-0 | 17-3 | 17-5 | 17-8 | 17-10 | 18-1 | 18-3 | 18-6 | 18-8 |
| 375.00 | 19-4 | 19-7 | 19-10 | 20-1 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 |
| 175.00 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 |
| 200.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-1 |
| 225.00 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 |
| 250.00 | 8-8 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 |
| 275.00 | 10-5 | 10-7 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 |
| 300.00 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 | 13-8 | 13-9 |
| 325.00 | 14-7 | 14-9 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 |
| 350.00 | 16-11 | 17-2 | 17-4 | 17-7 | 17-9 | 18-0 | 18-2 | 18-5 | 18-7 | 18-9 |
| 375.00 | 19-5 | 19-8 | 19-11 | 20-2 | 20-5 | 20-8 | 20-11 | 21-1 | 21-4 | 21-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 |
| 225.00 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 |
| 250.00 | 8-9 | 8-9 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 |
| 275.00 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-2 |
| 300.00 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 |
| 325.00 | 14-9 | 14-10 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 |
| 350.00 | 17-2 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 17-11 | 18-1 | 18-2 |
| 375.00 | 19-8 | 19-10 | 19-11 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-9 | 20-11 |
| 400.00 | 22-5 | 22-7 | 22-9 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-7 | 23-9 |
| 425.00 | 25-4 | 25-6 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 | 26-10 |
| 450.00 | 28-5 | 28-7 | 28-9 | 29-0 | 29-2 | 29-4 | 29-7 | 29-9 | 29-11 | 30-1 |
| 475.00 | 31-8 | 31-10 | 32-1 | 32-4 | 32-6 | 32-9 | 32-11 | 33-2 | 33-4 | 33-7 |
| 500.00 | 35-1 | 35-4 | 35-7 | 35-10 | 36-1 | 36-4 | 36-6 | 36-9 | 37-0 | 37-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 |
| 225.00 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 |
| 250.00 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-4 |
| 275.00 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-2 | 11-3 |
| 300.00 | 12-7 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 |
| 325.00 | 14-10 | 14-11 | 15-0 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-8 | 15-9 |
| 350.00 | 17-2 | 17-4 | 17-5 | 17-7 | 17-8 | 17-9 | 17-11 | 18-0 | 18-2 | 18-3 |
| 375.00 | 19-9 | 19-11 | 20-0 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 | 20-10 | 21-0 |
| 400.00 | 22-6 | 22-8 | 22-10 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 | 23-10 |
| 425.00 | 25-5 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 | 26-7 | 26-9 | 26-11 |
| 450.00 | 28-6 | 28-8 | 28-11 | 29-1 | 29-3 | 29-6 | 29-8 | 29-10 | 30-1 | 30-3 |
| 475.00 | 31-9 | 32-0 | 32-2 | 32-5 | 32-8 | 32-10 | 33-1 | 33-3 | 33-6 | 33-9 |
| 500.00 | 35-3 | 35-6 | 35-8 | 35-11 | 36-2 | 36-5 | 36-8 | 36-11 | 37-2 | 37-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 |
| 275.00 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 |
| 300.00 | 12-9 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 | 13-3 |
| 325.00 | 14-11 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-4 | 15-5 | 15-5 | 15-6 |
| 350.00 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 | 18-0 |
| 375.00 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 |
| 400.00 | 22-8 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-7 |
| 425.00 | 25-7 | 25-9 | 25-10 | 25-11 | 26-1 | 26-2 | 26-3 | 26-5 | 26-6 | 26-7 |
| 450.00 | 28-9 | 28-10 | 29-0 | 29-1 | 29-3 | 29-4 | 29-6 | 29-7 | 29-9 | 29-10 |
| 475.00 | 32-0 | 32-2 | 32-4 | 32-5 | 32-7 | 32-9 | 32-10 | 33-0 | 33-1 | 33-3 |
| 500.00 | 35-6 | 35-8 | 35-10 | 36-0 | 36-1 | 36-3 | 36-5 | 36-7 | 36-9 | 36-11 |
| 525.00 | 39-2 | 39-4 | 39-6 | 39-8 | 39-10 | 40-0 | 40-2 | 40-4 | 40-6 | 40-8 |
| 550.00 | 43-0 | 43-2 | 43-5 | 43-7 | 43-9 | 43-11 | 44-2 | 44-4 | 44-6 | 44-8 |
| 575.00 | 47-1 | 47-3 | 47-6 | 47-8 | 47-10 | 48-1 | 48-3 | 48-6 | 48-8 | 48-11 |
| 600.00 | 51-3 | 51-6 | 51-9 | 51-11 | 52-2 | 52-5 | 52-7 | 52-10 | 53-1 | 53-3 |
| 625.00 | 55-8 | 55-11 | 56-2 | 56-5 | 56-8 | 56-11 | 57-2 | 57-5 | 57-7 | 57-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 |
| 275.00 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 | 11-2 |
| 300.00 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 |
| 325.00 | 15-0 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 | 15-7 |
| 350.00 | 17-5 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 |
| 375.00 | 19-11 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 |
| 400.00 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 |
| 425.00 | 25-8 | 25-9 | 25-11 | 26-0 | 26-1 | 26-3 | 26-4 | 26-5 | 26-7 | 26-8 |
| 450.00 | 28-9 | 28-11 | 29-0 | 29-2 | 29-3 | 29-5 | 29-6 | 29-8 | 29-9 | 29-11 |
| 475.00 | 32-1 | 32-3 | 32-4 | 32-6 | 32-8 | 32-10 | 32-11 | 33-1 | 33-2 | 33-4 |
| 500.00 | 35-7 | 35-9 | 35-11 | 36-1 | 36-2 | 36-4 | 36-6 | 36-8 | 36-10 | 37-0 |
| 525.00 | 39-3 | 39-5 | 39-7 | 39-9 | 39-11 | 40-1 | 40-3 | 40-5 | 40-7 | 40-9 |
| 550.00 | 43-1 | 43-4 | 43-6 | 43-8 | 43-10 | 44-1 | 44-3 | 44-5 | 44-7 | 44-10 |
| 575.00 | 47-2 | 47-4 | 47-7 | 47-9 | 48-0 | 48-2 | 48-5 | 48-7 | 48-10 | 49-0 |
| 600.00 | 51-5 | 51-7 | 51-10 | 52-1 | 52-4 | 52-6 | 52-9 | 53-0 | 53-2 | 53-5 |
| 625.00 | 55-10 | 56-1 | 56-4 | 56-7 | 56-9 | 57-0 | 57-3 | 57-6 | 57-9 | 58-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 - 5/2 AWAC CONDUCTOR.


G.O. 95 LIGHT LOADING CONDITION
1200 LB TENSION ---------- 814.2
1600 LB TENSION ---------- 814.10

G.O. 95 HEAVY LOADING CONDITION
1600 LB TENSION ---------- 814.18
1800 LB TENSION ---------- 814.26

SDG&E EXTRA HEAVY LOADING CONDITION
1600 LB TENSION ---------- 814.34
1800 LB TENSION ---------- 814.42

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
1200 LB TENSION ---------- 814.50
1600 LB TENSION ---------- 814.58

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
1600 LB TENSION ---------- 814.66
1800 LB TENSION ---------- 814.74

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
1200 LB TENSION ---------- 814.82
1600 LB TENSION ---------- 814.90

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
1600 LB TENSION ---------- 814.98
1800 LB TENSION ---------- 814.106

111 MPH LIGHT KNOWN LOCAL WIND CONDITION
1200 LB TENSION ---------- 814.114
1600 LB TENSION ---------- 814.122

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
1600 LB TENSION ---------- 814.130
1800 LB TENSION ---------- 814.138


TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#2 - 5/2 AWAC TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 0.30 | 1018 | 0.26 | 1200* |
| 25 | 0 | 0 | 0 | 0.111 | 0.14 | 1002 | 0.12 | 1192 |
| 30 | 0 | 0 | 0 | 0.111 | 0.15 | 953 | 0.12 | 1156 |
| 40 | 0 | 0 | 0 | 0.111 | 0.16 | 856 | 0.13 | 1085 |
| 50 | 0 | 0 | 0 | 0.111 | 0.18 | 760 | 0.14 | 1013 |
| 60 | 0 | 0 | 0 | 0.111 | 0.21 | 664 | 0.15 | 939 |
| 70 | 0 | 0 | 0 | 0.111 | 0.24 | 570 | 0.16 | 865 |
| 80 | 0 | 0 | 0 | 0.111 | 0.29 | 477 | 0.18 | 790 |
| 90 | 0 | 0 | 0 | 0.111 | 0.36 | 389 | 0.19 | 715 |
| 100 | 0 | 0 | 0 | 0.111 | 0.45 | 307 | 0.22 | 639 |
| 110 | 0 | 0 | 0 | 0.111 | 0.58 | 238 | 0.25 | 562 |
| 120 | 0 | 0 | 0 | 0.111 | 0.74 | 187 | 0.29 | 487 |
| 130 | 0 | 0 | 0 | 0.111 | 0.92 | 151 | 0.34 | 412 |
| 167 | 0 | 0 | 0 | 0.111 | 1.50 | 93 | 0.74 | 188 |
| 212 | 0 | 0 | 0 | 0.111 | 2.04 | 68 | 1.44 | 96 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 1.19 | 1038 | 1.03 | 1200* |
| 25 | 0 | 0 | 0 | 0.111 | 0.57 | 979 | 0.48 | 1167 |
| 30 | 0 | 0 | 0 | 0.111 | 0.60 | 932 | 0.49 | 1132 |
| 40 | 0 | 0 | 0 | 0.111 | 0.66 | 838 | 0.52 | 1062 |
| 50 | 0 | 0 | 0 | 0.111 | 0.74 | 747 | 0.56 | 990 |
| 60 | 0 | 0 | 0 | 0.111 | 0.84 | 657 | 0.60 | 918 |
| 70 | 0 | 0 | 0 | 0.111 | 0.97 | 572 | 0.66 | 846 |
| 80 | 0 | 0 | 0 | 0.111 | 1.13 | 492 | 0.72 | 773 |
| 90 | 0 | 0 | 0 | 0.111 | 1.32 | 420 | 0.79 | 701 |
| 100 | 0 | 0 | 0 | 0.111 | 1.55 | 358 | 0.88 | 630 |
| 110 | 0 | 0 | 0 | 0.111 | 1.81 | 307 | 0.99 | 560 |
| 120 | 0 | 0 | 0 | 0.111 | 2.08 | 267 | 1.13 | 493 |
| 130 | 0 | 0 | 0 | 0.111 | 2.36 | 235 | 1.29 | 431 |
| 167 | 0 | 0 | 0 | 0.111 | 3.31 | 168 | 2.13 | 260 |
| 212 | 0 | 0 | 0 | 0.111 | 4.29 | 130 | 3.27 | 170 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 2.61 | 1064 | 2.31 | 1200* |
| 25 | 0 | 0 | 0 | 0.111 | 1.33 | 942 | 1.11 | 1128 |
| 30 | 0 | 0 | 0 | 0.111 | 1.39 | 898 | 1.14 | 1093 |
| 40 | 0 | 0 | 0 | 0.111 | 1.54 | 810 | 1.22 | 1024 |
| 50 | 0 | 0 | 0 | 0.111 | 1.72 | 726 | 1.31 | 954 |
| 60 | 0 | 0 | 0 | 0.111 | 1.93 | 647 | 1.41 | 885 |
| 70 | 0 | 0 | 0 | 0.111 | 2.18 | 574 | 1.53 | 816 |
| 80 | 0 | 0 | 0 | 0.111 | 2.46 | 507 | 1.67 | 748 |
| 90 | 0 | 0 | 0 | 0.111 | 2.78 | 450 | 1.83 | 682 |
| 100 | 0 | 0 | 0 | 0.111 | 3.12 | 400 | 2.02 | 618 |
| 110 | 0 | 0 | 0 | 0.111 | 3.48 | 359 | 2.24 | 557 |
| 120 | 0 | 0 | 0 | 0.111 | 3.84 | 325 | 2.49 | 501 |
| 130 | 0 | 0 | 0 | 0.111 | 4.20 | 298 | 2.77 | 450 |
| 167 | 0 | 0 | 0 | 0.111 | 5.46 | 229 | 3.98 | 314 |
| 212 | 0 | 0 | 0 | 0.111 | 6.80 | 184 | 5.47 | 229 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 4.52 | 1090 | 4.11 | 1200* |
| 25 | 0 | 0 | 0 | 0.111 | 2.48 | 895 | 2.07 | 1075 |
| 30 | 0 | 0 | 0 | 0.111 | 2.60 | 854 | 2.13 | 1041 |
| 40 | 0 | 0 | 0 | 0.111 | 2.86 | 776 | 2.28 | 975 |
| 50 | 0 | 0 | 0 | 0.111 | 3.16 | 702 | 2.44 | 908 |
| 60 | 0 | 0 | 0 | 0.111 | 3.50 | 635 | 2.63 | 843 |
| 70 | 0 | 0 | 0 | 0.111 | 3.87 | 574 | 2.85 | 780 |
| 80 | 0 | 0 | 0 | 0.111 | 4.27 | 520 | 3.09 | 718 |
| 90 | 0 | 0 | 0 | 0.111 | 4.69 | 474 | 3.37 | 660 |
| 100 | 0 | 0 | 0 | 0.111 | 5.12 | 434 | 3.67 | 605 |
| 110 | 0 | 0 | 0 | 0.111 | 5.56 | 399 | 4.01 | 554 |
| 120 | 0 | 0 | 0 | 0.111 | 6.00 | 370 | 4.37 | 508 |
| 130 | 0 | 0 | 0 | 0.111 | 6.43 | 345 | 4.75 | 467 |
| 167 | 0 | 0 | 0 | 0.111 | 7.95 | 280 | 6.26 | 355 |
| 212 | 0 | 0 | 0 | 0.111 | 9.60 | 232 | 8.04 | 276 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 6.93 | 1112 | 6.42 | 1200* |
| 25 | 0 | 0 | 0 | 0.111 | 4.12 | 842 | 3.43 | 1012 |
| 30 | 0 | 0 | 0 | 0.111 | 4.30 | 806 | 3.54 | 980 |
| 40 | 0 | 0 | 0 | 0.111 | 4.69 | 739 | 3.78 | 917 |
| 50 | 0 | 0 | 0 | 0.111 | 5.12 | 678 | 4.05 | 856 |
| 60 | 0 | 0 | 0 | 0.111 | 5.58 | 622 | 4.35 | 798 |
| 70 | 0 | 0 | 0 | 0.111 | 6.06 | 573 | 4.68 | 741 |
| 80 | 0 | 0 | 0 | 0.111 | 6.56 | 529 | 5.04 | 688 |
| 90 | 0 | 0 | 0 | 0.111 | 7.06 | 492 | 5.43 | 639 |
| 100 | 0 | 0 | 0 | 0.111 | 7.57 | 458 | 5.85 | 593 |
| 110 | 0 | 0 | 0 | 0.111 | 8.08 | 430 | 6.29 | 552 |
| 120 | 0 | 0 | 0 | 0.111 | 8.58 | 405 | 6.75 | 514 |
| 130 | 0 | 0 | 0 | 0.111 | 9.08 | 383 | 7.22 | 481 |
| 167 | 0 | 0 | 0 | 0.111 | 10.82 | 321 | 8.98 | 387 |
| 212 | 0 | 0 | 0 | 0.111 | 12.74 | 273 | 11.02 | 315 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-7 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-7 | 0-8 | 0-11 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-4 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-5 | 1-9 |
| 200.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-10 | 2-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-11 | 1-0 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 |
| 200.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 2-0 | 2-3 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-1 | 2-5 | 2-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.6

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 |
| 250.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 |
| 275.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-11 |
| 300.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 |
| 325.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-8 |
| 350.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-1 |
| 375.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-5 | 2-7 | 2-10 | 3-2 | 3-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 |
| 225.00 | 0-9 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-5 |
| 275.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-11 |
| 300.00 | 1-3 | 1-5 | 1-6 | 1-9 | 1-11 | 2-2 | 2-6 | 2-9 | 3-1 | 3-6 |
| 325.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-8 | 4-1 |
| 350.00 | 1-9 | 1-11 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-9 | 4-3 | 4-9 |
| 375.00 | 2-0 | 2-2 | 2-5 | 2-8 | 3-0 | 3-5 | 3-10 | 4-4 | 4-11 | 5-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS



OH814.7

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 250.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 |
| 275.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 |
| 300.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 |
| 325.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-3 | 2-5 | 2-8 |
| 350.00 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 |
| 375.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-3 | 3-6 |
| 400.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 |
| 425.00 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-6 |
| 450.00 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-8 | 5-1 |
| 475.00 | 2-10 | 3-0 | 3-3 | 3-5 | 3-9 | 4-0 | 4-4 | 4-9 | 5-2 | 5-8 |
| 500.00 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-10 | 5-3 | 5-9 | 6-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 |
| 275.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 |
| 300.00 | 1-4 | 1-6 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 |
| 325.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 |
| 350.00 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 |
| 375.00 | 2-1 | 2-3 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 | 4-6 | 4-11 |
| 400.00 | 2-4 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 | 4-3 | 4-8 | 5-1 | 5-7 |
| 425.00 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 | 4-4 | 4-10 | 5-4 | 5-9 | 6-3 |
| 450.00 | 3-0 | 3-3 | 3-7 | 4-0 | 4-5 | 4-11 | 5-5 | 5-11 | 6-6 | 7-0 |
| 475.00 | 3-4 | 3-8 | 4-0 | 4-5 | 4-11 | 5-5 | 6-0 | 6-7 | 7-3 | 7-10 |
| 500.00 | 3-8 | 4-1 | 4-6 | 4-11 | 5-6 | 6-1 | 6-8 | 7-4 | 8-0 | 8-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 300.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 325.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 350.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 |
| 375.00 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 |
| 400.00 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 |
| 425.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 |
| 450.00 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 |
| 475.00 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-8 |
| 500.00 | 3-4 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 5-1 | 5-5 | 5-10 | 6-3 |
| 525.00 | 3-8 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 6-0 | 6-5 | 6-11 |
| 550.00 | 4-0 | 4-3 | 4-7 | 4-11 | 5-3 | 5-8 | 6-1 | 6-7 | 7-1 | 7-7 |
| 575.00 | 4-5 | 4-8 | 5-0 | 5-4 | 5-9 | 6-2 | 6-8 | 7-2 | 7-9 | 8-4 |
| 600.00 | 4-9 | 5-1 | 5-5 | 5-10 | 6-3 | 6-9 | 7-3 | 7-10 | 8-5 | 9-1 |
| 625.00 | 5-2 | 5-6 | 5-11 | 6-4 | 6-10 | 7-4 | 7-11 | 8-6 | 9-2 | 9-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 275.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 |
| 300.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 |
| 325.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 |
| 350.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 |
| 375.00 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 |
| 400.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 |
| 425.00 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-5 | 4-9 | 5-1 | 5-6 | 5-10 |
| 450.00 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 | 4-11 | 5-4 | 5-9 | 6-2 | 6-7 |
| 475.00 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-6 | 5-11 | 6-4 | 6-10 | 7-4 |
| 500.00 | 3-11 | 4-4 | 4-8 | 5-1 | 5-7 | 6-1 | 6-7 | 7-1 | 7-7 | 8-1 |
| 525.00 | 4-4 | 4-9 | 5-2 | 5-8 | 6-2 | 6-8 | 7-3 | 7-9 | 8-4 | 8-11 |
| 550.00 | 4-9 | 5-2 | 5-8 | 6-2 | 6-9 | 7-4 | 7-11 | 8-7 | 9-2 | 9-9 |
| 575.00 | 5-3 | 5-8 | 6-3 | 6-9 | 7-5 | 8-0 | 8-8 | 9-4 | 10-0 | 10-8 |
| 600.00 | 5-8 | 6-2 | 6-9 | 7-4 | 8-0 | 8-9 | 9-5 | 10-2 | 10-11 | 11-8 |
| 625.00 | 6-2 | 6-9 | 7-4 | 8-0 | 8-9 | 9-6 | 10-3 | 11-0 | 11-10 | 12-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 0.24 | 1291 | 0.19 | 1600* |
| 25 | 0 | 0 | 0 | 0.111 | 0.11 | 1281 | 0.09 | 1596 |
| 30 | 0 | 0 | 0 | 0.111 | 0.11 | 1232 | 0.09 | 1564 |
| 40 | 0 | 0 | 0 | 0.111 | 0.12 | 1135 | 0.09 | 1499 |
| 50 | 0 | 0 | 0 | 0.111 | 0.13 | 1037 | 0.10 | 1433 |
| 60 | 0 | 0 | 0 | 0.111 | 0.15 | 940 | 0.10 | 1366 |
| 70 | 0 | 0 | 0 | 0.111 | 0.16 | 843 | 0.11 | 1297 |
| 80 | 0 | 0 | 0 | 0.111 | 0.19 | 747 | 0.11 | 1228 |
| 90 | 0 | 0 | 0 | 0.111 | 0.21 | 651 | 0.12 | 1158 |
| 100 | 0 | 0 | 0 | 0.111 | 0.25 | 557 | 0.13 | 1086 |
| 110 | 0 | 0 | 0 | 0.111 | 0.30 | 465 | 0.14 | 1014 |
| 120 | 0 | 0 | 0 | 0.111 | 0.37 | 377 | 0.15 | 941 |
| 130 | 0 | 0 | 0 | 0.111 | 0.47 | 297 | 0.16 | 866 |
| 167 | 0 | 0 | 0 | 0.111 | 1.06 | 131 | 0.24 | 587 |
| 212 | 0 | 0 | 0 | 0.111 | 1.71 | 81 | 0.53 | 264 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 0.94 | 1308 | 0.77 | 1600* |
| 25 | 0 | 0 | 0 | 0.111 | 0.44 | 1270 | 0.35 | 1583 |
| 30 | 0 | 0 | 0 | 0.111 | 0.45 | 1222 | 0.36 | 1551 |
| 40 | 0 | 0 | 0 | 0.111 | 0.49 | 1126 | 0.37 | 1486 |
| 50 | 0 | 0 | 0 | 0.111 | 0.54 | 1031 | 0.39 | 1421 |
| 60 | 0 | 0 | 0 | 0.111 | 0.59 | 936 | 0.41 | 1354 |
| 70 | 0 | 0 | 0 | 0.111 | 0.66 | 843 | 0.43 | 1286 |
| 80 | 0 | 0 | 0 | 0.111 | 0.74 | 751 | 0.46 | 1217 |
| 90 | 0 | 0 | 0 | 0.111 | 0.84 | 661 | 0.48 | 1147 |
| 100 | 0 | 0 | 0 | 0.111 | 0.96 | 575 | 0.52 | 1076 |
| 110 | 0 | 0 | 0 | 0.111 | 1.12 | 495 | 0.55 | 1005 |
| 120 | 0 | 0 | 0 | 0.111 | 1.31 | 423 | 0.59 | 933 |
| 130 | 0 | 0 | 0 | 0.111 | 1.54 | 360 | 0.64 | 861 |
| 167 | 0 | 0 | 0 | 0.111 | 2.54 | 219 | 0.93 | 595 |
| 212 | 0 | 0 | 0 | 0.111 | 3.65 | 152 | 1.70 | 326 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 2.08 | 1333 | 1.73 | 1600* |
| 25 | 0 | 0 | 0 | 0.111 | 1.00 | 1252 | 0.80 | 1563 |
| 30 | 0 | 0 | 0 | 0.111 | 1.04 | 1205 | 0.82 | 1531 |
| 40 | 0 | 0 | 0 | 0.111 | 1.12 | 1112 | 0.85 | 1466 |
| 50 | 0 | 0 | 0 | 0.111 | 1.22 | 1020 | 0.89 | 1400 |
| 60 | 0 | 0 | 0 | 0.111 | 1.34 | 929 | 0.94 | 1334 |
| 70 | 0 | 0 | 0 | 0.111 | 1.49 | 841 | 0.99 | 1267 |
| 80 | 0 | 0 | 0 | 0.111 | 1.65 | 755 | 1.04 | 1199 |
| 90 | 0 | 0 | 0 | 0.111 | 1.85 | 674 | 1.11 | 1130 |
| 100 | 0 | 0 | 0 | 0.111 | 2.09 | 599 | 1.18 | 1061 |
| 110 | 0 | 0 | 0 | 0.111 | 2.36 | 530 | 1.26 | 991 |
| 120 | 0 | 0 | 0 | 0.111 | 2.66 | 469 | 1.35 | 922 |
| 130 | 0 | 0 | 0 | 0.111 | 3.00 | 417 | 1.47 | 852 |
| 167 | 0 | 0 | 0 | 0.111 | 4.32 | 289 | 2.06 | 607 |
| 212 | 0 | 0 | 0 | 0.111 | 5.82 | 215 | 3.30 | 379 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 3.62 | 1362 | 3.08 | 1600* |
| 25 | 0 | 0 | 0 | 0.111 | 1.81 | 1228 | 1.45 | 1534 |
| 30 | 0 | 0 | 0 | 0.111 | 1.88 | 1182 | 1.48 | 1502 |
| 40 | 0 | 0 | 0 | 0.111 | 2.03 | 1093 | 1.54 | 1438 |
| 50 | 0 | 0 | 0 | 0.111 | 2.21 | 1005 | 1.62 | 1373 |
| 60 | 0 | 0 | 0 | 0.111 | 2.41 | 920 | 1.70 | 1307 |
| 70 | 0 | 0 | 0 | 0.111 | 2.65 | 838 | 1.79 | 1241 |
| 80 | 0 | 0 | 0 | 0.111 | 2.92 | 760 | 1.89 | 1174 |
| 90 | 0 | 0 | 0 | 0.111 | 3.23 | 688 | 2.01 | 1107 |
| 100 | 0 | 0 | 0 | 0.111 | 3.57 | 622 | 2.14 | 1040 |
| 110 | 0 | 0 | 0 | 0.111 | 3.95 | 562 | 2.28 | 973 |
| 120 | 0 | 0 | 0 | 0.111 | 4.35 | 510 | 2.45 | 907 |
| 130 | 0 | 0 | 0 | 0.111 | 4.78 | 465 | 2.64 | 842 |
| 167 | 0 | 0 | 0 | 0.111 | 6.39 | 348 | 3.58 | 620 |
| 212 | 0 | 0 | 0 | 0.111 | 8.22 | 270 | 5.24 | 424 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.246 | 5.54 | 1391 | 4.81 | 1600* |
| 25 | 0 | 0 | 0 | 0.111 | 2.90 | 1198 | 2.32 | 1498 |
| 30 | 0 | 0 | 0 | 0.111 | 3.01 | 1154 | 2.37 | 1466 |
| 40 | 0 | 0 | 0 | 0.111 | 3.24 | 1069 | 2.47 | 1402 |
| 50 | 0 | 0 | 0 | 0.111 | 3.51 | 987 | 2.59 | 1338 |
| 60 | 0 | 0 | 0 | 0.111 | 3.82 | 908 | 2.72 | 1274 |
| 70 | 0 | 0 | 0 | 0.111 | 4.16 | 834 | 2.87 | 1209 |
| 80 | 0 | 0 | 0 | 0.111 | 4.54 | 765 | 3.03 | 1144 |
| 90 | 0 | 0 | 0 | 0.111 | 4.95 | 701 | 3.21 | 1079 |
| 100 | 0 | 0 | 0 | 0.111 | 5.40 | 643 | 3.42 | 1015 |
| 110 | 0 | 0 | 0 | 0.111 | 5.87 | 591 | 3.64 | 952 |
| 120 | 0 | 0 | 0 | 0.111 | 6.36 | 546 | 3.90 | 890 |
| 130 | 0 | 0 | 0 | 0.111 | 6.86 | 506 | 4.18 | 830 |
| 167 | 0 | 0 | 0 | 0.111 | 8.74 | 397 | 5.49 | 632 |
| 212 | 0 | 0 | 0 | 0.111 | 10.87 | 320 | 7.52 | 462 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.14

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 300.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 325.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 350.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 375.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 225.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-8 |
| 275.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 |
| 300.00 | 1-0 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-9 |
| 350.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 | 3-3 |
| 375.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS



OH814.15

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 300.00 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 325.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 350.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 375.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 |
| 400.00 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 |
| 425.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 |
| 450.00 | 1-10 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-11 |
| 475.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 |
| 500.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 | 3-2 | 3-4 | 3-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 |
| 250.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 |
| 275.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 |
| 350.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 |
| 375.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-2 | 3-6 |
| 400.00 | 1-9 | 1-11 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 |
| 425.00 | 2-0 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-0 | 4-5 |
| 450.00 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-1 | 4-6 | 5-0 |
| 475.00 | 2-5 | 2-8 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 | 4-7 | 5-0 | 5-7 |
| 500.00 | 2-9 | 2-11 | 3-2 | 3-5 | 3-9 | 4-2 | 4-7 | 5-1 | 5-7 | 6-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 300.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 325.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 350.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 375.00 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 |
| 400.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 425.00 | 1-8 | 1-9 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 |
| 450.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 |
| 475.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 500.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 |
| 525.00 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 |
| 550.00 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 |
| 575.00 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-10 |
| 600.00 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-8 | 4-11 | 5-3 |
| 625.00 | 3-7 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 5-0 | 5-4 | 5-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 |
| 275.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 |
| 350.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 |
| 375.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-4 |
| 400.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 |
| 425.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 |
| 450.00 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 | 4-9 |
| 475.00 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-9 | 4-1 | 4-6 | 4-10 | 5-4 |
| 500.00 | 2-10 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-6 | 4-11 | 5-5 | 5-10 |
| 525.00 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-6 | 5-11 | 6-6 |
| 550.00 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 5-0 | 5-6 | 6-0 | 6-6 | 7-1 |
| 575.00 | 3-8 | 4-0 | 4-3 | 4-8 | 5-1 | 5-6 | 6-0 | 6-7 | 7-2 | 7-9 |
| 600.00 | 4-0 | 4-4 | 4-8 | 5-1 | 5-6 | 6-0 | 6-6 | 7-2 | 7-9 | 8-5 |
| 625.00 | 4-4 | 4-8 | 5-1 | 5-6 | 6-0 | 6-6 | 7-1 | 7-9 | 8-5 | 9-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 0.914 | 0.77 | 1491 | 0.71 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.10 | 1365 | 0.09 | 1528 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.13 | 1072 | 0.10 | 1328 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.14 | 975 | 0.11 | 1259 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.16 | 878 | 0.12 | 1189 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.18 | 781 | 0.12 | 1118 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.20 | 685 | 0.13 | 1047 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.23 | 590 | 0.14 | 974 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.28 | 497 | 0.15 | 900 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.34 | 408 | 0.17 | 825 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.43 | 324 | 0.19 | 750 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.55 | 252 | 0.21 | 674 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.71 | 197 | 0.23 | 598 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.32 | 105 | 0.43 | 325 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.90 | 73 | 1.07 | 130 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 0.914 | 2.86 | 1600 | 2.86 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.48 | 1168 | 0.43 | 1306 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.63 | 883 | 0.51 | 1097 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.70 | 790 | 0.54 | 1026 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.79 | 699 | 0.58 | 954 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.91 | 612 | 0.63 | 882 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.05 | 529 | 0.69 | 810 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.23 | 453 | 0.75 | 737 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.44 | 386 | 0.83 | 665 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.68 | 330 | 0.93 | 595 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.95 | 284 | 1.05 | 526 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 2.23 | 249 | 1.20 | 461 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 2.50 | 222 | 1.38 | 402 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 3.44 | 162 | 2.26 | 245 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 4.39 | 127 | 3.38 | 164 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 0.914 | 6.44 | 1600 | 6.44 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.84 | 679 | 1.35 | 923 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 2.64 | 473 | 1.74 | 718 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 2.98 | 420 | 1.92 | 652 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 3.33 | 375 | 2.12 | 590 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 3.69 | 339 | 2.35 | 531 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 4.05 | 309 | 2.62 | 477 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 4.41 | 284 | 2.91 | 429 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 4.76 | 263 | 3.23 | 387 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 5.09 | 245 | 3.56 | 351 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 5.42 | 231 | 3.90 | 321 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 5.74 | 218 | 4.24 | 295 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 6.04 | 207 | 4.58 | 273 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 7.09 | 176 | 5.76 | 217 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.22 | 152 | 7.04 | 178 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 0.914 | 11.46 | 1600 | 11.46 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 6.29 | 353 | 4.53 | 490 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 7.55 | 295 | 5.74 | 387 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 7.94 | 280 | 6.15 | 361 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.33 | 267 | 6.56 | 339 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.70 | 256 | 6.96 | 319 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 9.06 | 245 | 7.36 | 302 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 9.42 | 236 | 7.75 | 287 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 9.76 | 228 | 8.13 | 274 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 10.10 | 220 | 8.50 | 262 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 10.42 | 214 | 8.86 | 251 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 10.74 | 207 | 9.21 | 241 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 11.06 | 201 | 9.56 | 233 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 12.15 | 183 | 10.76 | 207 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 13.38 | 167 | 12.09 | 184 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 0.914 | 17.94 | 1600 | 17.94 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 12.98 | 268 | 11.12 | 313 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 14.14 | 246 | 12.37 | 281 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 14.51 | 240 | 12.77 | 272 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 14.87 | 234 | 13.16 | 264 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 15.22 | 229 | 13.55 | 257 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 15.57 | 224 | 13.92 | 250 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 15.91 | 219 | 14.29 | 243 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 16.25 | 214 | 14.66 | 238 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 16.58 | 210 | 15.01 | 232 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 16.90 | 206 | 15.36 | 227 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 17.22 | 202 | 15.70 | 222 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 17.53 | 199 | 16.04 | 217 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 18.65 | 187 | 17.23 | 202 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 19.93 | 175 | 18.59 | 188 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 | 0-9 | 1-0 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-9 | 0-10 | 1-1 | 1-4 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-2 | 2-6 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-3 | 2-8 | 3-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 |
| 250.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-8 |
| 275.00 | 1-4 | 1-6 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-9 | 3-0 | 3-3 |
| 300.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-11 | 3-3 | 3-7 | 3-11 |
| 325.00 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-2 | 4-7 |
| 350.00 | 2-2 | 2-4 | 2-7 | 2-11 | 3-2 | 3-7 | 4-0 | 4-5 | 4-10 | 5-4 |
| 375.00 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-1 | 4-7 | 5-1 | 5-7 | 6-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 |
| 225.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-1 |
| 250.00 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 |
| 275.00 | 2-0 | 2-3 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 |
| 300.00 | 2-4 | 2-8 | 3-0 | 3-4 | 3-8 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 |
| 325.00 | 2-9 | 3-1 | 3-6 | 3-11 | 4-4 | 4-9 | 5-2 | 5-7 | 6-0 | 6-4 |
| 350.00 | 3-2 | 3-7 | 4-1 | 4-6 | 5-0 | 5-6 | 6-0 | 6-6 | 6-11 | 7-5 |
| 375.00 | 3-8 | 4-2 | 4-8 | 5-2 | 5-9 | 6-4 | 6-11 | 7-5 | 8-0 | 8-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 |
| 225.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 |
| 250.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 275.00 | 2-6 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 300.00 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 | 4-9 | 5-0 |
| 325.00 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 |
| 350.00 | 4-1 | 4-5 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 | 6-9 |
| 375.00 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 | 6-6 | 6-10 | 7-2 | 7-6 | 7-9 |
| 400.00 | 5-4 | 5-9 | 6-2 | 6-7 | 7-0 | 7-4 | 7-9 | 8-2 | 8-6 | 8-10 |
| 425.00 | 6-0 | 6-6 | 6-11 | 7-5 | 7-10 | 8-4 | 8-9 | 9-2 | 9-7 | 10-0 |
| 450.00 | 6-9 | 7-3 | 7-9 | 8-4 | 8-10 | 9-4 | 9-10 | 10-3 | 10-9 | 11-3 |
| 475.00 | 7-6 | 8-1 | 8-8 | 9-3 | 9-10 | 10-5 | 10-11 | 11-6 | 12-0 | 12-6 |
| 500.00 | 8-4 | 9-0 | 9-7 | 10-3 | 10-11 | 11-6 | 12-1 | 12-8 | 13-3 | 13-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 225.00 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 |
| 250.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 3-11 | 4-1 |
| 275.00 | 3-4 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 300.00 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 | 5-10 |
| 325.00 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 | 6-11 |
| 350.00 | 5-6 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 | 8-0 |
| 375.00 | 6-3 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-3 | 8-7 | 8-10 | 9-2 |
| 400.00 | 7-2 | 7-7 | 7-11 | 8-4 | 8-8 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 |
| 425.00 | 8-1 | 8-6 | 9-0 | 9-5 | 9-10 | 10-3 | 10-8 | 11-0 | 11-5 | 11-9 |
| 450.00 | 9-0 | 9-7 | 10-1 | 10-6 | 11-0 | 11-6 | 11-11 | 12-4 | 12-9 | 13-2 |
| 475.00 | 10-1 | 10-8 | 11-2 | 11-9 | 12-3 | 12-9 | 13-3 | 13-9 | 14-3 | 14-8 |
| 500.00 | 11-2 | 11-10 | 12-5 | 13-0 | 13-7 | 14-2 | 14-9 | 15-3 | 15-9 | 16-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-8 |
| 300.00 | 4-4 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 |
| 325.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-6 |
| 350.00 | 5-10 | 6-1 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 |
| 375.00 | 6-9 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-8 |
| 400.00 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-7 | 9-10 |
| 425.00 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-1 | 10-4 | 10-7 | 10-10 | 11-1 |
| 450.00 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-3 | 11-7 | 11-10 | 12-2 | 12-5 |
| 475.00 | 10-10 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-10 |
| 500.00 | 12-0 | 12-4 | 12-9 | 13-2 | 13-7 | 13-11 | 14-4 | 14-8 | 15-0 | 15-4 |
| 525.00 | 13-2 | 13-8 | 14-1 | 14-6 | 14-11 | 15-4 | 15-9 | 16-2 | 16-7 | 16-11 |
| 550.00 | 14-6 | 15-0 | 15-5 | 15-11 | 16-5 | 16-10 | 17-4 | 17-9 | 18-2 | 18-7 |
| 575.00 | 15-10 | 16-4 | 16-11 | 17-5 | 17-11 | 18-5 | 18-11 | 19-5 | 19-10 | 20-4 |
| 600.00 | 17-3 | 17-10 | 18-5 | 19-0 | 19-6 | 20-1 | 20-7 | 21-1 | 21-8 | 22-2 |
| 625.00 | 18-8 | 19-4 | 20-0 | 20-7 | 21-2 | 21-9 | 22-4 | 22-11 | 23-6 | 24-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 275.00 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 |
| 300.00 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 |
| 325.00 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-2 |
| 350.00 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 |
| 375.00 | 7-9 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 |
| 400.00 | 8-10 | 9-1 | 9-3 | 9-6 | 9-9 | 10-0 | 10-2 | 10-5 | 10-7 | 10-10 |
| 425.00 | 9-11 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-2 |
| 450.00 | 11-2 | 11-5 | 11-9 | 12-0 | 12-4 | 12-7 | 12-11 | 13-2 | 13-5 | 13-8 |
| 475.00 | 12-5 | 12-9 | 13-1 | 13-5 | 13-9 | 14-1 | 14-4 | 14-8 | 14-11 | 15-3 |
| 500.00 | 13-9 | 14-2 | 14-6 | 14-10 | 15-3 | 15-7 | 15-11 | 16-3 | 16-7 | 16-11 |
| 525.00 | 15-2 | 15-7 | 16-0 | 16-5 | 16-9 | 17-2 | 17-7 | 17-11 | 18-3 | 18-8 |
| 550.00 | 16-8 | 17-1 | 17-7 | 18-0 | 18-5 | 18-10 | 19-3 | 19-8 | 20-1 | 20-5 |
| 575.00 | 18-2 | 18-8 | 19-2 | 19-8 | 20-2 | 20-7 | 21-1 | 21-6 | 21-11 | 22-4 |
| 600.00 | 19-10 | 20-4 | 20-11 | 21-5 | 21-11 | 22-5 | 22-11 | 23-5 | 23-11 | 24-4 |
| 625.00 | 21-6 | 22-1 | 22-8 | 23-3 | 23-10 | 24-4 | 24-11 | 25-5 | 25-11 | 26-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 0.914 | 0.70 | 1628 | 0.63 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.09 | 1522 | 0.08 | 1747 |
| 30 | 0 | 0 | 0 | 0.111 | 0.11 | 1229 | 0.09 | 1559 |
| 40 | 0 | 0 | 0 | 0.111 | 0.12 | 1131 | 0.09 | 1494 |
| 50 | 0 | 0 | 0 | 0.111 | 0.13 | 1034 | 0.10 | 1428 |
| 60 | 0 | 0 | 0 | 0.111 | 0.15 | 937 | 0.10 | 1360 |
| 70 | 0 | 0 | 0 | 0.111 | 0.17 | 840 | 0.11 | 1292 |
| 80 | 0 | 0 | 0 | 0.111 | 0.19 | 744 | 0.11 | 1223 |
| 90 | 0 | 0 | 0 | 0.111 | 0.21 | 648 | 0.12 | 1152 |
| 100 | 0 | 0 | 0 | 0.111 | 0.25 | 554 | 0.13 | 1081 |
| 110 | 0 | 0 | 0 | 0.111 | 0.30 | 462 | 0.14 | 1008 |
| 120 | 0 | 0 | 0 | 0.111 | 0.37 | 374 | 0.15 | 935 |
| 130 | 0 | 0 | 0 | 0.111 | 0.47 | 294 | 0.16 | 861 |
| 167 | 0 | 0 | 0 | 0.111 | 1.06 | 130 | 0.24 | 581 |
| 212 | 0 | 0 | 0 | 0.111 | 1.71 | 81 | 0.53 | 259 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 0.914 | 2.60 | 1758 | 2.54 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.40 | 1398 | 0.35 | 1582 |
| 30 | 0 | 0 | 0 | 0.111 | 0.50 | 1109 | 0.40 | 1386 |
| 40 | 0 | 0 | 0 | 0.111 | 0.55 | 1014 | 0.42 | 1318 |
| 50 | 0 | 0 | 0 | 0.111 | 0.60 | 919 | 0.44 | 1250 |
| 60 | 0 | 0 | 0 | 0.111 | 0.67 | 826 | 0.47 | 1181 |
| 70 | 0 | 0 | 0 | 0.111 | 0.76 | 734 | 0.50 | 1110 |
| 80 | 0 | 0 | 0 | 0.111 | 0.86 | 646 | 0.53 | 1039 |
| 90 | 0 | 0 | 0 | 0.111 | 0.99 | 561 | 0.57 | 968 |
| 100 | 0 | 0 | 0 | 0.111 | 1.15 | 482 | 0.62 | 896 |
| 110 | 0 | 0 | 0 | 0.111 | 1.35 | 411 | 0.67 | 823 |
| 120 | 0 | 0 | 0 | 0.111 | 1.59 | 350 | 0.74 | 751 |
| 130 | 0 | 0 | 0 | 0.111 | 1.85 | 301 | 0.82 | 679 |
| 167 | 0 | 0 | 0 | 0.111 | 2.85 | 195 | 1.29 | 430 |
| 212 | 0 | 0 | 0 | 0.111 | 3.91 | 142 | 2.34 | 237 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 0.914 | 5.72 | 1800 | 5.72 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 1.20 | 1043 | 0.97 | 1294 |
| 30 | 0 | 0 | 0 | 0.111 | 1.61 | 777 | 1.15 | 1088 |
| 40 | 0 | 0 | 0 | 0.111 | 1.80 | 695 | 1.23 | 1019 |
| 50 | 0 | 0 | 0 | 0.111 | 2.02 | 617 | 1.32 | 950 |
| 60 | 0 | 0 | 0 | 0.111 | 2.28 | 547 | 1.42 | 880 |
| 70 | 0 | 0 | 0 | 0.111 | 2.58 | 484 | 1.54 | 811 |
| 80 | 0 | 0 | 0 | 0.111 | 2.91 | 429 | 1.68 | 743 |
| 90 | 0 | 0 | 0 | 0.111 | 3.26 | 383 | 1.84 | 677 |
| 100 | 0 | 0 | 0 | 0.111 | 3.62 | 345 | 2.04 | 613 |
| 110 | 0 | 0 | 0 | 0.111 | 3.98 | 314 | 2.26 | 553 |
| 120 | 0 | 0 | 0 | 0.111 | 4.34 | 288 | 2.51 | 497 |
| 130 | 0 | 0 | 0 | 0.111 | 4.69 | 267 | 2.79 | 447 |
| 167 | 0 | 0 | 0 | 0.111 | 5.90 | 212 | 4.00 | 312 |
| 212 | 0 | 0 | 0 | 0.111 | 7.17 | 174 | 5.49 | 228 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 0.914 | 10.18 | 1800 | 10.18 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 3.79 | 586 | 2.51 | 885 |
| 30 | 0 | 0 | 0 | 0.111 | 5.03 | 441 | 3.18 | 697 |
| 40 | 0 | 0 | 0 | 0.111 | 5.47 | 406 | 3.47 | 640 |
| 50 | 0 | 0 | 0 | 0.111 | 5.91 | 376 | 3.79 | 587 |
| 60 | 0 | 0 | 0 | 0.111 | 6.35 | 350 | 4.13 | 538 |
| 70 | 0 | 0 | 0 | 0.111 | 6.77 | 328 | 4.50 | 493 |
| 80 | 0 | 0 | 0 | 0.111 | 7.19 | 309 | 4.89 | 454 |
| 90 | 0 | 0 | 0 | 0.111 | 7.59 | 293 | 5.29 | 420 |
| 100 | 0 | 0 | 0 | 0.111 | 7.99 | 278 | 5.70 | 389 |
| 110 | 0 | 0 | 0 | 0.111 | 8.37 | 266 | 6.12 | 363 |
| 120 | 0 | 0 | 0 | 0.111 | 8.74 | 254 | 6.53 | 340 |
| 130 | 0 | 0 | 0 | 0.111 | 9.11 | 244 | 6.93 | 321 |
| 167 | 0 | 0 | 0 | 0.111 | 10.37 | 215 | 8.36 | 266 |
| 212 | 0 | 0 | 0 | 0.111 | 11.75 | 190 | 9.93 | 224 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 0.914 | 15.93 | 1800 | 15.93 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 9.44 | 368 | 6.83 | 508 |
| 30 | 0 | 0 | 0 | 0.111 | 10.84 | 321 | 8.25 | 421 |
| 40 | 0 | 0 | 0 | 0.111 | 11.28 | 308 | 8.73 | 398 |
| 50 | 0 | 0 | 0 | 0.111 | 11.71 | 297 | 9.20 | 378 |
| 60 | 0 | 0 | 0 | 0.111 | 12.14 | 286 | 9.66 | 360 |
| 70 | 0 | 0 | 0 | 0.111 | 12.55 | 277 | 10.12 | 343 |
| 80 | 0 | 0 | 0 | 0.111 | 12.95 | 269 | 10.56 | 329 |
| 90 | 0 | 0 | 0 | 0.111 | 13.35 | 261 | 11.00 | 316 |
| 100 | 0 | 0 | 0 | 0.111 | 13.73 | 253 | 11.43 | 304 |
| 110 | 0 | 0 | 0 | 0.111 | 14.11 | 247 | 11.85 | 293 |
| 120 | 0 | 0 | 0 | 0.111 | 14.48 | 240 | 12.26 | 284 |
| 130 | 0 | 0 | 0 | 0.111 | 14.84 | 235 | 12.67 | 275 |
| 167 | 0 | 0 | 0 | 0.111 | 16.12 | 216 | 14.09 | 247 |
| 212 | 0 | 0 | 0 | 0.111 | 17.57 | 198 | 15.68 | 222 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 250.00 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 |
| 250.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 |
| 275.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 |
| 300.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 |
| 325.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 |
| 350.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-1 |
| 375.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-8 | 1-10 | 2-0 | 2-3 |
| 250.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 |
| 275.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-9 | 3-0 | 3-4 |
| 300.00 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-7 | 4-0 |
| 325.00 | 1-8 | 1-11 | 2-1 | 2-4 | 2-8 | 3-0 | 3-5 | 3-10 | 4-3 | 4-8 |
| 350.00 | 2-0 | 2-2 | 2-5 | 2-9 | 3-1 | 3-6 | 4-0 | 4-5 | 4-11 | 5-5 |
| 375.00 | 2-3 | 2-6 | 2-10 | 3-2 | 3-7 | 4-0 | 4-7 | 5-1 | 5-8 | 6-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 275.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 |
| 300.00 | 1-8 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 |
| 325.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 |
| 350.00 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-1 | 4-4 | 4-8 |
| 375.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 3-11 | 4-4 | 4-8 | 5-0 | 5-5 |
| 400.00 | 2-11 | 3-2 | 3-6 | 3-9 | 4-2 | 4-6 | 4-11 | 5-4 | 5-8 | 6-1 |
| 425.00 | 3-4 | 3-7 | 3-11 | 4-3 | 4-8 | 5-1 | 5-6 | 6-0 | 6-5 | 6-11 |
| 450.00 | 3-9 | 4-0 | 4-5 | 4-9 | 5-3 | 5-8 | 6-2 | 6-8 | 7-3 | 7-9 |
| 475.00 | 4-2 | 4-6 | 4-11 | 5-4 | 5-10 | 6-4 | 6-11 | 7-6 | 8-1 | 8-8 |
| 500.00 | 4-7 | 5-0 | 5-5 | 5-11 | 6-5 | 7-0 | 7-8 | 8-3 | 8-11 | 9-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 |
| 225.00 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 250.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 |
| 275.00 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 |
| 300.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-8 |
| 325.00 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 |
| 350.00 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 |
| 375.00 | 4-1 | 4-5 | 4-10 | 5-2 | 5-7 | 5-11 | 6-4 | 6-8 | 7-0 | 7-4 |
| 400.00 | 4-7 | 5-0 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-4 |
| 425.00 | 5-2 | 5-8 | 6-2 | 6-8 | 7-2 | 7-8 | 8-1 | 8-7 | 9-0 | 9-5 |
| 450.00 | 5-10 | 6-4 | 6-11 | 7-6 | 8-0 | 8-7 | 9-1 | 9-7 | 10-1 | 10-7 |
| 475.00 | 6-6 | 7-1 | 7-9 | 8-4 | 8-11 | 9-7 | 10-2 | 10-9 | 11-3 | 11-10 |
| 500.00 | 7-2 | 7-10 | 8-7 | 9-3 | 9-11 | 10-7 | 11-3 | 11-10 | 12-6 | 13-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 |
| 275.00 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 |
| 300.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 |
| 325.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-0 |
| 350.00 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 |
| 375.00 | 4-4 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 |
| 400.00 | 5-0 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-0 | 7-4 | 7-7 |
| 425.00 | 5-7 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 7-11 | 8-3 | 8-7 |
| 450.00 | 6-4 | 6-8 | 7-1 | 7-5 | 7-10 | 8-2 | 8-7 | 8-11 | 9-3 | 9-7 |
| 475.00 | 7-0 | 7-5 | 7-11 | 8-4 | 8-9 | 9-2 | 9-6 | 9-11 | 10-4 | 10-8 |
| 500.00 | 7-9 | 8-3 | 8-9 | 9-2 | 9-8 | 10-1 | 10-7 | 11-0 | 11-5 | 11-10 |
| 525.00 | 8-7 | 9-1 | 9-7 | 10-2 | 10-8 | 11-2 | 11-8 | 12-2 | 12-7 | 13-1 |
| 550.00 | 9-5 | 10-0 | 10-7 | 11-2 | 11-8 | 12-3 | 12-9 | 13-4 | 13-10 | 14-4 |
| 575.00 | 10-3 | 10-11 | 11-7 | 12-2 | 12-9 | 13-5 | 14-0 | 14-7 | 15-1 | 15-8 |
| 600.00 | 11-2 | 11-11 | 12-7 | 13-3 | 13-11 | 14-7 | 15-3 | 15-10 | 16-6 | 17-1 |
| 625.00 | 12-2 | 12-11 | 13-8 | 14-4 | 15-1 | 15-10 | 16-6 | 17-2 | 17-10 | 18-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 275.00 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 |
| 300.00 | 3-9 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 |
| 325.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 5-11 |
| 350.00 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 |
| 375.00 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-3 | 7-6 | 7-9 | 7-11 |
| 400.00 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 |
| 425.00 | 7-6 | 7-10 | 8-2 | 8-6 | 8-9 | 9-1 | 9-4 | 9-8 | 9-11 | 10-2 |
| 450.00 | 8-5 | 8-9 | 9-2 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 | 11-1 | 11-5 |
| 475.00 | 9-4 | 9-9 | 10-2 | 10-7 | 10-11 | 11-4 | 11-8 | 12-1 | 12-5 | 12-9 |
| 500.00 | 10-5 | 10-10 | 11-3 | 11-9 | 12-2 | 12-7 | 12-11 | 13-4 | 13-9 | 14-1 |
| 525.00 | 11-5 | 11-11 | 12-5 | 12-11 | 13-5 | 13-10 | 14-3 | 14-9 | 15-2 | 15-7 |
| 550.00 | 12-7 | 13-1 | 13-8 | 14-2 | 14-8 | 15-2 | 15-8 | 16-2 | 16-7 | 17-1 |
| 575.00 | 13-9 | 14-4 | 14-11 | 15-6 | 16-1 | 16-7 | 17-2 | 17-8 | 18-2 | 18-8 |
| 600.00 | 14-11 | 15-7 | 16-3 | 16-10 | 17-6 | 18-1 | 18-8 | 19-3 | 19-9 | 20-4 |
| 625.00 | 16-3 | 16-11 | 17-8 | 18-4 | 19-0 | 19-7 | 20-3 | 20-10 | 21-6 | 22-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 2.923 | 2.29 | 1600 | 2.29 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.29 | 479 | 0.18 | 788 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.58 | 240 | 0.25 | 561 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.74 | 188 | 0.29 | 485 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 0.91 | 152 | 0.34 | 410 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.08 | 128 | 0.41 | 339 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.24 | 112 | 0.51 | 274 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.39 | 100 | 0.64 | 218 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.53 | 91 | 0.79 | 176 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.66 | 83 | 0.95 | 146 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.79 | 78 | 1.12 | 124 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 1.90 | 73 | 1.27 | 109 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 2.01 | 69 | 1.42 | 98 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 2.38 | 58 | 1.88 | 74 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 2.77 | 50 | 2.34 | 59 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 2.923 | 9.21 | 1600 | 9.21 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 7.53 | 74 | 6.92 | 81 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 7.88 | 71 | 7.30 | 76 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 7.99 | 70 | 7.42 | 75 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.10 | 69 | 7.54 | 74 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.21 | 68 | 7.66 | 73 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.32 | 67 | 7.77 | 72 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.43 | 66 | 7.89 | 71 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.53 | 66 | 8.00 | 70 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.64 | 65 | 8.11 | 69 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.74 | 64 | 8.22 | 68 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.84 | 63 | 8.33 | 67 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 8.94 | 63 | 8.44 | 66 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 9.31 | 60 | 8.82 | 63 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 9.74 | 58 | 9.27 | 60 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 2.923 | 20.95 | 1600 | 20.95 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 19.35 | 66 | 18.83 | 67 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 19.67 | 65 | 19.15 | 66 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 19.77 | 64 | 19.26 | 66 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 19.88 | 64 | 19.36 | 66 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 19.98 | 64 | 19.47 | 65 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 20.08 | 63 | 19.57 | 65 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 20.18 | 63 | 19.68 | 65 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 20.29 | 63 | 19.78 | 64 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 20.39 | 62 | 19.89 | 64 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 20.49 | 62 | 19.99 | 64 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 20.59 | 62 | 20.09 | 63 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 20.69 | 62 | 20.19 | 63 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 21.05 | 60 | 20.57 | 62 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 21.49 | 59 | 21.01 | 61 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 2.923 | 37.85 | 1600 | 37.85 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 36.28 | 63 | 35.77 | 64 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 36.58 | 63 | 36.08 | 64 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 36.68 | 63 | 36.19 | 63 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 36.79 | 62 | 36.29 | 63 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 36.89 | 62 | 36.39 | 63 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 36.99 | 62 | 36.49 | 63 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 37.09 | 62 | 36.59 | 63 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 37.19 | 62 | 36.69 | 63 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 37.29 | 62 | 36.79 | 62 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 37.39 | 61 | 36.90 | 62 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 37.48 | 61 | 37.00 | 62 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 37.58 | 61 | 37.10 | 62 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 37.95 | 61 | 37.46 | 61 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 38.39 | 60 | 37.91 | 61 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 2.923 | 60.44 | 1600 | 60.44 | 1600* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.111 | 58.89 | 62 | 58.39 | 63 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.111 | 59.19 | 62 | 58.69 | 62 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.111 | 59.29 | 62 | 58.79 | 62 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.111 | 59.39 | 62 | 58.90 | 62 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.111 | 59.49 | 62 | 59.00 | 62 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.111 | 59.58 | 62 | 59.10 | 62 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.111 | 59.68 | 61 | 59.20 | 62 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.111 | 59.78 | 61 | 59.29 | 62 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.111 | 59.88 | 61 | 59.39 | 62 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.111 | 59.98 | 61 | 59.49 | 62 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.111 | 60.08 | 61 | 59.59 | 62 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.111 | 60.18 | 61 | 59.69 | 61 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.111 | 60.54 | 61 | 60.06 | 61 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.111 | 60.98 | 60 | 60.50 | 61 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 |
| 150.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-2 | 1-5 | 1-9 | 2-2 | 2-6 |
| 175.00 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-7 | 1-11 | 2-5 | 2-11 | 3-5 |
| 200.00 | 0-10 | 1-0 | 1-2 | 1-4 | 1-8 | 2-0 | 2-7 | 3-2 | 3-10 | 4-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-5 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 125.00 | 0-8 | 0-11 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 | 2-7 | 2-10 |
| 150.00 | 1-0 | 1-4 | 1-8 | 2-1 | 2-5 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 |
| 175.00 | 1-5 | 1-9 | 2-3 | 2-10 | 3-4 | 3-10 | 4-3 | 4-8 | 5-1 | 5-6 |
| 200.00 | 1-10 | 2-4 | 3-0 | 3-8 | 4-4 | 5-0 | 5-7 | 6-2 | 6-8 | 7-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 |
| 125.00 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 |
| 150.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 |
| 175.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 |
| 200.00 | 7-2 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 |
| 225.00 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 |
| 250.00 | 11-3 | 11-5 | 11-7 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 |
| 125.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 |
| 150.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 |
| 175.00 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 200.00 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 |
| 225.00 | 9-10 | 10-0 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-10 | 10-11 | 11-1 |
| 250.00 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.38

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5-0 |
| 175.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 |
| 200.00 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 |
| 225.00 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 |
| 250.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 |
| 275.00 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 |
| 300.00 | 19-1 | 19-2 | 19-3 | 19-4 | 19-6 | 19-7 | 19-8 | 19-9 | 19-11 | 20-0 |
| 325.00 | 22-4 | 22-6 | 22-7 | 22-9 | 22-10 | 23-0 | 23-1 | 23-3 | 23-4 | 23-6 |
| 350.00 | 26-0 | 26-1 | 26-3 | 26-5 | 26-7 | 26-8 | 26-10 | 27-0 | 27-1 | 27-3 |
| 375.00 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-10 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 |
| 175.00 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 |
| 200.00 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 |
| 225.00 | 11-0 | 11-0 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 |
| 250.00 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-2 |
| 275.00 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 |
| 300.00 | 19-7 | 19-8 | 19-9 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-5 | 20-6 |
| 325.00 | 23-0 | 23-1 | 23-3 | 23-4 | 23-6 | 23-7 | 23-9 | 23-10 | 23-11 | 24-1 |
| 350.00 | 26-8 | 26-10 | 27-0 | 27-1 | 27-3 | 27-5 | 27-6 | 27-8 | 27-10 | 27-11 |
| 375.00 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 | 31-6 | 31-8 | 31-10 | 32-0 | 32-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-1 | 9-2 |
| 225.00 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-7 | 11-7 |
| 250.00 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 |
| 275.00 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 |
| 300.00 | 20-2 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 |
| 325.00 | 23-8 | 23-9 | 23-10 | 23-10 | 23-11 | 24-0 | 24-1 | 24-2 | 24-2 | 24-3 |
| 350.00 | 27-6 | 27-7 | 27-8 | 27-9 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 |
| 375.00 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 | 32-4 | 32-5 |
| 400.00 | 36-0 | 36-1 | 36-2 | 36-3 | 36-5 | 36-6 | 36-7 | 36-8 | 36-10 | 36-11 |
| 425.00 | 40-8 | 40-9 | 40-11 | 41-0 | 41-2 | 41-3 | 41-4 | 41-6 | 41-7 | 41-9 |
| 450.00 | 45-8 | 45-10 | 45-11 | 46-1 | 46-2 | 46-4 | 46-5 | 46-7 | 46-8 | 46-10 |
| 475.00 | 50-11 | 51-1 | 51-3 | 51-5 | 51-7 | 51-8 | 51-10 | 52-0 | 52-1 | 52-3 |
| 500.00 | 56-7 | 56-9 | 56-11 | 57-1 | 57-2 | 57-4 | 57-6 | 57-8 | 57-10 | 58-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-1 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 |
| 225.00 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 |
| 250.00 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 |
| 275.00 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 |
| 300.00 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-10 | 20-10 | 20-11 |
| 325.00 | 24-0 | 24-1 | 24-2 | 24-2 | 24-3 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 |
| 350.00 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 | 28-5 | 28-6 | 28-7 |
| 375.00 | 32-0 | 32-1 | 32-2 | 32-3 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 |
| 400.00 | 36-6 | 36-7 | 36-8 | 36-9 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-5 |
| 425.00 | 41-3 | 41-4 | 41-6 | 41-7 | 41-8 | 41-10 | 41-11 | 42-0 | 42-2 | 42-3 |
| 450.00 | 46-4 | 46-5 | 46-7 | 46-8 | 46-10 | 46-11 | 47-1 | 47-2 | 47-4 | 47-6 |
| 475.00 | 51-8 | 51-10 | 52-0 | 52-1 | 52-3 | 52-5 | 52-6 | 52-8 | 52-10 | 53-0 |
| 500.00 | 57-4 | 57-6 | 57-8 | 57-10 | 58-0 | 58-2 | 58-4 | 58-6 | 58-8 | 58-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 |
| 275.00 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 |
| 300.00 | 20-10 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-2 | 21-2 |
| 325.00 | 24-6 | 24-7 | 24-7 | 24-8 | 24-8 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 |
| 350.00 | 28-5 | 28-6 | 28-7 | 28-7 | 28-8 | 28-8 | 28-9 | 28-9 | 28-10 | 28-11 |
| 375.00 | 32-8 | 32-9 | 32-10 | 32-10 | 32-11 | 33-0 | 33-0 | 33-1 | 33-2 | 33-2 |
| 400.00 | 37-3 | 37-4 | 37-5 | 37-5 | 37-6 | 37-7 | 37-8 | 37-8 | 37-9 | 37-10 |
| 425.00 | 42-2 | 42-2 | 42-3 | 42-4 | 42-5 | 42-6 | 42-7 | 42-8 | 42-8 | 42-9 |
| 450.00 | 47-4 | 47-5 | 47-6 | 47-7 | 47-7 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 |
| 475.00 | 52-9 | 52-11 | 53-0 | 53-1 | 53-2 | 53-3 | 53-4 | 53-5 | 53-6 | 53-7 |
| 500.00 | 58-7 | 58-8 | 58-10 | 58-11 | 59-0 | 59-1 | 59-2 | 59-4 | 59-5 | 59-6 |
| 525.00 | 64-9 | 64-10 | 64-11 | 65-1 | 65-2 | 65-3 | 65-5 | 65-6 | 65-7 | 65-9 |
| 550.00 | 71-2 | 71-3 | 71-5 | 71-6 | 71-8 | 71-9 | 71-11 | 72-0 | 72-2 | 72-3 |
| 575.00 | 77-11 | 78-1 | 78-2 | 78-4 | 78-6 | 78-7 | 78-9 | 78-10 | 79-0 | 79-2 |
| 600.00 | 85-0 | 85-2 | 85-4 | 85-6 | 85-7 | 85-9 | 85-11 | 86-1 | 86-3 | 86-4 |
| 625.00 | 92-6 | 92-8 | 92-9 | 92-11 | 93-1 | 93-3 | 93-5 | 93-7 | 93-9 | 93-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 | 14-9 |
| 275.00 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 |
| 300.00 | 21-0 | 21-1 | 21-1 | 21-2 | 21-2 | 21-2 | 21-3 | 21-3 | 21-4 | 21-4 |
| 325.00 | 24-8 | 24-9 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 | 25-0 | 25-0 | 25-1 |
| 350.00 | 28-8 | 28-9 | 28-9 | 28-10 | 28-11 | 28-11 | 29-0 | 29-0 | 29-1 | 29-1 |
| 375.00 | 33-0 | 33-0 | 33-1 | 33-2 | 33-2 | 33-3 | 33-4 | 33-4 | 33-5 | 33-6 |
| 400.00 | 37-7 | 37-8 | 37-8 | 37-9 | 37-10 | 37-11 | 37-11 | 38-0 | 38-1 | 38-2 |
| 425.00 | 42-6 | 42-7 | 42-7 | 42-8 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-1 |
| 450.00 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 | 48-1 | 48-2 | 48-3 | 48-4 | 48-5 |
| 475.00 | 53-3 | 53-4 | 53-5 | 53-6 | 53-7 | 53-8 | 53-9 | 53-10 | 53-11 | 54-0 |
| 500.00 | 59-1 | 59-2 | 59-3 | 59-5 | 59-6 | 59-7 | 59-8 | 59-9 | 59-11 | 60-0 |
| 525.00 | 65-3 | 65-4 | 65-6 | 65-7 | 65-8 | 65-10 | 65-11 | 66-0 | 66-2 | 66-3 |
| 550.00 | 71-9 | 71-11 | 72-0 | 72-2 | 72-3 | 72-4 | 72-6 | 72-7 | 72-9 | 72-10 |
| 575.00 | 78-7 | 78-9 | 78-10 | 79-0 | 79-2 | 79-3 | 79-5 | 79-6 | 79-8 | 79-10 |
| 600.00 | 85-9 | 85-11 | 86-1 | 86-2 | 86-4 | 86-6 | 86-8 | 86-9 | 86-11 | 87-1 |
| 625.00 | 93-3 | 93-5 | 93-7 | 93-9 | 93-11 | 94-1 | 94-3 | 94-5 | 94-6 | 94-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 2.923 | 2.03 | 1800 | 2.03 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.15 | 906 | 0.12 | 1203 |
| 30 | 0 | 0 | 0 | 0.111 | 0.22 | 617 | 0.14 | 987 |
| 40 | 0 | 0 | 0 | 0.111 | 0.26 | 524 | 0.15 | 914 |
| 50 | 0 | 0 | 0 | 0.111 | 0.32 | 433 | 0.17 | 839 |
| 60 | 0 | 0 | 0 | 0.111 | 0.40 | 347 | 0.18 | 764 |
| 70 | 0 | 0 | 0 | 0.111 | 0.51 | 271 | 0.20 | 689 |
| 80 | 0 | 0 | 0 | 0.111 | 0.66 | 211 | 0.23 | 612 |
| 90 | 0 | 0 | 0 | 0.111 | 0.83 | 168 | 0.26 | 536 |
| 100 | 0 | 0 | 0 | 0.111 | 1.00 | 139 | 0.30 | 461 |
| 110 | 0 | 0 | 0 | 0.111 | 1.17 | 119 | 0.36 | 387 |
| 120 | 0 | 0 | 0 | 0.111 | 1.32 | 105 | 0.44 | 317 |
| 130 | 0 | 0 | 0 | 0.111 | 1.47 | 95 | 0.54 | 255 |
| 167 | 0 | 0 | 0 | 0.111 | 1.93 | 72 | 1.12 | 124 |
| 212 | 0 | 0 | 0 | 0.111 | 2.38 | 58 | 1.74 | 80 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 2.923 | 8.17 | 1800 | 8.17 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 5.94 | 94 | 4.98 | 112 |
| 30 | 0 | 0 | 0 | 0.111 | 6.37 | 87 | 5.48 | 102 |
| 40 | 0 | 0 | 0 | 0.111 | 6.51 | 86 | 5.63 | 99 |
| 50 | 0 | 0 | 0 | 0.111 | 6.65 | 84 | 5.79 | 96 |
| 60 | 0 | 0 | 0 | 0.111 | 6.78 | 82 | 5.94 | 94 |
| 70 | 0 | 0 | 0 | 0.111 | 6.91 | 81 | 6.08 | 92 |
| 80 | 0 | 0 | 0 | 0.111 | 7.04 | 79 | 6.22 | 90 |
| 90 | 0 | 0 | 0 | 0.111 | 7.16 | 78 | 6.37 | 88 |
| 100 | 0 | 0 | 0 | 0.111 | 7.29 | 77 | 6.50 | 86 |
| 110 | 0 | 0 | 0 | 0.111 | 7.41 | 75 | 6.64 | 84 |
| 120 | 0 | 0 | 0 | 0.111 | 7.53 | 74 | 6.77 | 82 |
| 130 | 0 | 0 | 0 | 0.111 | 7.64 | 73 | 6.90 | 81 |
| 167 | 0 | 0 | 0 | 0.111 | 8.07 | 69 | 7.36 | 76 |
| 212 | 0 | 0 | 0 | 0.111 | 8.55 | 65 | 7.89 | 71 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 2.923 | 18.55 | 1800 | 18.55 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 16.49 | 77 | 15.72 | 80 |
| 30 | 0 | 0 | 0 | 0.111 | 16.86 | 75 | 16.11 | 78 |
| 40 | 0 | 0 | 0 | 0.111 | 16.98 | 74 | 16.23 | 78 |
| 50 | 0 | 0 | 0 | 0.111 | 17.10 | 74 | 16.36 | 77 |
| 60 | 0 | 0 | 0 | 0.111 | 17.22 | 73 | 16.48 | 77 |
| 70 | 0 | 0 | 0 | 0.111 | 17.33 | 73 | 16.60 | 76 |
| 80 | 0 | 0 | 0 | 0.111 | 17.45 | 73 | 16.73 | 76 |
| 90 | 0 | 0 | 0 | 0.111 | 17.57 | 72 | 16.85 | 75 |
| 100 | 0 | 0 | 0 | 0.111 | 17.68 | 72 | 16.97 | 75 |
| 110 | 0 | 0 | 0 | 0.111 | 17.80 | 71 | 17.09 | 74 |
| 120 | 0 | 0 | 0 | 0.111 | 17.91 | 71 | 17.21 | 74 |
| 130 | 0 | 0 | 0 | 0.111 | 18.03 | 70 | 17.32 | 73 |
| 167 | 0 | 0 | 0 | 0.111 | 18.44 | 69 | 17.75 | 71 |
| 212 | 0 | 0 | 0 | 0.111 | 18.93 | 67 | 18.26 | 69 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 2.923 | 33.38 | 1800 | 33.38 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 31.38 | 72 | 30.66 | 74 |
| 30 | 0 | 0 | 0 | 0.111 | 31.73 | 72 | 31.01 | 73 |
| 40 | 0 | 0 | 0 | 0.111 | 31.84 | 71 | 31.13 | 73 |
| 50 | 0 | 0 | 0 | 0.111 | 31.96 | 71 | 31.25 | 73 |
| 60 | 0 | 0 | 0 | 0.111 | 32.07 | 71 | 31.37 | 73 |
| 70 | 0 | 0 | 0 | 0.111 | 32.19 | 71 | 31.48 | 72 |
| 80 | 0 | 0 | 0 | 0.111 | 32.30 | 71 | 31.60 | 72 |
| 90 | 0 | 0 | 0 | 0.111 | 32.41 | 70 | 31.72 | 72 |
| 100 | 0 | 0 | 0 | 0.111 | 32.53 | 70 | 31.83 | 72 |
| 110 | 0 | 0 | 0 | 0.111 | 32.64 | 70 | 31.95 | 71 |
| 120 | 0 | 0 | 0 | 0.111 | 32.75 | 70 | 32.06 | 71 |
| 130 | 0 | 0 | 0 | 0.111 | 32.87 | 69 | 32.18 | 71 |
| 167 | 0 | 0 | 0 | 0.111 | 33.28 | 69 | 32.60 | 70 |
| 212 | 0 | 0 | 0 | 0.111 | 33.77 | 68 | 33.10 | 69 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 2.923 | 53.04 | 1800 | 53.04 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 51.06 | 71 | 50.36 | 72 |
| 30 | 0 | 0 | 0 | 0.111 | 51.40 | 70 | 50.70 | 71 |
| 40 | 0 | 0 | 0 | 0.111 | 51.51 | 70 | 50.82 | 71 |
| 50 | 0 | 0 | 0 | 0.111 | 51.62 | 70 | 50.93 | 71 |
| 60 | 0 | 0 | 0 | 0.111 | 51.74 | 70 | 51.05 | 71 |
| 70 | 0 | 0 | 0 | 0.111 | 51.85 | 70 | 51.16 | 71 |
| 80 | 0 | 0 | 0 | 0.111 | 51.96 | 70 | 51.27 | 71 |
| 90 | 0 | 0 | 0 | 0.111 | 52.07 | 70 | 51.39 | 70 |
| 100 | 0 | 0 | 0 | 0.111 | 52.19 | 69 | 51.50 | 70 |
| 110 | 0 | 0 | 0 | 0.111 | 52.30 | 69 | 51.61 | 70 |
| 120 | 0 | 0 | 0 | 0.111 | 52.41 | 69 | 51.73 | 70 |
| 130 | 0 | 0 | 0 | 0.111 | 52.52 | 69 | 51.84 | 70 |
| 167 | 0 | 0 | 0 | 0.111 | 52.93 | 68 | 52.25 | 69 |
| 212 | 0 | 0 | 0 | 0.111 | 53.43 | 68 | 52.76 | 69 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 | 1-0 | 1-2 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-10 | 1-0 | 1-4 | 1-7 | 1-10 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 | 1-6 | 1-10 | 2-3 | 2-8 |
| 175.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 | 2-0 | 2-6 | 3-1 | 3-7 |
| 200.00 | 0-9 | 0-11 | 1-1 | 1-3 | 1-7 | 2-1 | 2-8 | 3-4 | 4-0 | 4-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 |
| 125.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 |
| 150.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 175.00 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 |
| 200.00 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 |
| 225.00 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-11 | 8-1 | 8-3 | 8-5 |
| 250.00 | 8-4 | 8-7 | 8-10 | 9-1 | 9-3 | 9-6 | 9-9 | 9-11 | 10-2 | 10-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 |
| 125.00 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 |
| 150.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 |
| 175.00 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 |
| 200.00 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 |
| 225.00 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 |
| 250.00 | 9-9 | 10-0 | 10-2 | 10-5 | 10-7 | 10-10 | 11-0 | 11-2 | 11-5 | 11-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 |
| 175.00 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 |
| 200.00 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 |
| 225.00 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 |
| 250.00 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 |
| 275.00 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-4 |
| 300.00 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 17-0 | 17-1 |
| 325.00 | 18-9 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 | 19-8 | 19-9 | 19-11 | 20-1 |
| 350.00 | 21-9 | 21-11 | 22-1 | 22-4 | 22-6 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 |
| 375.00 | 25-0 | 25-3 | 25-5 | 25-7 | 25-10 | 26-0 | 26-2 | 26-5 | 26-7 | 26-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 |
| 175.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 |
| 200.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 |
| 225.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 |
| 250.00 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 |
| 275.00 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 |
| 300.00 | 16-9 | 16-10 | 17-0 | 17-1 | 17-3 | 17-4 | 17-5 | 17-7 | 17-8 | 17-10 |
| 325.00 | 19-8 | 19-10 | 19-11 | 20-1 | 20-3 | 20-4 | 20-6 | 20-8 | 20-9 | 20-11 |
| 350.00 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 | 23-9 | 23-11 | 24-1 | 24-3 |
| 375.00 | 26-3 | 26-5 | 26-7 | 26-9 | 27-0 | 27-2 | 27-4 | 27-6 | 27-8 | 27-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 |
| 225.00 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 |
| 250.00 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 |
| 275.00 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-10 | 14-10 | 14-11 | 15-0 | 15-0 |
| 300.00 | 17-4 | 17-5 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 |
| 325.00 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 20-11 | 21-0 |
| 350.00 | 23-7 | 23-8 | 23-9 | 23-11 | 24-0 | 24-1 | 24-2 | 24-3 | 24-4 | 24-5 |
| 375.00 | 27-2 | 27-3 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 28-1 |
| 400.00 | 30-11 | 31-0 | 31-2 | 31-3 | 31-4 | 31-6 | 31-7 | 31-9 | 31-10 | 31-11 |
| 425.00 | 34-11 | 35-1 | 35-2 | 35-4 | 35-5 | 35-7 | 35-9 | 35-10 | 36-0 | 36-1 |
| 450.00 | 39-2 | 39-4 | 39-6 | 39-8 | 39-9 | 39-11 | 40-1 | 40-3 | 40-5 | 40-6 |
| 475.00 | 43-8 | 43-11 | 44-1 | 44-3 | 44-5 | 44-7 | 44-9 | 44-11 | 45-0 | 45-2 |
| 500.00 | 48-6 | 48-8 | 48-10 | 49-1 | 49-3 | 49-5 | 49-7 | 49-9 | 50-0 | 50-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 |
| 225.00 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 |
| 250.00 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 |
| 275.00 | 14-11 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-4 | 15-4 |
| 300.00 | 17-9 | 17-9 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-2 | 18-3 | 18-3 |
| 325.00 | 20-10 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 |
| 350.00 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 |
| 375.00 | 27-9 | 27-10 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 | 28-6 | 28-7 | 28-8 |
| 400.00 | 31-7 | 31-9 | 31-10 | 31-11 | 32-1 | 32-2 | 32-4 | 32-5 | 32-6 | 32-8 |
| 425.00 | 35-9 | 35-10 | 36-0 | 36-1 | 36-3 | 36-5 | 36-6 | 36-8 | 36-9 | 36-11 |
| 450.00 | 40-1 | 40-3 | 40-5 | 40-6 | 40-8 | 40-10 | 41-0 | 41-1 | 41-3 | 41-5 |
| 475.00 | 44-9 | 44-11 | 45-1 | 45-3 | 45-5 | 45-7 | 45-9 | 45-10 | 46-0 | 46-2 |
| 500.00 | 49-7 | 49-10 | 50-0 | 50-2 | 50-4 | 50-6 | 50-9 | 50-11 | 51-1 | 51-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-6 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 |
| 275.00 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-6 |
| 300.00 | 18-1 | 18-1 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-5 |
| 325.00 | 21-3 | 21-3 | 21-4 | 21-4 | 21-5 | 21-5 | 21-6 | 21-6 | 21-7 | 21-8 |
| 350.00 | 24-7 | 24-8 | 24-9 | 24-9 | 24-10 | 24-11 | 24-11 | 25-0 | 25-1 | 25-1 |
| 375.00 | 28-3 | 28-4 | 28-5 | 28-6 | 28-7 | 28-7 | 28-8 | 28-9 | 28-10 | 28-10 |
| 400.00 | 32-3 | 32-4 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-10 |
| 425.00 | 36-5 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 |
| 450.00 | 40-10 | 41-0 | 41-1 | 41-2 | 41-3 | 41-4 | 41-5 | 41-6 | 41-7 | 41-8 |
| 475.00 | 45-7 | 45-8 | 45-10 | 45-11 | 46-0 | 46-1 | 46-3 | 46-4 | 46-5 | 46-6 |
| 500.00 | 50-7 | 50-8 | 50-10 | 50-11 | 51-1 | 51-2 | 51-3 | 51-5 | 51-6 | 51-7 |
| 525.00 | 55-10 | 56-0 | 56-1 | 56-3 | 56-4 | 56-6 | 56-7 | 56-9 | 56-10 | 57-0 |
| 550.00 | 61-5 | 61-6 | 61-8 | 61-10 | 61-11 | 62-1 | 62-3 | 62-4 | 62-6 | 62-8 |
| 575.00 | 67-2 | 67-4 | 67-6 | 67-8 | 67-10 | 67-11 | 68-1 | 68-3 | 68-5 | 68-7 |
| 600.00 | 73-3 | 73-5 | 73-7 | 73-9 | 73-11 | 74-1 | 74-3 | 74-5 | 74-7 | 74-9 |
| 625.00 | 79-8 | 79-10 | 80-0 | 80-2 | 80-4 | 80-7 | 80-9 | 80-11 | 81-1 | 81-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 |
| 275.00 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 |
| 300.00 | 18-4 | 18-4 | 18-5 | 18-5 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-8 |
| 325.00 | 21-6 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 |
| 350.00 | 24-11 | 25-0 | 25-1 | 25-1 | 25-2 | 25-3 | 25-3 | 25-4 | 25-5 | 25-5 |
| 375.00 | 28-8 | 28-9 | 28-10 | 28-10 | 28-11 | 29-0 | 29-1 | 29-1 | 29-2 | 29-3 |
| 400.00 | 32-8 | 32-9 | 32-10 | 32-11 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 |
| 425.00 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 | 37-7 | 37-8 |
| 450.00 | 41-5 | 41-6 | 41-7 | 41-8 | 41-10 | 41-11 | 42-0 | 42-1 | 42-2 | 42-3 |
| 475.00 | 46-3 | 46-4 | 46-5 | 46-6 | 46-8 | 46-9 | 46-10 | 46-11 | 47-0 | 47-2 |
| 500.00 | 51-3 | 51-5 | 51-6 | 51-7 | 51-9 | 51-10 | 52-0 | 52-1 | 52-2 | 52-4 |
| 525.00 | 56-7 | 56-9 | 56-10 | 57-0 | 57-1 | 57-3 | 57-4 | 57-6 | 57-7 | 57-9 |
| 550.00 | 62-3 | 62-4 | 62-6 | 62-8 | 62-9 | 62-11 | 63-1 | 63-2 | 63-4 | 63-6 |
| 575.00 | 68-1 | 68-3 | 68-5 | 68-7 | 68-9 | 68-11 | 69-0 | 69-2 | 69-4 | 69-6 |
| 600.00 | 74-4 | 74-6 | 74-8 | 74-9 | 74-11 | 75-1 | 75-3 | 75-5 | 75-7 | 75-9 |
| 625.00 | 80-9 | 80-11 | 81-1 | 81-3 | 81-6 | 81-8 | 81-10 | 82-0 | 82-2 | 82-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 0.44 | 911 | 0.33 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 0.12 | 1167 | 0.10 | 1392 |
| 30 | 0 | 0 | 0 | 0.111 | 0.13 | 1069 | 0.10 | 1324 |
| 40 | 0 | 0 | 0 | 0.111 | 0.14 | 972 | 0.11 | 1255 |
| 50 | 0 | 0 | 0 | 0.111 | 0.16 | 875 | 0.12 | 1185 |
| 60 | 0 | 0 | 0 | 0.111 | 0.18 | 778 | 0.12 | 1114 |
| 70 | 0 | 0 | 0 | 0.111 | 0.20 | 683 | 0.13 | 1042 |
| 80 | 0 | 0 | 0 | 0.111 | 0.24 | 588 | 0.14 | 969 |
| 90 | 0 | 0 | 0 | 0.111 | 0.28 | 495 | 0.15 | 895 |
| 100 | 0 | 0 | 0 | 0.111 | 0.34 | 405 | 0.17 | 821 |
| 110 | 0 | 0 | 0 | 0.111 | 0.43 | 322 | 0.19 | 745 |
| 120 | 0 | 0 | 0 | 0.111 | 0.55 | 250 | 0.21 | 669 |
| 130 | 0 | 0 | 0 | 0.111 | 0.71 | 195 | 0.23 | 593 |
| 167 | 0 | 0 | 0 | 0.111 | 1.32 | 105 | 0.43 | 321 |
| 212 | 0 | 0 | 0 | 0.111 | 1.91 | 73 | 1.08 | 129 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 1.64 | 969 | 1.32 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 0.49 | 1131 | 0.41 | 1347 |
| 30 | 0 | 0 | 0 | 0.111 | 0.54 | 1035 | 0.43 | 1279 |
| 40 | 0 | 0 | 0 | 0.111 | 0.59 | 941 | 0.46 | 1210 |
| 50 | 0 | 0 | 0 | 0.111 | 0.66 | 847 | 0.49 | 1141 |
| 60 | 0 | 0 | 0 | 0.111 | 0.74 | 755 | 0.52 | 1070 |
| 70 | 0 | 0 | 0 | 0.111 | 0.83 | 665 | 0.56 | 998 |
| 80 | 0 | 0 | 0 | 0.111 | 0.96 | 580 | 0.60 | 927 |
| 90 | 0 | 0 | 0 | 0.111 | 1.11 | 499 | 0.65 | 854 |
| 100 | 0 | 0 | 0 | 0.111 | 1.30 | 426 | 0.71 | 782 |
| 110 | 0 | 0 | 0 | 0.111 | 1.53 | 363 | 0.78 | 709 |
| 120 | 0 | 0 | 0 | 0.111 | 1.79 | 311 | 0.87 | 638 |
| 130 | 0 | 0 | 0 | 0.111 | 2.06 | 270 | 0.98 | 568 |
| 167 | 0 | 0 | 0 | 0.111 | 3.05 | 182 | 1.61 | 345 |
| 212 | 0 | 0 | 0 | 0.111 | 4.07 | 137 | 2.75 | 202 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 3.46 | 1032 | 2.97 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 1.17 | 1070 | 0.98 | 1274 |
| 30 | 0 | 0 | 0 | 0.111 | 1.28 | 979 | 1.04 | 1206 |
| 40 | 0 | 0 | 0 | 0.111 | 1.40 | 889 | 1.10 | 1137 |
| 50 | 0 | 0 | 0 | 0.111 | 1.56 | 802 | 1.17 | 1068 |
| 60 | 0 | 0 | 0 | 0.111 | 1.74 | 718 | 1.25 | 999 |
| 70 | 0 | 0 | 0 | 0.111 | 1.95 | 640 | 1.34 | 929 |
| 80 | 0 | 0 | 0 | 0.111 | 2.20 | 567 | 1.45 | 860 |
| 90 | 0 | 0 | 0 | 0.111 | 2.49 | 501 | 1.58 | 791 |
| 100 | 0 | 0 | 0 | 0.111 | 2.81 | 444 | 1.73 | 724 |
| 110 | 0 | 0 | 0 | 0.111 | 3.15 | 396 | 1.90 | 658 |
| 120 | 0 | 0 | 0 | 0.111 | 3.51 | 356 | 2.10 | 595 |
| 130 | 0 | 0 | 0 | 0.111 | 3.87 | 322 | 2.33 | 536 |
| 167 | 0 | 0 | 0 | 0.111 | 5.17 | 242 | 3.43 | 365 |
| 212 | 0 | 0 | 0 | 0.111 | 6.54 | 191 | 4.94 | 253 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 5.84 | 1087 | 5.29 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 2.25 | 986 | 1.89 | 1173 |
| 30 | 0 | 0 | 0 | 0.111 | 2.46 | 901 | 2.01 | 1106 |
| 40 | 0 | 0 | 0 | 0.111 | 2.71 | 821 | 2.14 | 1039 |
| 50 | 0 | 0 | 0 | 0.111 | 2.98 | 744 | 2.28 | 972 |
| 60 | 0 | 0 | 0 | 0.111 | 3.30 | 673 | 2.45 | 906 |
| 70 | 0 | 0 | 0 | 0.111 | 3.65 | 608 | 2.64 | 841 |
| 80 | 0 | 0 | 0 | 0.111 | 4.03 | 550 | 2.86 | 777 |
| 90 | 0 | 0 | 0 | 0.111 | 4.44 | 500 | 3.10 | 716 |
| 100 | 0 | 0 | 0 | 0.111 | 4.87 | 456 | 3.38 | 658 |
| 110 | 0 | 0 | 0 | 0.111 | 5.31 | 418 | 3.68 | 603 |
| 120 | 0 | 0 | 0 | 0.111 | 5.75 | 387 | 4.02 | 552 |
| 130 | 0 | 0 | 0 | 0.111 | 6.18 | 359 | 4.38 | 507 |
| 167 | 0 | 0 | 0 | 0.111 | 7.72 | 288 | 5.86 | 379 |
| 212 | 0 | 0 | 0 | 0.111 | 9.40 | 237 | 7.68 | 290 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 8.79 | 1128 | 8.27 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 3.93 | 884 | 3.31 | 1050 |
| 30 | 0 | 0 | 0 | 0.111 | 4.28 | 811 | 3.52 | 986 |
| 40 | 0 | 0 | 0 | 0.111 | 4.67 | 743 | 3.76 | 923 |
| 50 | 0 | 0 | 0 | 0.111 | 5.09 | 681 | 4.02 | 862 |
| 60 | 0 | 0 | 0 | 0.111 | 5.55 | 625 | 4.32 | 803 |
| 70 | 0 | 0 | 0 | 0.111 | 6.03 | 576 | 4.65 | 746 |
| 80 | 0 | 0 | 0 | 0.111 | 6.52 | 532 | 5.01 | 693 |
| 90 | 0 | 0 | 0 | 0.111 | 7.03 | 494 | 5.40 | 643 |
| 100 | 0 | 0 | 0 | 0.111 | 7.54 | 460 | 5.81 | 597 |
| 110 | 0 | 0 | 0 | 0.111 | 8.05 | 431 | 6.25 | 555 |
| 120 | 0 | 0 | 0 | 0.111 | 8.55 | 406 | 6.70 | 518 |
| 130 | 0 | 0 | 0 | 0.111 | 9.05 | 384 | 7.17 | 484 |
| 167 | 0 | 0 | 0 | 0.111 | 10.79 | 322 | 8.93 | 389 |
| 212 | 0 | 0 | 0 | 0.111 | 12.71 | 274 | 10.98 | 317 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 | 0-9 | 1-0 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-9 | 0-10 | 1-1 | 1-4 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 | 1-6 |
| 225.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 |
| 250.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.54

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 225.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 275.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 |
| 300.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 |
| 325.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-3 |
| 350.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 |
| 375.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 3-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 |
| 225.00 | 0-8 | 0-9 | 0-9 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 |
| 300.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-6 | 2-10 | 3-2 |
| 325.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-4 | 2-7 | 2-11 | 3-4 | 3-8 |
| 350.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-8 | 3-0 | 3-5 | 3-10 | 4-4 |
| 375.00 | 1-10 | 2-0 | 2-2 | 2-5 | 2-9 | 3-1 | 3-5 | 3-11 | 4-5 | 4-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 |
| 275.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 300.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 |
| 325.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 350.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 |
| 375.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 |
| 400.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-5 | 3-8 |
| 425.00 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 |
| 450.00 | 2-5 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-8 |
| 475.00 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-9 | 4-0 | 4-4 | 4-9 | 5-2 |
| 500.00 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 | 5-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 |
| 300.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 |
| 325.00 | 1-6 | 1-8 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 | 3-6 |
| 350.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 |
| 375.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 | 4-8 |
| 400.00 | 2-3 | 2-6 | 2-8 | 3-0 | 3-4 | 3-8 | 4-0 | 4-5 | 4-10 | 5-4 |
| 425.00 | 2-7 | 2-9 | 3-1 | 3-4 | 3-9 | 4-1 | 4-7 | 5-0 | 5-6 | 6-0 |
| 450.00 | 2-10 | 3-1 | 3-5 | 3-9 | 4-2 | 4-7 | 5-1 | 5-8 | 6-2 | 6-9 |
| 475.00 | 3-2 | 3-6 | 3-10 | 4-2 | 4-8 | 5-2 | 5-8 | 6-3 | 6-10 | 7-6 |
| 500.00 | 3-6 | 3-10 | 4-3 | 4-8 | 5-2 | 5-8 | 6-4 | 6-11 | 7-7 | 8-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS



OH814.56

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 300.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 325.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-8 |
| 350.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 |
| 375.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 |
| 400.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-9 | 4-0 |
| 425.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 | 4-6 |
| 450.00 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 5-1 |
| 475.00 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-10 | 5-3 | 5-8 |
| 500.00 | 3-4 | 3-6 | 3-9 | 4-0 | 4-4 | 4-8 | 5-0 | 5-5 | 5-10 | 6-3 |
| 525.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-9 | 5-2 | 5-6 | 5-11 | 6-5 | 6-11 |
| 550.00 | 4-0 | 4-3 | 4-7 | 4-10 | 5-3 | 5-7 | 6-1 | 6-6 | 7-0 | 7-7 |
| 575.00 | 4-4 | 4-8 | 5-0 | 5-4 | 5-9 | 6-2 | 6-7 | 7-2 | 7-8 | 8-3 |
| 600.00 | 4-9 | 5-1 | 5-5 | 5-10 | 6-3 | 6-8 | 7-3 | 7-9 | 8-4 | 9-0 |
| 625.00 | 5-2 | 5-6 | 5-10 | 6-3 | 6-9 | 7-3 | 7-10 | 8-5 | 9-1 | 9-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 275.00 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 |
| 300.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 |
| 325.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 |
| 350.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 |
| 375.00 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-3 | 4-6 |
| 400.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 |
| 425.00 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 | 4-9 | 5-1 | 5-5 | 5-10 |
| 450.00 | 3-2 | 3-6 | 3-9 | 4-2 | 4-6 | 4-11 | 5-3 | 5-8 | 6-1 | 6-6 |
| 475.00 | 3-7 | 3-10 | 4-3 | 4-7 | 5-0 | 5-5 | 5-11 | 6-4 | 6-10 | 7-3 |
| 500.00 | 3-11 | 4-3 | 4-8 | 5-1 | 5-7 | 6-0 | 6-6 | 7-0 | 7-6 | 8-1 |
| 525.00 | 4-4 | 4-9 | 5-2 | 5-7 | 6-1 | 6-8 | 7-2 | 7-9 | 8-4 | 8-10 |
| 550.00 | 4-9 | 5-2 | 5-8 | 6-2 | 6-9 | 7-4 | 7-11 | 8-6 | 9-2 | 9-9 |
| 575.00 | 5-2 | 5-8 | 6-2 | 6-9 | 7-4 | 8-0 | 8-8 | 9-4 | 10-0 | 10-8 |
| 600.00 | 5-8 | 6-2 | 6-9 | 7-4 | 8-0 | 8-8 | 9-5 | 10-2 | 10-10 | 11-7 |
| 625.00 | 6-2 | 6-8 | 7-4 | 8-0 | 8-8 | 9-5 | 10-2 | 11-0 | 11-9 | 12-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 0.34 | 1163 | 0.25 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 0.10 | 1433 | 0.08 | 1778 |
| 30 | 0 | 0 | 0 | 0.111 | 0.10 | 1336 | 0.08 | 1718 |
| 40 | 0 | 0 | 0 | 0.111 | 0.11 | 1238 | 0.08 | 1655 |
| 50 | 0 | 0 | 0 | 0.111 | 0.12 | 1140 | 0.09 | 1592 |
| 60 | 0 | 0 | 0 | 0.111 | 0.13 | 1043 | 0.09 | 1528 |
| 70 | 0 | 0 | 0 | 0.111 | 0.15 | 946 | 0.09 | 1462 |
| 80 | 0 | 0 | 0 | 0.111 | 0.16 | 849 | 0.10 | 1396 |
| 90 | 0 | 0 | 0 | 0.111 | 0.18 | 753 | 0.10 | 1328 |
| 100 | 0 | 0 | 0 | 0.111 | 0.21 | 657 | 0.11 | 1259 |
| 110 | 0 | 0 | 0 | 0.111 | 0.25 | 562 | 0.12 | 1189 |
| 120 | 0 | 0 | 0 | 0.111 | 0.30 | 470 | 0.12 | 1118 |
| 130 | 0 | 0 | 0 | 0.111 | 0.36 | 382 | 0.13 | 1046 |
| 167 | 0 | 0 | 0 | 0.111 | 0.88 | 158 | 0.18 | 772 |
| 212 | 0 | 0 | 0 | 0.111 | 1.57 | 88 | 0.32 | 431 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 1.31 | 1207 | 0.99 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 0.39 | 1416 | 0.32 | 1756 |
| 30 | 0 | 0 | 0 | 0.111 | 0.42 | 1319 | 0.33 | 1695 |
| 40 | 0 | 0 | 0 | 0.111 | 0.45 | 1223 | 0.34 | 1633 |
| 50 | 0 | 0 | 0 | 0.111 | 0.49 | 1127 | 0.35 | 1569 |
| 60 | 0 | 0 | 0 | 0.111 | 0.54 | 1031 | 0.37 | 1505 |
| 70 | 0 | 0 | 0 | 0.111 | 0.59 | 937 | 0.39 | 1439 |
| 80 | 0 | 0 | 0 | 0.111 | 0.66 | 843 | 0.40 | 1373 |
| 90 | 0 | 0 | 0 | 0.111 | 0.74 | 751 | 0.43 | 1305 |
| 100 | 0 | 0 | 0 | 0.111 | 0.84 | 662 | 0.45 | 1236 |
| 110 | 0 | 0 | 0 | 0.111 | 0.96 | 576 | 0.48 | 1167 |
| 120 | 0 | 0 | 0 | 0.111 | 1.12 | 496 | 0.51 | 1097 |
| 130 | 0 | 0 | 0 | 0.111 | 1.31 | 423 | 0.54 | 1025 |
| 167 | 0 | 0 | 0 | 0.111 | 2.26 | 245 | 0.73 | 758 |
| 212 | 0 | 0 | 0 | 0.111 | 3.42 | 162 | 1.24 | 449 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 2.82 | 1266 | 2.23 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 0.90 | 1387 | 0.73 | 1719 |
| 30 | 0 | 0 | 0 | 0.111 | 0.97 | 1292 | 0.75 | 1658 |
| 40 | 0 | 0 | 0 | 0.111 | 1.04 | 1197 | 0.78 | 1595 |
| 50 | 0 | 0 | 0 | 0.111 | 1.13 | 1104 | 0.82 | 1532 |
| 60 | 0 | 0 | 0 | 0.111 | 1.23 | 1012 | 0.85 | 1467 |
| 70 | 0 | 0 | 0 | 0.111 | 1.36 | 922 | 0.89 | 1401 |
| 80 | 0 | 0 | 0 | 0.111 | 1.50 | 833 | 0.94 | 1335 |
| 90 | 0 | 0 | 0 | 0.111 | 1.67 | 748 | 0.99 | 1268 |
| 100 | 0 | 0 | 0 | 0.111 | 1.87 | 668 | 1.04 | 1200 |
| 110 | 0 | 0 | 0 | 0.111 | 2.11 | 593 | 1.10 | 1131 |
| 120 | 0 | 0 | 0 | 0.111 | 2.38 | 524 | 1.18 | 1062 |
| 130 | 0 | 0 | 0 | 0.111 | 2.69 | 464 | 1.26 | 992 |
| 167 | 0 | 0 | 0 | 0.111 | 4.00 | 313 | 1.69 | 738 |
| 212 | 0 | 0 | 0 | 0.111 | 5.53 | 226 | 2.67 | 467 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 4.78 | 1326 | 3.96 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 1.65 | 1346 | 1.33 | 1667 |
| 30 | 0 | 0 | 0 | 0.111 | 1.77 | 1253 | 1.38 | 1605 |
| 40 | 0 | 0 | 0 | 0.111 | 1.91 | 1162 | 1.44 | 1542 |
| 50 | 0 | 0 | 0 | 0.111 | 2.07 | 1073 | 1.50 | 1479 |
| 60 | 0 | 0 | 0 | 0.111 | 2.25 | 986 | 1.57 | 1414 |
| 70 | 0 | 0 | 0 | 0.111 | 2.46 | 901 | 1.65 | 1349 |
| 80 | 0 | 0 | 0 | 0.111 | 2.71 | 820 | 1.73 | 1283 |
| 90 | 0 | 0 | 0 | 0.111 | 2.99 | 744 | 1.83 | 1216 |
| 100 | 0 | 0 | 0 | 0.111 | 3.30 | 673 | 1.93 | 1150 |
| 110 | 0 | 0 | 0 | 0.111 | 3.65 | 608 | 2.05 | 1083 |
| 120 | 0 | 0 | 0 | 0.111 | 4.04 | 550 | 2.19 | 1016 |
| 130 | 0 | 0 | 0 | 0.111 | 4.45 | 500 | 2.34 | 949 |
| 167 | 0 | 0 | 0 | 0.111 | 6.06 | 367 | 3.11 | 713 |
| 212 | 0 | 0 | 0 | 0.111 | 7.92 | 281 | 4.59 | 484 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.317 | 7.17 | 1383 | 6.20 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 2.68 | 1293 | 2.17 | 1600 |
| 30 | 0 | 0 | 0 | 0.111 | 2.88 | 1204 | 2.26 | 1538 |
| 40 | 0 | 0 | 0 | 0.111 | 3.10 | 1118 | 2.35 | 1475 |
| 50 | 0 | 0 | 0 | 0.111 | 3.36 | 1034 | 2.46 | 1412 |
| 60 | 0 | 0 | 0 | 0.111 | 3.64 | 953 | 2.57 | 1348 |
| 70 | 0 | 0 | 0 | 0.111 | 3.96 | 876 | 2.70 | 1283 |
| 80 | 0 | 0 | 0 | 0.111 | 4.31 | 804 | 2.85 | 1218 |
| 90 | 0 | 0 | 0 | 0.111 | 4.71 | 737 | 3.01 | 1154 |
| 100 | 0 | 0 | 0 | 0.111 | 5.14 | 676 | 3.19 | 1089 |
| 110 | 0 | 0 | 0 | 0.111 | 5.59 | 620 | 3.39 | 1025 |
| 120 | 0 | 0 | 0 | 0.111 | 6.07 | 571 | 3.61 | 961 |
| 130 | 0 | 0 | 0 | 0.111 | 6.57 | 528 | 3.86 | 899 |
| 167 | 0 | 0 | 0 | 0.111 | 8.45 | 411 | 5.04 | 689 |
| 212 | 0 | 0 | 0 | 0.111 | 10.61 | 328 | 6.98 | 497 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS



OH814.61

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 225.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 |
| 250.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 275.00 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 300.00 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 325.00 | 0-10 | 0-11 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 |
| 350.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 375.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-8 | 1-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 |
| 275.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 |
| 300.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-6 |
| 350.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-7 | 2-10 |
| 375.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-11 | 3-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS



OH814.63

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 |
| 250.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 300.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 |
| 325.00 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 350.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 375.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 |
| 400.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 |
| 425.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 450.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 475.00 | 1-11 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 |
| 500.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 |
| 275.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 |
| 300.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-1 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 2-0 | 2-2 | 2-5 |
| 350.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-10 |
| 375.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-11 | 3-3 |
| 400.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 3-0 | 3-4 | 3-8 |
| 425.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-1 | 3-4 | 3-9 | 4-1 |
| 450.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-2 | 4-7 |
| 475.00 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-6 | 3-10 | 4-3 | 4-8 | 5-2 |
| 500.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-3 | 4-8 | 5-2 | 5-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 300.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 325.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 350.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 375.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 |
| 400.00 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 |
| 425.00 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 |
| 450.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 475.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 500.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 |
| 525.00 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-9 |
| 550.00 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 |
| 575.00 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 4-0 | 4-3 | 4-6 |
| 600.00 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 | 4-11 |
| 625.00 | 3-5 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 5-0 | 5-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 |
| 275.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 |
| 300.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 350.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 |
| 375.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 |
| 400.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 |
| 425.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-5 | 3-9 | 4-0 |
| 450.00 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-6 | 3-10 | 4-2 | 4-6 |
| 475.00 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-8 | 5-1 |
| 500.00 | 2-8 | 2-11 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 | 5-2 | 5-7 |
| 525.00 | 3-0 | 3-2 | 3-5 | 3-8 | 4-0 | 4-4 | 4-9 | 5-2 | 5-8 | 6-2 |
| 550.00 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-3 | 5-8 | 6-3 | 6-9 |
| 575.00 | 3-7 | 3-10 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 | 6-3 | 6-10 | 7-5 |
| 600.00 | 3-10 | 4-2 | 4-6 | 4-10 | 5-3 | 5-8 | 6-3 | 6-9 | 7-5 | 8-1 |
| 625.00 | 4-2 | 4-6 | 4-10 | 5-3 | 5-8 | 6-2 | 6-9 | 7-4 | 8-0 | 8-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 0.3 | 1323 | 0.25 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 0.09 | 1501 | 0.08 | 1718 |
| 30 | 0 | 0 | 0 | 0.111 | 0.11 | 1208 | 0.09 | 1528 |
| 40 | 0 | 0 | 0 | 0.111 | 0.12 | 1111 | 0.09 | 1462 |
| 50 | 0 | 0 | 0 | 0.111 | 0.14 | 1013 | 0.1 | 1396 |
| 60 | 0 | 0 | 0 | 0.111 | 0.15 | 916 | 0.1 | 1328 |
| 70 | 0 | 0 | 0 | 0.111 | 0.17 | 819 | 0.11 | 1259 |
| 80 | 0 | 0 | 0 | 0.111 | 0.19 | 723 | 0.12 | 1189 |
| 90 | 0 | 0 | 0 | 0.111 | 0.22 | 628 | 0.12 | 1118 |
| 100 | 0 | 0 | 0 | 0.111 | 0.26 | 534 | 0.13 | 1046 |
| 110 | 0 | 0 | 0 | 0.111 | 0.31 | 443 | 0.14 | 973 |
| 120 | 0 | 0 | 0 | 0.111 | 0.39 | 356 | 0.15 | 900 |
| 130 | 0 | 0 | 0 | 0.111 | 0.5 | 279 | 0.17 | 825 |
| 167 | 0 | 0 | 0 | 0.111 | 1.1 | 126 | 0.25 | 544 |
| 212 | 0 | 0 | 0 | 0.111 | 1.74 | 80 | 0.6 | 233 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 1.17 | 1352 | 0.99 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 0.37 | 1480 | 0.33 | 1695 |
| 30 | 0 | 0 | 0 | 0.111 | 0.47 | 1191 | 0.37 | 1505 |
| 40 | 0 | 0 | 0 | 0.111 | 0.51 | 1095 | 0.39 | 1439 |
| 50 | 0 | 0 | 0 | 0.111 | 0.56 | 1000 | 0.4 | 1373 |
| 60 | 0 | 0 | 0 | 0.111 | 0.61 | 905 | 0.43 | 1305 |
| 70 | 0 | 0 | 0 | 0.111 | 0.68 | 812 | 0.45 | 1236 |
| 80 | 0 | 0 | 0 | 0.111 | 0.77 | 721 | 0.48 | 1167 |
| 90 | 0 | 0 | 0 | 0.111 | 0.88 | 633 | 0.51 | 1097 |
| 100 | 0 | 0 | 0 | 0.111 | 1.01 | 549 | 0.54 | 1025 |
| 110 | 0 | 0 | 0 | 0.111 | 1.18 | 471 | 0.58 | 954 |
| 120 | 0 | 0 | 0 | 0.111 | 1.38 | 401 | 0.63 | 881 |
| 130 | 0 | 0 | 0 | 0.111 | 1.62 | 342 | 0.69 | 809 |
| 167 | 0 | 0 | 0 | 0.111 | 2.63 | 211 | 1.02 | 546 |
| 212 | 0 | 0 | 0 | 0.111 | 3.72 | 149 | 1.88 | 296 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 2.57 | 1391 | 2.23 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 0.86 | 1446 | 0.75 | 1658 |
| 30 | 0 | 0 | 0 | 0.111 | 1.08 | 1162 | 0.85 | 1467 |
| 40 | 0 | 0 | 0 | 0.111 | 1.17 | 1069 | 0.89 | 1401 |
| 50 | 0 | 0 | 0 | 0.111 | 1.28 | 977 | 0.94 | 1335 |
| 60 | 0 | 0 | 0 | 0.111 | 1.41 | 887 | 0.99 | 1268 |
| 70 | 0 | 0 | 0 | 0.111 | 1.56 | 800 | 1.04 | 1200 |
| 80 | 0 | 0 | 0 | 0.111 | 1.74 | 717 | 1.1 | 1131 |
| 90 | 0 | 0 | 0 | 0.111 | 1.96 | 638 | 1.18 | 1062 |
| 100 | 0 | 0 | 0 | 0.111 | 2.21 | 566 | 1.26 | 992 |
| 110 | 0 | 0 | 0 | 0.111 | 2.5 | 500 | 1.35 | 923 |
| 120 | 0 | 0 | 0 | 0.111 | 2.82 | 443 | 1.46 | 853 |
| 130 | 0 | 0 | 0 | 0.111 | 3.16 | 395 | 1.59 | 785 |
| 167 | 0 | 0 | 0 | 0.111 | 4.49 | 278 | 2.28 | 548 |
| 212 | 0 | 0 | 0 | 0.111 | 5.96 | 210 | 3.63 | 345 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 4.43 | 1433 | 3.96 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 1.59 | 1396 | 1.38 | 1605 |
| 30 | 0 | 0 | 0 | 0.111 | 1.98 | 1121 | 1.57 | 1414 |
| 40 | 0 | 0 | 0 | 0.111 | 2.15 | 1033 | 1.65 | 1349 |
| 50 | 0 | 0 | 0 | 0.111 | 2.35 | 947 | 1.73 | 1283 |
| 60 | 0 | 0 | 0 | 0.111 | 2.57 | 864 | 1.83 | 1216 |
| 70 | 0 | 0 | 0 | 0.111 | 2.83 | 785 | 1.93 | 1150 |
| 80 | 0 | 0 | 0 | 0.111 | 3.12 | 711 | 2.05 | 1083 |
| 90 | 0 | 0 | 0 | 0.111 | 3.46 | 643 | 2.19 | 1016 |
| 100 | 0 | 0 | 0 | 0.111 | 3.82 | 581 | 2.34 | 949 |
| 110 | 0 | 0 | 0 | 0.111 | 4.22 | 526 | 2.51 | 883 |
| 120 | 0 | 0 | 0 | 0.111 | 4.64 | 479 | 2.71 | 818 |
| 130 | 0 | 0 | 0 | 0.111 | 5.07 | 438 | 2.94 | 756 |
| 167 | 0 | 0 | 0 | 0.111 | 6.68 | 333 | 4.04 | 550 |
| 212 | 0 | 0 | 0 | 0.111 | 8.48 | 262 | 5.8 | 383 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 6.73 | 1473 | 6.2 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 2.6 | 1333 | 2.26 | 1538 |
| 30 | 0 | 0 | 0 | 0.111 | 3.24 | 1071 | 2.57 | 1348 |
| 40 | 0 | 0 | 0 | 0.111 | 3.51 | 989 | 2.7 | 1283 |
| 50 | 0 | 0 | 0 | 0.111 | 3.81 | 910 | 2.85 | 1218 |
| 60 | 0 | 0 | 0 | 0.111 | 4.15 | 836 | 3.01 | 1154 |
| 70 | 0 | 0 | 0 | 0.111 | 4.53 | 766 | 3.19 | 1089 |
| 80 | 0 | 0 | 0 | 0.111 | 4.94 | 702 | 3.39 | 1025 |
| 90 | 0 | 0 | 0 | 0.111 | 5.38 | 644 | 3.61 | 961 |
| 100 | 0 | 0 | 0 | 0.111 | 5.86 | 593 | 3.86 | 899 |
| 110 | 0 | 0 | 0 | 0.111 | 6.35 | 547 | 4.14 | 839 |
| 120 | 0 | 0 | 0 | 0.111 | 6.85 | 507 | 4.44 | 781 |
| 130 | 0 | 0 | 0 | 0.111 | 7.36 | 472 | 4.78 | 725 |
| 167 | 0 | 0 | 0 | 0.111 | 9.22 | 377 | 6.29 | 552 |
| 212 | 0 | 0 | 0 | 0.111 | 11.3 | 308 | 8.4 | 413 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.69

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 |
| 250.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-7 | 1-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.70

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 300.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 325.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 350.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 |
| 375.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 |
| 250.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 |
| 275.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-3 | 2-6 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-11 |
| 350.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-8 | 3-0 | 3-5 |
| 375.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-9 | 3-1 | 3-5 | 3-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 250.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 275.00 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 |
| 300.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 325.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 350.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 |
| 375.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 400.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 |
| 425.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 450.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 |
| 475.00 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-7 |
| 500.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 |
| 275.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 |
| 300.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 |
| 325.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 |
| 350.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 |
| 375.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-9 |
| 400.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-10 | 4-3 |
| 425.00 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-11 | 4-4 | 4-9 |
| 450.00 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-4 | 4-10 | 5-4 |
| 475.00 | 2-7 | 2-10 | 3-0 | 3-4 | 3-7 | 4-0 | 4-5 | 4-10 | 5-5 | 5-11 |
| 500.00 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-5 | 4-11 | 5-5 | 6-0 | 6-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 275.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 300.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 325.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 350.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 |
| 375.00 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-4 |
| 400.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 425.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 3-0 |
| 450.00 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 |
| 475.00 | 2-3 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 |
| 500.00 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-2 |
| 525.00 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 |
| 550.00 | 3-0 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-8 | 5-0 |
| 575.00 | 3-3 | 3-5 | 3-7 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-1 | 5-6 |
| 600.00 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 | 4-11 | 5-2 | 5-7 | 5-11 |
| 625.00 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 5-0 | 5-3 | 5-8 | 6-0 | 6-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 275.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 |
| 300.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 |
| 325.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 |
| 350.00 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 |
| 375.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-4 | 3-7 |
| 400.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-1 |
| 425.00 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 |
| 450.00 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 | 4-9 | 5-2 |
| 475.00 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-1 | 4-5 | 4-10 | 5-3 | 5-9 |
| 500.00 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-6 | 4-11 | 5-5 | 5-10 | 6-4 |
| 525.00 | 3-4 | 3-7 | 3-10 | 4-2 | 4-7 | 5-0 | 5-5 | 5-11 | 6-5 | 7-0 |
| 550.00 | 3-8 | 3-11 | 4-3 | 4-7 | 5-0 | 5-6 | 6-0 | 6-6 | 7-1 | 7-8 |
| 575.00 | 4-0 | 4-3 | 4-8 | 5-0 | 5-6 | 6-0 | 6-6 | 7-1 | 7-9 | 8-5 |
| 600.00 | 4-4 | 4-8 | 5-1 | 5-6 | 6-0 | 6-6 | 7-1 | 7-9 | 8-5 | 9-2 |
| 625.00 | 4-8 | 5-1 | 5-6 | 5-11 | 6-6 | 7-1 | 7-9 | 8-5 | 9-2 | 9-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 0.27 | 1458 | 0.22 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.08 | 1640 | 0.07 | 1912 |
| 30 | 0 | 0 | 0 | 0.111 | 0.10 | 1347 | 0.08 | 1734 |
| 40 | 0 | 0 | 0 | 0.111 | 0.11 | 1249 | 0.08 | 1672 |
| 50 | 0 | 0 | 0 | 0.111 | 0.12 | 1151 | 0.09 | 1609 |
| 60 | 0 | 0 | 0 | 0.111 | 0.13 | 1054 | 0.09 | 1545 ! |
| 70 | 0 | 0 | 0 | 0.111 | 0.15 | 957 | 0.09 | 1480 |
| 80 | 0 | 0 | 0 | 0.111 | 0.16 | 860 | 0.10 | 1414 |
| 90 | 0 | 0 | 0 | 0.111 | 0.18 | 763 | 0.10 | 1346 |
| 100 | 0 | 0 | 0 | 0.111 | 0.21 | 668 | 0.11 | 1278 |
| 110 | 0 | 0 | 0 | 0.111 | 0.24 | 573 | 0.11 | 1208 |
| 120 | 0 | 0 | 0 | 0.111 | 0.29 | 480 | 0.12 | 1137 |
| 130 | 0 | 0 | 0 | 0.111 | 0.35 | 392 | 0.13 | 1066 |
| 167 | 0 | 0 | 0 | 0.111 | 0.86 | 162 | 0.18 | 792 |
| 212 | 0 | 0 | 0 | 0.111 | 1.56 | 89 | 0.31 | 451 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 1.07 | 1484 | 0.88 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.34 | 1625 | 0.29 | 1895 |
| 30 | 0 | 0 | 0 | 0.111 | 0.42 | 1334 | 0.32 | 1717 |
| 40 | 0 | 0 | 0 | 0.111 | 0.45 | 1237 | 0.34 | 1655 |
| 50 | 0 | 0 | 0 | 0.111 | 0.49 | 1141 | 0.35 | 1592 |
| 60 | 0 | 0 | 0 | 0.111 | 0.53 | 1046 | 0.36 | 1528 |
| 70 | 0 | 0 | 0 | 0.111 | 0.58 | 951 | 0.38 | 1462 |
| 80 | 0 | 0 | 0 | 0.111 | 0.65 | 857 | 0.40 | 1396 |
| 90 | 0 | 0 | 0 | 0.111 | 0.73 | 765 | 0.42 | 1329 |
| 100 | 0 | 0 | 0 | 0.111 | 0.82 | 675 | 0.44 | 1261 |
| 110 | 0 | 0 | 0 | 0.111 | 0.94 | 589 | 0.47 | 1191 |
| 120 | 0 | 0 | 0 | 0.111 | 1.09 | 507 | 0.49 | 1121 |
| 130 | 0 | 0 | 0 | 0.111 | 1.28 | 433 | 0.53 | 1050 |
| 167 | 0 | 0 | 0 | 0.111 | 2.22 | 250 | 0.71 | 784 |
| 212 | 0 | 0 | 0 | 0.111 | 3.39 | 164 | 1.18 | 470 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 2.35 | 1521 | 1.98 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.78 | 1599 | 0.67 | 1868 |
| 30 | 0 | 0 | 0 | 0.111 | 0.95 | 1312 | 0.74 | 1688 |
| 40 | 0 | 0 | 0 | 0.111 | 1.03 | 1218 | 0.77 | 1626 |
| 50 | 0 | 0 | 0 | 0.111 | 1.11 | 1124 | 0.80 | 1563 |
| 60 | 0 | 0 | 0 | 0.111 | 1.21 | 1032 | 0.83 | 1499 |
| 70 | 0 | 0 | 0 | 0.111 | 1.33 | 941 | 0.87 | 1434 |
| 80 | 0 | 0 | 0 | 0.111 | 1.47 | 852 | 0.91 | 1368 |
| 90 | 0 | 0 | 0 | 0.111 | 1.63 | 767 | 0.96 | 1301 |
| 100 | 0 | 0 | 0 | 0.111 | 1.82 | 685 | 1.01 | 1233 |
| 110 | 0 | 0 | 0 | 0.111 | 2.05 | 608 | 1.07 | 1165 |
| 120 | 0 | 0 | 0 | 0.111 | 2.32 | 539 | 1.14 | 1096 |
| 130 | 0 | 0 | 0 | 0.111 | 2.62 | 477 | 1.22 | 1026 |
| 167 | 0 | 0 | 0 | 0.111 | 3.92 | 319 | 1.62 | 771 |
| 212 | 0 | 0 | 0 | 0.111 | 5.46 | 229 | 2.54 | 492 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 4.06 | 1564 | 3.52 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 1.42 | 1563 | 1.21 | 1829 |
| 30 | 0 | 0 | 0 | 0.111 | 1.73 | 1283 | 1.35 | 1648 |
| 40 | 0 | 0 | 0 | 0.111 | 1.86 | 1191 | 1.40 | 1586 |
| 50 | 0 | 0 | 0 | 0.111 | 2.02 | 1101 | 1.46 | 1523 |
| 60 | 0 | 0 | 0 | 0.111 | 2.19 | 1013 | 1.52 | 1459 |
| 70 | 0 | 0 | 0 | 0.111 | 2.39 | 928 | 1.59 | 1394 |
| 80 | 0 | 0 | 0 | 0.111 | 2.63 | 846 | 1.67 | 1329 |
| 90 | 0 | 0 | 0 | 0.111 | 2.89 | 768 | 1.76 | 1263 |
| 100 | 0 | 0 | 0 | 0.111 | 3.20 | 695 | 1.86 | 1196 |
| 110 | 0 | 0 | 0 | 0.111 | 3.54 | 628 | 1.97 | 1129 |
| 120 | 0 | 0 | 0 | 0.111 | 3.91 | 568 | 2.09 | 1062 |
| 130 | 0 | 0 | 0 | 0.111 | 4.31 | 515 | 2.23 | 995 |
| 167 | 0 | 0 | 0 | 0.111 | 5.92 | 376 | 2.94 | 755 |
| 212 | 0 | 0 | 0 | 0.111 | 7.80 | 285 | 4.33 | 513 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.317 | 6.17 | 1607 | 5.51 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 2.29 | 1517 | 1.95 | 1779 |
| 30 | 0 | 0 | 0 | 0.111 | 2.79 | 1245 | 2.17 | 1597 |
| 40 | 0 | 0 | 0 | 0.111 | 3.00 | 1158 | 2.26 | 1535 |
| 50 | 0 | 0 | 0 | 0.111 | 3.23 | 1072 | 2.36 | 1472 |
| 60 | 0 | 0 | 0 | 0.111 | 3.50 | 990 | 2.46 | 1409 |
| 70 | 0 | 0 | 0 | 0.111 | 3.81 | 911 | 2.58 | 1345 |
| 80 | 0 | 0 | 0 | 0.111 | 4.15 | 837 | 2.71 | 1280 |
| 90 | 0 | 0 | 0 | 0.111 | 4.52 | 767 | 2.85 | 1215 |
| 100 | 0 | 0 | 0 | 0.111 | 4.93 | 703 | 3.02 | 1150 |
| 110 | 0 | 0 | 0 | 0.111 | 5.38 | 645 | 3.20 | 1086 |
| 120 | 0 | 0 | 0 | 0.111 | 5.85 | 593 | 3.40 | 1022 |
| 130 | 0 | 0 | 0 | 0.111 | 6.34 | 547 | 3.62 | 958 |
| 167 | 0 | 0 | 0 | 0.111 | 8.22 | 423 | 4.70 | 739 |
| 212 | 0 | 0 | 0 | 0.111 | 10.40 | 334 | 6.54 | 531 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 250.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 |
| 275.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 300.00 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 325.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 350.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 375.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 250.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 |
| 275.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 |
| 300.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 |
| 325.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 |
| 350.00 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 |
| 375.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-7 | 2-10 | 3-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 275.00 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 300.00 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 325.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 |
| 350.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 375.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 400.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |
| 425.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 |
| 450.00 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 |
| 475.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 |
| 500.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 |
| 275.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 |
| 300.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 |
| 350.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 |
| 375.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 |
| 400.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 |
| 425.00 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 3-0 | 3-3 | 3-7 | 4-0 |
| 450.00 | 2-1 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-4 | 3-8 | 4-1 | 4-6 |
| 475.00 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-8 | 4-1 | 4-6 | 5-0 |
| 500.00 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-1 | 4-6 | 5-0 | 5-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 300.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 |
| 325.00 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 350.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 375.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 |
| 400.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 |
| 425.00 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 450.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 475.00 | 1-11 | 2-0 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 |
| 500.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 |
| 525.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 550.00 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 |
| 575.00 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 4-0 | 4-3 |
| 600.00 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-4 | 4-7 |
| 625.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 |
| 275.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 |
| 300.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 |
| 350.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 |
| 375.00 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 |
| 400.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 |
| 425.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 |
| 450.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 |
| 475.00 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-1 | 4-5 | 4-10 |
| 500.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-6 | 4-11 | 5-5 |
| 525.00 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-7 | 5-0 | 5-5 | 5-11 |
| 550.00 | 3-2 | 3-4 | 3-8 | 3-11 | 4-3 | 4-7 | 5-0 | 5-6 | 6-0 | 6-6 |
| 575.00 | 3-5 | 3-8 | 4-0 | 4-3 | 4-8 | 5-0 | 5-6 | 6-0 | 6-6 | 7-1 |
| 600.00 | 3-9 | 4-0 | 4-4 | 4-8 | 5-1 | 5-6 | 6-0 | 6-6 | 7-1 | 7-9 |
| 625.00 | 4-1 | 4-4 | 4-8 | 5-1 | 5-6 | 5-11 | 6-6 | 7-1 | 7-9 | 8-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 0.68 | 952 | 0.54 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 0.12 | 1147 | 0.10 | 1364 |
| 30 | 0 | 0 | 0 | 0.111 | 0.13 | 1050 | 0.11 | 1296 |
| 40 | 0 | 0 | 0 | 0.111 | 0.15 | 953 | 0.11 | 1226 |
| 50 | 0 | 0 | 0 | 0.111 | 0.16 | 856 | 0.12 | 1156 |
| 60 | 0 | 0 | 0 | 0.111 | 0.18 | 759 | 0.13 | 1084 |
| 70 | 0 | 0 | 0 | 0.111 | 0.21 | 663 | 0.14 | 1012 |
| 80 | 0 | 0 | 0 | 0.111 | 0.24 | 569 | 0.15 | 939 |
| 90 | 0 | 0 | 0 | 0.111 | 0.29 | 476 | 0.16 | 865 |
| 100 | 0 | 0 | 0 | 0.111 | 0.36 | 388 | 0.18 | 790 |
| 110 | 0 | 0 | 0 | 0.111 | 0.45 | 307 | 0.19 | 714 |
| 120 | 0 | 0 | 0 | 0.111 | 0.58 | 238 | 0.22 | 638 |
| 130 | 0 | 0 | 0 | 0.111 | 0.74 | 187 | 0.25 | 562 |
| 167 | 0 | 0 | 0 | 0.111 | 1.35 | 103 | 0.47 | 293 |
| 212 | 0 | 0 | 0 | 0.111 | 1.93 | 72 | 1.14 | 121 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 2.44 | 1066 | 2.17 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 0.53 | 1050 | 0.45 | 1235 |
| 30 | 0 | 0 | 0 | 0.111 | 0.58 | 955 | 0.48 | 1165 |
| 40 | 0 | 0 | 0 | 0.111 | 0.64 | 861 | 0.51 | 1095 |
| 50 | 0 | 0 | 0 | 0.111 | 0.72 | 769 | 0.54 | 1024 |
| 60 | 0 | 0 | 0 | 0.111 | 0.82 | 679 | 0.58 | 952 |
| 70 | 0 | 0 | 0 | 0.111 | 0.94 | 593 | 0.63 | 880 |
| 80 | 0 | 0 | 0 | 0.111 | 1.09 | 511 | 0.69 | 807 |
| 90 | 0 | 0 | 0 | 0.111 | 1.27 | 437 | 0.76 | 735 |
| 100 | 0 | 0 | 0 | 0.111 | 1.49 | 372 | 0.84 | 663 |
| 110 | 0 | 0 | 0 | 0.111 | 1.74 | 318 | 0.94 | 593 |
| 120 | 0 | 0 | 0 | 0.111 | 2.01 | 276 | 1.06 | 524 |
| 130 | 0 | 0 | 0 | 0.111 | 2.29 | 242 | 1.21 | 459 |
| 167 | 0 | 0 | 0 | 0.111 | 3.25 | 171 | 2.01 | 276 |
| 212 | 0 | 0 | 0 | 0.111 | 4.24 | 131 | 3.16 | 176 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 5.07 | 1157 | 4.89 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 1.42 | 878 | 1.23 | 1019 |
| 30 | 0 | 0 | 0 | 0.111 | 1.58 | 792 | 1.32 | 949 |
| 40 | 0 | 0 | 0 | 0.111 | 1.76 | 709 | 1.42 | 880 |
| 50 | 0 | 0 | 0 | 0.111 | 1.98 | 630 | 1.54 | 811 |
| 60 | 0 | 0 | 0 | 0.111 | 2.24 | 558 | 1.68 | 743 |
| 70 | 0 | 0 | 0 | 0.111 | 2.53 | 494 | 1.85 | 677 |
| 80 | 0 | 0 | 0 | 0.111 | 2.85 | 438 | 2.04 | 613 |
| 90 | 0 | 0 | 0 | 0.111 | 3.20 | 391 | 2.26 | 553 |
| 100 | 0 | 0 | 0 | 0.111 | 3.56 | 351 | 2.51 | 497 |
| 110 | 0 | 0 | 0 | 0.111 | 3.92 | 319 | 2.80 | 447 |
| 120 | 0 | 0 | 0 | 0.111 | 4.28 | 292 | 3.10 | 402 |
| 130 | 0 | 0 | 0 | 0.111 | 4.63 | 270 | 3.43 | 364 |
| 167 | 0 | 0 | 0 | 0.111 | 5.84 | 214 | 4.68 | 267 |
| 212 | 0 | 0 | 0 | 0.111 | 7.13 | 176 | 6.09 | 205 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 8.70 | 1200 | 8.70 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 3.51 | 633 | 3.00 | 740 |
| 30 | 0 | 0 | 0 | 0.111 | 3.88 | 573 | 3.27 | 680 |
| 40 | 0 | 0 | 0 | 0.111 | 4.28 | 519 | 3.56 | 624 |
| 50 | 0 | 0 | 0 | 0.111 | 4.70 | 473 | 3.89 | 572 |
| 60 | 0 | 0 | 0 | 0.111 | 5.14 | 433 | 4.24 | 524 |
| 70 | 0 | 0 | 0 | 0.111 | 5.57 | 399 | 4.62 | 481 |
| 80 | 0 | 0 | 0 | 0.111 | 6.01 | 370 | 5.01 | 443 |
| 90 | 0 | 0 | 0 | 0.111 | 6.44 | 345 | 5.42 | 410 |
| 100 | 0 | 0 | 0 | 0.111 | 6.87 | 324 | 5.83 | 381 |
| 110 | 0 | 0 | 0 | 0.111 | 7.28 | 305 | 6.24 | 356 |
| 120 | 0 | 0 | 0 | 0.111 | 7.69 | 289 | 6.65 | 334 |
| 130 | 0 | 0 | 0 | 0.111 | 8.08 | 275 | 7.05 | 315 |
| 167 | 0 | 0 | 0 | 0.111 | 9.44 | 236 | 8.47 | 263 |
| 212 | 0 | 0 | 0 | 0.111 | 10.92 | 204 | 10.03 | 222 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 13.60 | 1200 | 13.60 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 7.96 | 436 | 6.87 | 506 |
| 30 | 0 | 0 | 0 | 0.111 | 8.46 | 410 | 7.34 | 473 |
| 40 | 0 | 0 | 0 | 0.111 | 8.96 | 388 | 7.81 | 444 |
| 50 | 0 | 0 | 0 | 0.111 | 9.45 | 368 | 8.29 | 419 |
| 60 | 0 | 0 | 0 | 0.111 | 9.92 | 350 | 8.77 | 396 |
| 70 | 0 | 0 | 0 | 0.111 | 10.39 | 334 | 9.24 | 376 |
| 80 | 0 | 0 | 0 | 0.111 | 10.84 | 320 | 9.70 | 358 |
| 90 | 0 | 0 | 0 | 0.111 | 11.29 | 308 | 10.15 | 342 |
| 100 | 0 | 0 | 0 | 0.111 | 11.72 | 297 | 10.60 | 328 |
| 110 | 0 | 0 | 0 | 0.111 | 12.14 | 286 | 11.04 | 315 |
| 120 | 0 | 0 | 0 | 0.111 | 12.56 | 277 | 11.47 | 303 |
| 130 | 0 | 0 | 0 | 0.111 | 12.96 | 268 | 11.89 | 292 |
| 167 | 0 | 0 | 0 | 0.111 | 14.38 | 242 | 13.37 | 260 |
| 212 | 0 | 0 | 0 | 0.111 | 15.96 | 218 | 15.02 | 232 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-7 | 0-8 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-5 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.85

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-1 | 1-2 |
| 250.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 |
| 200.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-2 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-6 | 1-8 | 2-0 | 2-4 | 2-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 |
| 300.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 |
| 325.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 |
| 350.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-1 | 3-5 | 3-10 |
| 375.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-11 | 4-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 |
| 250.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 |
| 275.00 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-5 | 2-8 | 3-0 | 3-4 |
| 300.00 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-7 | 3-11 |
| 325.00 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-9 | 4-2 | 4-7 |
| 350.00 | 1-11 | 2-2 | 2-5 | 2-8 | 3-1 | 3-5 | 3-11 | 4-4 | 4-10 | 5-4 |
| 375.00 | 2-3 | 2-6 | 2-9 | 3-1 | 3-6 | 3-11 | 4-5 | 5-0 | 5-7 | 6-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 |
| 225.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 250.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 |
| 275.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 |
| 300.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 |
| 325.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 |
| 350.00 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-6 | 4-9 |
| 375.00 | 2-8 | 2-10 | 3-2 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 | 5-6 |
| 400.00 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-5 | 5-10 | 6-3 |
| 425.00 | 3-5 | 3-8 | 4-0 | 4-5 | 4-9 | 5-3 | 5-8 | 6-1 | 6-7 | 7-1 |
| 450.00 | 3-10 | 4-2 | 4-6 | 4-11 | 5-4 | 5-10 | 6-4 | 6-10 | 7-5 | 7-11 |
| 475.00 | 4-3 | 4-7 | 5-0 | 5-6 | 6-0 | 6-6 | 7-1 | 7-8 | 8-3 | 8-10 |
| 500.00 | 4-8 | 5-1 | 5-7 | 6-1 | 6-7 | 7-3 | 7-10 | 8-6 | 9-1 | 9-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 |
| 225.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 |
| 250.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 275.00 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 |
| 300.00 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 | 4-1 |
| 325.00 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 | 4-10 |
| 350.00 | 2-8 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 |
| 375.00 | 3-1 | 3-5 | 3-9 | 4-2 | 4-6 | 4-11 | 5-3 | 5-8 | 6-0 | 6-5 |
| 400.00 | 3-6 | 3-11 | 4-3 | 4-8 | 5-2 | 5-7 | 6-0 | 6-5 | 6-10 | 7-3 |
| 425.00 | 4-0 | 4-5 | 4-10 | 5-4 | 5-10 | 6-4 | 6-9 | 7-3 | 7-9 | 8-3 |
| 450.00 | 4-5 | 4-11 | 5-5 | 5-11 | 6-6 | 7-1 | 7-7 | 8-2 | 8-8 | 9-3 |
| 475.00 | 4-11 | 5-6 | 6-0 | 6-8 | 7-3 | 7-10 | 8-6 | 9-1 | 9-8 | 10-3 |
| 500.00 | 5-6 | 6-1 | 6-8 | 7-4 | 8-0 | 8-9 | 9-5 | 10-1 | 10-9 | 11-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 |
| 275.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 |
| 300.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 |
| 325.00 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 |
| 350.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 |
| 375.00 | 3-10 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-9 | 6-0 | 6-2 |
| 400.00 | 4-5 | 4-8 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-1 |
| 425.00 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 |
| 450.00 | 5-7 | 5-11 | 6-4 | 6-9 | 7-1 | 7-6 | 7-10 | 8-3 | 8-7 | 8-11 |
| 475.00 | 6-2 | 6-7 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 | 9-2 | 9-7 | 10-0 |
| 500.00 | 6-10 | 7-4 | 7-10 | 8-3 | 8-9 | 9-3 | 9-8 | 10-2 | 10-7 | 11-0 |
| 525.00 | 7-7 | 8-1 | 8-7 | 9-2 | 9-8 | 10-2 | 10-8 | 11-2 | 11-8 | 12-2 |
| 550.00 | 8-4 | 8-11 | 9-5 | 10-0 | 10-7 | 11-2 | 11-9 | 12-3 | 12-10 | 13-4 |
| 575.00 | 9-1 | 9-8 | 10-4 | 11-0 | 11-7 | 12-3 | 12-10 | 13-5 | 14-0 | 14-7 |
| 600.00 | 9-11 | 10-7 | 11-3 | 11-11 | 12-8 | 13-4 | 14-0 | 14-8 | 15-3 | 15-11 |
| 625.00 | 10-9 | 11-6 | 12-3 | 12-11 | 13-8 | 14-5 | 15-2 | 15-10 | 16-7 | 17-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 |
| 275.00 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 |
| 300.00 | 2-10 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-4 |
| 325.00 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-2 |
| 350.00 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 |
| 375.00 | 4-6 | 4-9 | 5-0 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 |
| 400.00 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 |
| 425.00 | 5-9 | 6-1 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 | 8-6 | 8-9 |
| 450.00 | 6-5 | 6-10 | 7-3 | 7-8 | 8-0 | 8-5 | 8-9 | 9-2 | 9-6 | 9-10 |
| 475.00 | 7-2 | 7-8 | 8-1 | 8-6 | 8-11 | 9-5 | 9-9 | 10-2 | 10-7 | 11-0 |
| 500.00 | 7-11 | 8-6 | 9-0 | 9-5 | 9-11 | 10-5 | 10-11 | 11-3 | 11-9 | 12-2 |
| 525.00 | 8-9 | 9-4 | 9-11 | 10-5 | 10-11 | 11-5 | 11-11 | 12-5 | 12-11 | 13-5 |
| 550.00 | 9-8 | 10-3 | 10-10 | 11-5 | 12-0 | 12-7 | 13-1 | 13-8 | 14-2 | 14-8 |
| 575.00 | 10-6 | 11-2 | 11-10 | 12-6 | 13-2 | 13-9 | 14-4 | 14-11 | 15-6 | 16-1 |
| 600.00 | 11-6 | 12-2 | 12-11 | 13-7 | 14-4 | 15-0 | 15-7 | 16-3 | 16-11 | 17-6 |
| 625.00 | 12-5 | 13-3 | 14-0 | 14-9 | 15-6 | 16-3 | 16-11 | 17-8 | 18-4 | 19-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 0.55 | 1193 | 0.41 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 0.10 | 1424 | 0.08 | 1765 |
| 30 | 0 | 0 | 0 | 0.111 | 0.10 | 1326 | 0.08 | 1703 |
| 40 | 0 | 0 | 0 | 0.111 | 0.11 | 1229 | 0.08 | 1641 |
| 50 | 0 | 0 | 0 | 0.111 | 0.12 | 1131 | 0.09 | 1578 |
| 60 | 0 | 0 | 0 | 0.111 | 0.13 | 1034 | 0.09 | 1513 |
| 70 | 0 | 0 | 0 | 0.111 | 0.15 | 937 | 0.10 | 1447 |
| 80 | 0 | 0 | 0 | 0.111 | 0.17 | 840 | 0.10 | 1380 |
| 90 | 0 | 0 | 0 | 0.111 | 0.19 | 743 | 0.11 | 1312 |
| 100 | 0 | 0 | 0 | 0.111 | 0.21 | 648 | 0.11 | 1243 |
| 110 | 0 | 0 | 0 | 0.111 | 0.25 | 553 | 0.12 | 1173 |
| 120 | 0 | 0 | 0 | 0.111 | 0.30 | 461 | 0.13 | 1102 |
| 130 | 0 | 0 | 0 | 0.111 | 0.37 | 374 | 0.13 | 1030 |
| 167 | 0 | 0 | 0 | 0.111 | 0.89 | 155 | 0.18 | 755 |
| 212 | 0 | 0 | 0 | 0.111 | 1.59 | 88 | 0.33 | 415 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 2.01 | 1295 | 1.63 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 0.40 | 1377 | 0.33 | 1700 |
| 30 | 0 | 0 | 0 | 0.111 | 0.43 | 1280 | 0.34 | 1638 |
| 40 | 0 | 0 | 0 | 0.111 | 0.47 | 1184 | 0.35 | 1574 |
| 50 | 0 | 0 | 0 | 0.111 | 0.51 | 1088 | 0.37 | 1510 |
| 60 | 0 | 0 | 0 | 0.111 | 0.56 | 993 | 0.38 | 1444 |
| 70 | 0 | 0 | 0 | 0.111 | 0.62 | 899 | 0.40 | 1378 |
| 80 | 0 | 0 | 0 | 0.111 | 0.69 | 806 | 0.42 | 1310 |
| 90 | 0 | 0 | 0 | 0.111 | 0.78 | 715 | 0.45 | 1242 |
| 100 | 0 | 0 | 0 | 0.111 | 0.89 | 627 | 0.47 | 1172 |
| 110 | 0 | 0 | 0 | 0.111 | 1.02 | 543 | 0.50 | 1102 |
| 120 | 0 | 0 | 0 | 0.111 | 1.19 | 466 | 0.54 | 1031 |
| 130 | 0 | 0 | 0 | 0.111 | 1.40 | 397 | 0.58 | 959 |
| 167 | 0 | 0 | 0 | 0.111 | 2.37 | 234 | 0.80 | 692 |
| 212 | 0 | 0 | 0 | 0.111 | 3.51 | 158 | 1.41 | 394 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 4.18 | 1403 | 3.66 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 0.96 | 1296 | 0.79 | 1590 |
| 30 | 0 | 0 | 0 | 0.111 | 1.04 | 1202 | 0.82 | 1526 |
| 40 | 0 | 0 | 0 | 0.111 | 1.13 | 1109 | 0.85 | 1461 |
| 50 | 0 | 0 | 0 | 0.111 | 1.23 | 1017 | 0.89 | 1396 |
| 60 | 0 | 0 | 0 | 0.111 | 1.35 | 926 | 0.94 | 1329 |
| 70 | 0 | 0 | 0 | 0.111 | 1.49 | 838 | 0.99 | 1262 |
| 80 | 0 | 0 | 0 | 0.111 | 1.66 | 753 | 1.05 | 1194 |
| 90 | 0 | 0 | 0 | 0.111 | 1.86 | 672 | 1.11 | 1125 |
| 100 | 0 | 0 | 0 | 0.111 | 2.09 | 596 | 1.18 | 1056 |
| 110 | 0 | 0 | 0 | 0.111 | 2.37 | 528 | 1.27 | 986 |
| 120 | 0 | 0 | 0 | 0.111 | 2.67 | 467 | 1.36 | 917 |
| 130 | 0 | 0 | 0 | 0.111 | 3.01 | 415 | 1.47 | 848 |
| 167 | 0 | 0 | 0 | 0.111 | 4.34 | 288 | 2.07 | 603 |
| 212 | 0 | 0 | 0 | 0.111 | 5.83 | 214 | 3.32 | 376 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 6.97 | 1497 | 6.52 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 1.88 | 1179 | 1.55 | 1433 |
| 30 | 0 | 0 | 0 | 0.111 | 2.04 | 1089 | 1.62 | 1368 |
| 40 | 0 | 0 | 0 | 0.111 | 2.22 | 1001 | 1.71 | 1302 |
| 50 | 0 | 0 | 0 | 0.111 | 2.42 | 916 | 1.80 | 1236 |
| 60 | 0 | 0 | 0 | 0.111 | 2.66 | 835 | 1.90 | 1169 |
| 70 | 0 | 0 | 0 | 0.111 | 2.93 | 757 | 2.01 | 1102 |
| 80 | 0 | 0 | 0 | 0.111 | 3.24 | 685 | 2.15 | 1035 |
| 90 | 0 | 0 | 0 | 0.111 | 3.59 | 619 | 2.29 | 968 |
| 100 | 0 | 0 | 0 | 0.111 | 3.96 | 560 | 2.46 | 902 |
| 110 | 0 | 0 | 0 | 0.111 | 4.37 | 508 | 2.65 | 837 |
| 120 | 0 | 0 | 0 | 0.111 | 4.80 | 463 | 2.87 | 774 |
| 130 | 0 | 0 | 0 | 0.111 | 5.23 | 425 | 3.12 | 712 |
| 167 | 0 | 0 | 0 | 0.111 | 6.84 | 325 | 4.29 | 517 |
| 212 | 0 | 0 | 0 | 0.111 | 8.62 | 258 | 6.09 | 365 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.521 | 10.39 | 1568 | 10.19 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 3.39 | 1022 | 2.82 | 1231 |
| 30 | 0 | 0 | 0 | 0.111 | 3.68 | 942 | 2.97 | 1166 |
| 40 | 0 | 0 | 0 | 0.111 | 4.01 | 866 | 3.15 | 1102 |
| 50 | 0 | 0 | 0 | 0.111 | 4.37 | 794 | 3.34 | 1037 |
| 60 | 0 | 0 | 0 | 0.111 | 4.77 | 728 | 3.56 | 974 |
| 70 | 0 | 0 | 0 | 0.111 | 5.20 | 667 | 3.81 | 911 |
| 80 | 0 | 0 | 0 | 0.111 | 5.66 | 613 | 4.08 | 850 |
| 90 | 0 | 0 | 0 | 0.111 | 6.15 | 565 | 4.38 | 792 |
| 100 | 0 | 0 | 0 | 0.111 | 6.65 | 522 | 4.72 | 736 |
| 110 | 0 | 0 | 0 | 0.111 | 7.15 | 485 | 5.08 | 683 |
| 120 | 0 | 0 | 0 | 0.111 | 7.66 | 453 | 5.47 | 634 |
| 130 | 0 | 0 | 0 | 0.111 | 8.17 | 425 | 5.89 | 589 |
| 167 | 0 | 0 | 0 | 0.111 | 9.98 | 348 | 7.60 | 457 |
| 212 | 0 | 0 | 0 | 0.111 | 11.99 | 290 | 9.72 | 357 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 250.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-4 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 300.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 325.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 350.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 375.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-8 |
| 275.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 |
| 300.00 | 1-0 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-6 | 2-9 |
| 350.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 | 3-3 |
| 375.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS



OH814.95

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 250.00 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 275.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 300.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-5 | 1-6 |
| 325.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 350.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 |
| 375.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 |
| 400.00 | 1-7 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 425.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 |
| 450.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 |
| 475.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 |
| 500.00 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-10 | 4-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 |
| 250.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 |
| 275.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-1 |
| 300.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 |
| 325.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-11 |
| 350.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 |
| 375.00 | 1-8 | 1-10 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 |
| 400.00 | 1-11 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 4-0 | 4-4 |
| 425.00 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-1 | 4-6 | 4-11 |
| 450.00 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-9 | 4-1 | 4-6 | 5-0 | 5-6 |
| 475.00 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-2 | 4-7 | 5-1 | 5-7 | 6-2 |
| 500.00 | 2-11 | 3-2 | 3-6 | 3-9 | 4-2 | 4-7 | 5-1 | 5-7 | 6-2 | 6-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 275.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 |
| 350.00 | 1-5 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 375.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 400.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 |
| 425.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 |
| 450.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 |
| 475.00 | 2-7 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 |
| 500.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-9 | 5-1 |
| 525.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 |
| 550.00 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-11 | 5-4 | 5-8 | 6-2 |
| 575.00 | 3-9 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 | 5-5 | 5-10 | 6-3 | 6-9 |
| 600.00 | 4-1 | 4-3 | 4-6 | 4-10 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-4 |
| 625.00 | 4-5 | 4-8 | 4-11 | 5-3 | 5-7 | 5-11 | 6-4 | 6-10 | 7-4 | 7-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 275.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 |
| 300.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 |
| 325.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 |
| 350.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 |
| 375.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-0 |
| 400.00 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-7 |
| 425.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-1 | 4-5 | 4-10 | 5-2 |
| 450.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-3 | 4-7 | 5-0 | 5-5 | 5-10 |
| 475.00 | 3-1 | 3-4 | 3-7 | 3-11 | 4-4 | 4-8 | 5-1 | 5-7 | 6-0 | 6-5 |
| 500.00 | 3-5 | 3-8 | 4-0 | 4-4 | 4-9 | 5-2 | 5-8 | 6-2 | 6-8 | 7-2 |
| 525.00 | 3-9 | 4-1 | 4-5 | 4-10 | 5-3 | 5-9 | 6-3 | 6-9 | 7-4 | 7-11 |
| 550.00 | 4-1 | 4-5 | 4-10 | 5-3 | 5-9 | 6-4 | 6-10 | 7-5 | 8-1 | 8-8 |
| 575.00 | 4-6 | 4-10 | 5-4 | 5-9 | 6-4 | 6-11 | 7-6 | 8-2 | 8-9 | 9-6 |
| 600.00 | 4-11 | 5-4 | 5-9 | 6-4 | 6-10 | 7-6 | 8-2 | 8-10 | 9-7 | 10-4 |
| 625.00 | 5-4 | 5-9 | 6-3 | 6-10 | 7-5 | 8-2 | 8-10 | 9-7 | 10-5 | 11-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 0.48 | 1344 | 0.41 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 0.09 | 1491 | 0.08 | 1703 |
| 30 | 0 | 0 | 0 | 0.111 | 0.12 | 1198 | 0.09 | 1513 |
| 40 | 0 | 0 | 0 | 0.111 | 0.13 | 1101 | 0.1 | 1447 |
| 50 | 0 | 0 | 0 | 0.111 | 0.14 | 1003 | 0.1 | 1380 |
| 60 | 0 | 0 | 0 | 0.111 | 0.15 | 906 | 0.11 | 1312 |
| 70 | 0 | 0 | 0 | 0.111 | 0.17 | 809 | 0.11 | 1243 |
| 80 | 0 | 0 | 0 | 0.111 | 0.19 | 713 | 0.12 | 1173 |
| 90 | 0 | 0 | 0 | 0.111 | 0.22 | 618 | 0.13 | 1102 |
| 100 | 0 | 0 | 0 | 0.111 | 0.26 | 524 | 0.13 | 1030 |
| 110 | 0 | 0 | 0 | 0.111 | 0.32 | 433 | 0.15 | 956 |
| 120 | 0 | 0 | 0 | 0.111 | 0.4 | 348 | 0.16 | 882 |
| 130 | 0 | 0 | 0 | 0.111 | 0.51 | 272 | 0.17 | 808 |
| 167 | 0 | 0 | 0 | 0.111 | 1.12 | 124 | 0.26 | 527 |
| 212 | 0 | 0 | 0 | 0.111 | 1.75 | 79 | 0.63 | 221 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 1.84 | 1418 | 1.63 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 0.39 | 1439 | 0.34 | 1638 |
| 30 | 0 | 0 | 0 | 0.111 | 0.48 | 1149 | 0.38 | 1444 |
| 40 | 0 | 0 | 0 | 0.111 | 0.53 | 1054 | 0.4 | 1378 |
| 50 | 0 | 0 | 0 | 0.111 | 0.58 | 959 | 0.42 | 1310 |
| 60 | 0 | 0 | 0 | 0.111 | 0.64 | 865 | 0.45 | 1242 |
| 70 | 0 | 0 | 0 | 0.111 | 0.72 | 773 | 0.47 | 1172 |
| 80 | 0 | 0 | 0 | 0.111 | 0.81 | 682 | 0.5 | 1102 |
| 90 | 0 | 0 | 0 | 0.111 | 0.93 | 596 | 0.54 | 1031 |
| 100 | 0 | 0 | 0 | 0.111 | 1.08 | 514 | 0.58 | 959 |
| 110 | 0 | 0 | 0 | 0.111 | 1.26 | 439 | 0.63 | 887 |
| 120 | 0 | 0 | 0 | 0.111 | 1.48 | 374 | 0.68 | 814 |
| 130 | 0 | 0 | 0 | 0.111 | 1.73 | 320 | 0.75 | 742 |
| 167 | 0 | 0 | 0 | 0.111 | 2.74 | 203 | 1.15 | 485 |
| 212 | 0 | 0 | 0 | 0.111 | 3.82 | 146 | 2.11 | 263 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 3.91 | 1500 | 3.66 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 0.93 | 1347 | 0.82 | 1526 |
| 30 | 0 | 0 | 0 | 0.111 | 1.17 | 1066 | 0.94 | 1329 |
| 40 | 0 | 0 | 0 | 0.111 | 1.28 | 974 | 0.99 | 1262 |
| 50 | 0 | 0 | 0 | 0.111 | 1.41 | 885 | 1.05 | 1194 |
| 60 | 0 | 0 | 0 | 0.111 | 1.57 | 798 | 1.11 | 1125 |
| 70 | 0 | 0 | 0 | 0.111 | 1.75 | 715 | 1.18 | 1056 |
| 80 | 0 | 0 | 0 | 0.111 | 1.96 | 636 | 1.27 | 986 |
| 90 | 0 | 0 | 0 | 0.111 | 2.22 | 563 | 1.36 | 917 |
| 100 | 0 | 0 | 0 | 0.111 | 2.51 | 499 | 1.47 | 848 |
| 110 | 0 | 0 | 0 | 0.111 | 2.83 | 442 | 1.6 | 779 |
| 120 | 0 | 0 | 0 | 0.111 | 3.17 | 394 | 1.75 | 712 |
| 130 | 0 | 0 | 0 | 0.111 | 3.53 | 354 | 1.93 | 647 |
| 167 | 0 | 0 | 0 | 0.111 | 4.85 | 258 | 2.85 | 439 |
| 212 | 0 | 0 | 0 | 0.111 | 6.27 | 200 | 4.34 | 288 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 6.64 | 1570 | 6.52 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 1.83 | 1212 | 1.62 | 1368 |
| 30 | 0 | 0 | 0 | 0.111 | 2.34 | 947 | 1.9 | 1169 |
| 40 | 0 | 0 | 0 | 0.111 | 2.57 | 864 | 2.01 | 1102 |
| 50 | 0 | 0 | 0 | 0.111 | 2.83 | 785 | 2.15 | 1035 |
| 60 | 0 | 0 | 0 | 0.111 | 3.12 | 711 | 2.29 | 968 |
| 70 | 0 | 0 | 0 | 0.111 | 3.45 | 643 | 2.46 | 902 |
| 80 | 0 | 0 | 0 | 0.111 | 3.82 | 581 | 2.65 | 837 |
| 90 | 0 | 0 | 0 | 0.111 | 4.22 | 527 | 2.87 | 774 |
| 100 | 0 | 0 | 0 | 0.111 | 4.64 | 479 | 3.12 | 712 |
| 110 | 0 | 0 | 0 | 0.111 | 5.07 | 438 | 3.39 | 654 |
| 120 | 0 | 0 | 0 | 0.111 | 5.51 | 403 | 3.7 | 600 |
| 130 | 0 | 0 | 0 | 0.111 | 5.95 | 374 | 4.04 | 550 |
| 167 | 0 | 0 | 0 | 0.111 | 7.51 | 296 | 5.48 | 406 |
| 212 | 0 | 0 | 0 | 0.111 | 9.21 | 242 | 7.31 | 304 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 10.19 | 1600 | 10.19 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 3.48 | 998 | 2.97 | 1166 |
| 30 | 0 | 0 | 0 | 0.111 | 4.48 | 774 | 3.56 | 974 |
| 40 | 0 | 0 | 0 | 0.111 | 4.89 | 709 | 3.81 | 911 |
| 50 | 0 | 0 | 0 | 0.111 | 5.33 | 651 | 4.08 | 850 |
| 60 | 0 | 0 | 0 | 0.111 | 5.8 | 598 | 4.38 | 792 |
| 70 | 0 | 0 | 0 | 0.111 | 6.29 | 552 | 4.72 | 736 |
| 80 | 0 | 0 | 0 | 0.111 | 6.8 | 511 | 5.08 | 683 |
| 90 | 0 | 0 | 0 | 0.111 | 7.3 | 475 | 5.47 | 634 |
| 100 | 0 | 0 | 0 | 0.111 | 7.81 | 444 | 5.89 | 589 |
| 110 | 0 | 0 | 0 | 0.111 | 8.32 | 417 | 6.34 | 548 |
| 120 | 0 | 0 | 0 | 0.111 | 8.82 | 394 | 6.79 | 511 |
| 130 | 0 | 0 | 0 | 0.111 | 9.31 | 373 | 7.26 | 478 |
| 167 | 0 | 0 | 0 | 0.111 | 11.03 | 315 | 9.02 | 385 |
| 212 | 0 | 0 | 0 | 0.111 | 12.93 | 269 | 11.06 | 314 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.101

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 250.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-9 | 0-10 | 1-0 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 |
| 250.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 2-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 250.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 275.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 300.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 325.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 |
| 350.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 |
| 375.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 |
| 225.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 |
| 250.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 2-0 |
| 275.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-5 |
| 300.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-10 |
| 325.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-11 | 3-4 |
| 350.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 3-0 | 3-5 | 3-10 |
| 375.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-9 | 3-1 | 3-6 | 3-11 | 4-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-3 | 1-4 |
| 275.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 |
| 350.00 | 1-5 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-5 | 2-7 |
| 375.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 |
| 400.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-5 |
| 425.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 |
| 450.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-8 | 3-11 | 4-4 |
| 475.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 |
| 500.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 |
| 275.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 |
| 300.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 |
| 325.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-1 | 3-4 |
| 350.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 |
| 375.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-1 | 4-5 |
| 400.00 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-10 | 4-3 | 4-8 | 5-1 |
| 425.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-11 | 4-4 | 4-9 | 5-3 | 5-9 |
| 450.00 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-4 | 4-10 | 5-4 | 5-10 | 6-5 |
| 475.00 | 3-0 | 3-4 | 3-7 | 4-0 | 4-5 | 4-10 | 5-5 | 5-11 | 6-6 | 7-2 |
| 500.00 | 3-4 | 3-8 | 4-0 | 4-5 | 4-11 | 5-5 | 6-0 | 6-7 | 7-3 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 300.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 |
| 325.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 350.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 |
| 375.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 |
| 400.00 | 2-2 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 |
| 425.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 |
| 450.00 | 2-9 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-9 | 5-2 |
| 475.00 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 4-11 | 5-4 | 5-9 |
| 500.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-9 | 5-1 | 5-6 | 5-11 | 6-4 |
| 525.00 | 3-8 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 6-0 | 6-6 | 7-0 |
| 550.00 | 4-1 | 4-4 | 4-7 | 4-11 | 5-4 | 5-8 | 6-2 | 6-7 | 7-2 | 7-8 |
| 575.00 | 4-5 | 4-9 | 5-0 | 5-5 | 5-10 | 6-3 | 6-9 | 7-3 | 7-10 | 8-5 |
| 600.00 | 4-10 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-4 | 7-11 | 8-6 | 9-1 |
| 625.00 | 5-3 | 5-7 | 5-11 | 6-4 | 6-10 | 7-4 | 7-11 | 8-7 | 9-3 | 9-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 |
| 275.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 |
| 300.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-0 |
| 325.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-6 |
| 350.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 |
| 375.00 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 |
| 400.00 | 2-8 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 |
| 425.00 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-7 | 4-11 | 5-3 | 5-8 | 6-0 |
| 450.00 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 | 5-1 | 5-6 | 5-11 | 6-4 | 6-9 |
| 475.00 | 3-9 | 4-1 | 4-5 | 4-10 | 5-3 | 5-8 | 6-2 | 6-7 | 7-1 | 7-6 |
| 500.00 | 4-1 | 4-6 | 4-11 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-10 | 8-4 |
| 525.00 | 4-6 | 4-11 | 5-5 | 5-11 | 6-5 | 6-11 | 7-6 | 8-1 | 8-7 | 9-2 |
| 550.00 | 5-0 | 5-5 | 5-11 | 6-5 | 7-0 | 7-7 | 8-3 | 8-10 | 9-5 | 10-1 |
| 575.00 | 5-5 | 5-11 | 6-6 | 7-1 | 7-8 | 8-4 | 9-0 | 9-8 | 10-4 | 11-0 |
| 600.00 | 5-11 | 6-5 | 7-1 | 7-8 | 8-4 | 9-1 | 9-9 | 10-6 | 11-3 | 12-0 |
| 625.00 | 6-5 | 7-0 | 7-8 | 8-4 | 9-1 | 9-10 | 10-7 | 11-5 | 12-3 | 13-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 0.44 | 1477 | 0.36 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.09 | 1632 | 0.07 | 1901 |
| 30 | 0 | 0 | 0 | 0.111 | 0.10 | 1339 | 0.08 | 1723 |
| 40 | 0 | 0 | 0 | 0.111 | 0.11 | 1241 | 0.08 | 1661 |
| 50 | 0 | 0 | 0 | 0.111 | 0.12 | 1144 | 0.09 | 1598 |
| 60 | 0 | 0 | 0 | 0.111 | 0.13 | 1047 | 0.09 | 1533 ! |
| 70 | 0 | 0 | 0 | 0.111 | 0.15 | 949 | 0.09 | 1468 |
| 80 | 0 | 0 | 0 | 0.111 | 0.16 | 852 | 0.10 | 1401 |
| 90 | 0 | 0 | 0 | 0.111 | 0.18 | 756 | 0.10 | 1334 |
| 100 | 0 | 0 | 0 | 0.111 | 0.21 | 660 | 0.11 | 1265 |
| 110 | 0 | 0 | 0 | 0.111 | 0.25 | 566 | 0.12 | 1195 |
| 120 | 0 | 0 | 0 | 0.111 | 0.29 | 473 | 0.12 | 1124 |
| 130 | 0 | 0 | 0 | 0.111 | 0.36 | 385 | 0.13 | 1052 |
| 167 | 0 | 0 | 0 | 0.111 | 0.87 | 159 | 0.18 | 779 |
| 212 | 0 | 0 | 0 | 0.111 | 1.57 | 89 | 0.32 | 438 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 1.68 | 1546 | 1.45 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.35 | 1594 | 0.30 | 1853 |
| 30 | 0 | 0 | 0 | 0.111 | 0.43 | 1303 | 0.33 | 1671 |
| 40 | 0 | 0 | 0 | 0.111 | 0.46 | 1207 | 0.34 | 1609 |
| 50 | 0 | 0 | 0 | 0.111 | 0.50 | 1111 | 0.36 | 1545 |
| 60 | 0 | 0 | 0 | 0.111 | 0.55 | 1016 | 0.38 | 1480 |
| 70 | 0 | 0 | 0 | 0.111 | 0.60 | 921 | 0.39 | 1414 |
| 80 | 0 | 0 | 0 | 0.111 | 0.67 | 828 | 0.41 | 1347 |
| 90 | 0 | 0 | 0 | 0.111 | 0.75 | 736 | 0.43 | 1279 |
| 100 | 0 | 0 | 0 | 0.111 | 0.86 | 647 | 0.46 | 1210 |
| 110 | 0 | 0 | 0 | 0.111 | 0.99 | 562 | 0.49 | 1140 |
| 120 | 0 | 0 | 0 | 0.111 | 1.15 | 483 | 0.52 | 1069 |
| 130 | 0 | 0 | 0 | 0.111 | 1.35 | 412 | 0.56 | 998 |
| 167 | 0 | 0 | 0 | 0.111 | 2.31 | 241 | 0.76 | 731 |
| 212 | 0 | 0 | 0 | 0.111 | 3.46 | 161 | 1.30 | 425 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 3.60 | 1629 | 3.26 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.82 | 1528 | 0.71 | 1770 |
| 30 | 0 | 0 | 0 | 0.111 | 1.00 | 1243 | 0.79 | 1585 |
| 40 | 0 | 0 | 0 | 0.111 | 1.09 | 1149 | 0.82 | 1522 |
| 50 | 0 | 0 | 0 | 0.111 | 1.18 | 1056 | 0.86 | 1457 |
| 60 | 0 | 0 | 0 | 0.111 | 1.29 | 965 | 0.90 | 1391 |
| 70 | 0 | 0 | 0 | 0.111 | 1.43 | 875 | 0.94 | 1325 |
| 80 | 0 | 0 | 0 | 0.111 | 1.58 | 789 | 0.99 | 1257 |
| 90 | 0 | 0 | 0 | 0.111 | 1.77 | 706 | 1.05 | 1189 |
| 100 | 0 | 0 | 0 | 0.111 | 1.99 | 628 | 1.11 | 1120 |
| 110 | 0 | 0 | 0 | 0.111 | 2.25 | 556 | 1.19 | 1051 |
| 120 | 0 | 0 | 0 | 0.111 | 2.54 | 492 | 1.27 | 981 |
| 130 | 0 | 0 | 0 | 0.111 | 2.86 | 436 | 1.37 | 912 |
| 167 | 0 | 0 | 0 | 0.111 | 4.18 | 299 | 1.89 | 661 |
| 212 | 0 | 0 | 0 | 0.111 | 5.70 | 219 | 3.02 | 414 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 6.10 | 1709 | 5.79 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 1.55 | 1432 | 1.34 | 1652 |
| 30 | 0 | 0 | 0 | 0.111 | 1.92 | 1156 | 1.52 | 1463 |
| 40 | 0 | 0 | 0 | 0.111 | 2.08 | 1066 | 1.59 | 1399 |
| 50 | 0 | 0 | 0 | 0.111 | 2.27 | 979 | 1.67 | 1333 |
| 60 | 0 | 0 | 0 | 0.111 | 2.48 | 895 | 1.75 | 1267 |
| 70 | 0 | 0 | 0 | 0.111 | 2.73 | 815 | 1.85 | 1201 |
| 80 | 0 | 0 | 0 | 0.111 | 3.01 | 738 | 1.96 | 1134 |
| 90 | 0 | 0 | 0 | 0.111 | 3.33 | 668 | 2.08 | 1067 |
| 100 | 0 | 0 | 0 | 0.111 | 3.68 | 604 | 2.22 | 1000 |
| 110 | 0 | 0 | 0 | 0.111 | 4.07 | 546 | 2.38 | 933 |
| 120 | 0 | 0 | 0 | 0.111 | 4.48 | 496 | 2.56 | 868 |
| 130 | 0 | 0 | 0 | 0.111 | 4.91 | 453 | 2.76 | 803 |
| 167 | 0 | 0 | 0 | 0.111 | 6.52 | 341 | 3.78 | 588 |
| 212 | 0 | 0 | 0 | 0.111 | 8.34 | 267 | 5.49 | 405 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.521 | 9.17 | 1776 | 9.05 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 2.66 | 1302 | 2.31 | 1499 |
| 30 | 0 | 0 | 0 | 0.111 | 3.33 | 1042 | 2.65 | 1307 |
| 40 | 0 | 0 | 0 | 0.111 | 3.61 | 961 | 2.79 | 1242 |
| 50 | 0 | 0 | 0 | 0.111 | 3.92 | 884 | 2.95 | 1177 |
| 60 | 0 | 0 | 0 | 0.111 | 4.28 | 811 | 3.12 | 1113 |
| 70 | 0 | 0 | 0 | 0.111 | 4.67 | 744 | 3.31 | 1048 |
| 80 | 0 | 0 | 0 | 0.111 | 5.09 | 682 | 3.52 | 985 |
| 90 | 0 | 0 | 0 | 0.111 | 5.55 | 626 | 3.76 | 922 |
| 100 | 0 | 0 | 0 | 0.111 | 6.02 | 576 | 4.03 | 861 |
| 110 | 0 | 0 | 0 | 0.111 | 6.52 | 532 | 4.33 | 802 |
| 120 | 0 | 0 | 0 | 0.111 | 7.03 | 494 | 4.66 | 745 |
| 130 | 0 | 0 | 0 | 0.111 | 7.54 | 461 | 5.01 | 692 |
| 167 | 0 | 0 | 0 | 0.111 | 9.39 | 370 | 6.58 | 528 |
| 212 | 0 | 0 | 0 | 0.111 | 11.45 | 304 | 8.71 | 399 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 225.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 |
| 250.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 300.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 325.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 350.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 375.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-11 | 1-0 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 |
| 275.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 |
| 300.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 |
| 350.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 3-1 |
| 375.00 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 3-1 | 3-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 300.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 325.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-6 | 1-7 |
| 350.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 |
| 375.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 |
| 400.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 |
| 425.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 |
| 450.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 475.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 |
| 500.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 |
| 250.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 |
| 275.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 |
| 350.00 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 |
| 375.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 |
| 400.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-1 |
| 425.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-2 | 4-7 |
| 450.00 | 2-3 | 2-5 | 2-8 | 2-10 | 3-2 | 3-5 | 3-10 | 4-3 | 4-8 | 5-2 |
| 475.00 | 2-6 | 2-9 | 2-11 | 3-2 | 3-6 | 3-10 | 4-3 | 4-8 | 5-2 | 5-9 |
| 500.00 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 | 4-3 | 4-8 | 5-2 | 5-9 | 6-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.112

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 275.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 300.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 |
| 325.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 |
| 350.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 |
| 375.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 |
| 400.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 425.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 |
| 450.00 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 |
| 475.00 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 |
| 500.00 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-4 |
| 525.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-9 |
| 550.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 4-0 | 4-3 | 4-7 | 4-11 | 5-3 |
| 575.00 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-5 | 4-8 | 5-0 | 5-4 | 5-9 |
| 600.00 | 3-8 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 | 5-1 | 5-5 | 5-10 | 6-3 |
| 625.00 | 3-11 | 4-2 | 4-4 | 4-7 | 4-10 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 |
| 275.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 |
| 300.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 325.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 |
| 350.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 2-11 | 3-2 |
| 375.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 |
| 400.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 |
| 425.00 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 | 4-9 |
| 450.00 | 2-6 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-1 | 4-6 | 4-11 | 5-3 |
| 475.00 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-3 | 4-7 | 5-0 | 5-5 | 5-11 |
| 500.00 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-8 | 5-1 | 5-7 | 6-0 | 6-6 |
| 525.00 | 3-5 | 3-8 | 4-0 | 4-4 | 4-9 | 5-2 | 5-7 | 6-1 | 6-8 | 7-2 |
| 550.00 | 3-9 | 4-0 | 4-4 | 4-9 | 5-2 | 5-8 | 6-2 | 6-9 | 7-3 | 7-11 |
| 575.00 | 4-1 | 4-5 | 4-9 | 5-2 | 5-8 | 6-2 | 6-9 | 7-4 | 8-0 | 8-8 |
| 600.00 | 4-5 | 4-10 | 5-2 | 5-8 | 6-2 | 6-9 | 7-4 | 8-0 | 8-8 | 9-5 |
| 625.00 | 4-10 | 5-2 | 5-8 | 6-2 | 6-8 | 7-4 | 7-11 | 8-8 | 9-5 | 10-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 1.06 | 1035 | 0.91 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 0.13 | 1090 | 0.11 | 1283 |
| 30 | 0 | 0 | 0 | 0.111 | 0.14 | 993 | 0.11 | 1213 |
| 40 | 0 | 0 | 0 | 0.111 | 0.15 | 896 | 0.12 | 1143 |
| 50 | 0 | 0 | 0 | 0.111 | 0.17 | 799 | 0.13 | 1071 |
| 60 | 0 | 0 | 0 | 0.111 | 0.20 | 703 | 0.14 | 999 |
| 70 | 0 | 0 | 0 | 0.111 | 0.23 | 608 | 0.15 | 925 |
| 80 | 0 | 0 | 0 | 0.111 | 0.27 | 514 | 0.16 | 851 |
| 90 | 0 | 0 | 0 | 0.111 | 0.33 | 424 | 0.18 | 776 |
| 100 | 0 | 0 | 0 | 0.111 | 0.41 | 339 | 0.20 | 700 |
| 110 | 0 | 0 | 0 | 0.111 | 0.52 | 265 | 0.22 | 624 |
| 120 | 0 | 0 | 0 | 0.111 | 0.67 | 206 | 0.25 | 548 |
| 130 | 0 | 0 | 0 | 0.111 | 0.85 | 164 | 0.29 | 472 |
| 167 | 0 | 0 | 0 | 0.111 | 1.44 | 97 | 0.62 | 225 |
| 212 | 0 | 0 | 0 | 0.111 | 1.99 | 70 | 1.32 | 105 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 3.64 | 1200 | 3.64 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 0.70 | 798 | 0.62 | 897 |
| 30 | 0 | 0 | 0 | 0.111 | 0.78 | 707 | 0.67 | 825 |
| 40 | 0 | 0 | 0 | 0.111 | 0.90 | 619 | 0.74 | 753 |
| 50 | 0 | 0 | 0 | 0.111 | 1.04 | 536 | 0.82 | 681 |
| 60 | 0 | 0 | 0 | 0.111 | 1.21 | 459 | 0.91 | 610 |
| 70 | 0 | 0 | 0 | 0.111 | 1.42 | 391 | 1.03 | 541 |
| 80 | 0 | 0 | 0 | 0.111 | 1.66 | 334 | 1.17 | 475 |
| 90 | 0 | 0 | 0 | 0.111 | 1.93 | 288 | 1.34 | 414 |
| 100 | 0 | 0 | 0 | 0.111 | 2.20 | 252 | 1.54 | 359 |
| 110 | 0 | 0 | 0 | 0.111 | 2.48 | 224 | 1.78 | 313 |
| 120 | 0 | 0 | 0 | 0.111 | 2.75 | 202 | 2.03 | 274 |
| 130 | 0 | 0 | 0 | 0.111 | 3.00 | 185 | 2.28 | 243 |
| 167 | 0 | 0 | 0 | 0.111 | 3.87 | 144 | 3.22 | 173 |
| 212 | 0 | 0 | 0 | 0.111 | 4.75 | 117 | 4.19 | 133 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 8.21 | 1200 | 8.21 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 4.22 | 296 | 3.34 | 374 |
| 30 | 0 | 0 | 0 | 0.111 | 4.58 | 273 | 3.68 | 340 |
| 40 | 0 | 0 | 0 | 0.111 | 4.92 | 254 | 4.02 | 311 |
| 50 | 0 | 0 | 0 | 0.111 | 5.25 | 238 | 4.36 | 287 |
| 60 | 0 | 0 | 0 | 0.111 | 5.58 | 224 | 4.69 | 266 |
| 70 | 0 | 0 | 0 | 0.111 | 5.89 | 212 | 5.02 | 249 |
| 80 | 0 | 0 | 0 | 0.111 | 6.19 | 202 | 5.34 | 234 |
| 90 | 0 | 0 | 0 | 0.111 | 6.48 | 193 | 5.65 | 221 |
| 100 | 0 | 0 | 0 | 0.111 | 6.76 | 185 | 5.96 | 210 |
| 110 | 0 | 0 | 0 | 0.111 | 7.03 | 178 | 6.25 | 200 |
| 120 | 0 | 0 | 0 | 0.111 | 7.30 | 172 | 6.53 | 191 |
| 130 | 0 | 0 | 0 | 0.111 | 7.55 | 166 | 6.81 | 184 |
| 167 | 0 | 0 | 0 | 0.111 | 8.45 | 148 | 7.76 | 161 |
| 212 | 0 | 0 | 0 | 0.111 | 9.43 | 133 | 8.81 | 142 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 14.63 | 1200 | 14.63 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 10.91 | 204 | 10.02 | 222 |
| 30 | 0 | 0 | 0 | 0.111 | 11.22 | 199 | 10.35 | 215 |
| 40 | 0 | 0 | 0 | 0.111 | 11.52 | 193 | 10.67 | 209 |
| 50 | 0 | 0 | 0 | 0.111 | 11.81 | 189 | 10.98 | 203 |
| 60 | 0 | 0 | 0 | 0.111 | 12.10 | 184 | 11.28 | 197 |
| 70 | 0 | 0 | 0 | 0.111 | 12.38 | 180 | 11.58 | 192 |
| 80 | 0 | 0 | 0 | 0.111 | 12.66 | 176 | 11.87 | 188 |
| 90 | 0 | 0 | 0 | 0.111 | 12.93 | 172 | 12.15 | 183 |
| 100 | 0 | 0 | 0 | 0.111 | 13.20 | 169 | 12.43 | 179 |
| 110 | 0 | 0 | 0 | 0.111 | 13.46 | 166 | 12.70 | 175 |
| 120 | 0 | 0 | 0 | 0.111 | 13.72 | 163 | 12.97 | 172 |
| 130 | 0 | 0 | 0 | 0.111 | 13.97 | 160 | 13.24 | 168 |
| 167 | 0 | 0 | 0 | 0.111 | 14.88 | 150 | 14.18 | 157 |
| 212 | 0 | 0 | 0 | 0.111 | 15.91 | 140 | 15.25 | 146 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 22.93 | 1200 | 22.93 | 1200* |
| 20 | 0 | 0 | 0 | 0.111 | 19.34 | 180 | 18.53 | 188 |
| 30 | 0 | 0 | 0 | 0.111 | 19.63 | 178 | 18.82 | 185 |
| 40 | 0 | 0 | 0 | 0.111 | 19.91 | 175 | 19.11 | 183 |
| 50 | 0 | 0 | 0 | 0.111 | 20.18 | 173 | 19.39 | 180 |
| 60 | 0 | 0 | 0 | 0.111 | 20.45 | 171 | 19.67 | 177 |
| 70 | 0 | 0 | 0 | 0.111 | 20.72 | 169 | 19.95 | 175 |
| 80 | 0 | 0 | 0 | 0.111 | 20.99 | 166 | 20.22 | 173 |
| 90 | 0 | 0 | 0 | 0.111 | 21.25 | 164 | 20.49 | 170 |
| 100 | 0 | 0 | 0 | 0.111 | 21.51 | 162 | 20.76 | 168 |
| 110 | 0 | 0 | 0 | 0.111 | 21.77 | 161 | 21.03 | 166 |
| 120 | 0 | 0 | 0 | 0.111 | 22.02 | 159 | 21.29 | 164 |
| 130 | 0 | 0 | 0 | 0.111 | 22.27 | 157 | 21.55 | 162 |
| 167 | 0 | 0 | 0 | 0.111 | 23.18 | 151 | 22.48 | 156 |
| 212 | 0 | 0 | 0 | 0.111 | 24.24 | 144 | 23.56 | 149 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-10 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-2 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-3 | 1-7 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-8 | 2-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.117

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-3 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-8 | 1-11 |
| 200.00 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-5 | 1-8 | 1-11 | 2-2 | 2-6 |
| 225.00 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-10 | 2-1 | 2-5 | 2-9 | 3-2 |
| 250.00 | 1-1 | 1-3 | 1-5 | 1-7 | 1-11 | 2-3 | 2-7 | 3-0 | 3-5 | 3-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.118

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 175.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 |
| 200.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 |
| 225.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 250.00 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 |
| 275.00 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 |
| 300.00 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 |
| 325.00 | 3-11 | 4-4 | 4-9 | 5-1 | 5-6 | 5-11 | 6-3 | 6-8 | 7-0 | 7-4 |
| 350.00 | 4-7 | 5-0 | 5-6 | 5-11 | 6-5 | 6-10 | 7-3 | 7-8 | 8-1 | 8-6 |
| 375.00 | 5-3 | 5-9 | 6-3 | 6-10 | 7-4 | 7-10 | 8-4 | 8-10 | 9-4 | 9-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 |
| 175.00 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 |
| 200.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-1 |
| 225.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 3-11 |
| 250.00 | 2-11 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-6 | 4-8 | 4-11 |
| 275.00 | 3-7 | 3-10 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 |
| 300.00 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-0 |
| 325.00 | 4-11 | 5-4 | 5-9 | 6-2 | 6-7 | 6-11 | 7-3 | 7-7 | 7-11 | 8-3 |
| 350.00 | 5-9 | 6-3 | 6-8 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 | 9-2 | 9-7 |
| 375.00 | 6-7 | 7-2 | 7-8 | 8-3 | 8-9 | 9-2 | 9-8 | 10-2 | 10-7 | 11-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.119

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 |
| 225.00 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 250.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 |
| 275.00 | 4-9 | 4-11 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 |
| 300.00 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 |
| 325.00 | 6-7 | 6-10 | 7-0 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-5 |
| 350.00 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 |
| 375.00 | 8-10 | 9-1 | 9-4 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 |
| 400.00 | 10-0 | 10-4 | 10-8 | 11-0 | 11-3 | 11-7 | 11-10 | 12-2 | 12-5 | 12-8 |
| 425.00 | 11-4 | 11-8 | 12-1 | 12-5 | 12-9 | 13-1 | 13-5 | 13-9 | 14-0 | 14-4 |
| 450.00 | 12-8 | 13-1 | 13-6 | 13-11 | 14-3 | 14-8 | 15-0 | 15-5 | 15-9 | 16-1 |
| 475.00 | 14-2 | 14-7 | 15-1 | 15-6 | 15-11 | 16-4 | 16-9 | 17-2 | 17-6 | 17-11 |
| 500.00 | 15-8 | 16-2 | 16-8 | 17-2 | 17-8 | 18-1 | 18-7 | 19-0 | 19-5 | 19-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-9 | 2-10 | 2-11 | 2-1 | 1 3- | 0 3- | 1 3-2 | 3-3 | 3-4 | 3-4 |
| 225.00 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 250.00 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 |
| 275.00 | 5-2 | 5-4 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 |
| 300.00 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-5 | 7-7 |
| 325.00 | 7-2 | 7-5 | 7-7 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-9 | 8-11 |
| 350.00 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-6 | 9-8 | 9-11 | 10-1 | 10-4 |
| 375.00 | 9-7 | 9-10 | 10-1 | 10-5 | 10-8 | 10-11 | 11-2 | 11-4 | 11-7 | 11-10 |
| 400.00 | 10-11 | 11-3 | 11-6 | 11-10 | 12-1 | 12-5 | 12-8 | 12-11 | 13-2 | 13-6 |
| 425.00 | 12-4 | 12-8 | 13-0 | 13-4 | 13-8 | 14-0 | 14-4 | 14-7 | 14-11 | 15-2 |
| 450.00 | 13-10 | 14-2 | 14-7 | 14-11 | 15-4 | 15-8 | 16-0 | 16-4 | 16-9 | 17-1 |
| 475.00 | 15-5 | 15-10 | 16-3 | 16-8 | 17-1 | 17-6 | 17-10 | 18-3 | 18-7 | 19-0 |
| 500.00 | 17-1 | 17-6 | 18-0 | 18-6 | 18-11 | 19-4 | 19-10 | 20-3 | 20-8 | 21-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 |
| 275.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 300.00 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 |
| 325.00 | 7-10 | 7-11 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 |
| 350.00 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 |
| 375.00 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-4 | 11-6 | 11-8 | 11-10 |
| 400.00 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 |
| 425.00 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 | 14-5 | 14-7 | 14-10 | 15-0 | 15-2 |
| 450.00 | 15-0 | 15-3 | 15-6 | 15-8 | 15-11 | 16-2 | 16-5 | 16-7 | 16-10 | 17-0 |
| 475.00 | 16-9 | 17-0 | 17-3 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 19-0 |
| 500.00 | 18-6 | 18-10 | 19-1 | 19-5 | 19-8 | 19-11 | 20-3 | 20-6 | 20-9 | 21-0 |
| 525.00 | 20-5 | 20-9 | 21-1 | 21-5 | 21-8 | 22-0 | 22-4 | 22-7 | 22-11 | 23-2 |
| 550.00 | 22-5 | 22-9 | 23-2 | 23-6 | 23-10 | 24-2 | 24-6 | 24-10 | 25-2 | 25-5 |
| 575.00 | 24-6 | 24-11 | 25-3 | 25-8 | 26-0 | 26-5 | 26-9 | 27-1 | 27-6 | 27-10 |
| 600.00 | 26-8 | 27-1 | 27-6 | 27-11 | 28-4 | 28-9 | 29-2 | 29-6 | 29-11 | 30-4 |
| 625.00 | 29-0 | 29-5 | 29-11 | 30-4 | 30-9 | 31-3 | 31-8 | 32-1 | 32-6 | 32-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 275.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 300.00 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-10 |
| 325.00 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 |
| 350.00 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 |
| 375.00 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 | 12-3 |
| 400.00 | 12-4 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 |
| 425.00 | 14-0 | 14-2 | 14-4 | 14-7 | 14-9 | 15-0 | 15-2 | 15-4 | 15-6 | 15-9 |
| 450.00 | 15-8 | 15-11 | 16-1 | 16-4 | 16-7 | 16-9 | 17-0 | 17-2 | 17-5 | 17-7 |
| 475.00 | 17-5 | 17-9 | 18-0 | 18-3 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-8 |
| 500.00 | 19-4 | 19-8 | 19-11 | 20-2 | 20-5 | 20-9 | 21-0 | 21-3 | 21-6 | 21-9 |
| 525.00 | 21-4 | 21-8 | 21-11 | 22-3 | 22-7 | 22-10 | 23-2 | 23-5 | 23-9 | 24-0 |
| 550.00 | 23-5 | 23-9 | 24-1 | 24-5 | 24-9 | 25-1 | 25-5 | 25-9 | 26-0 | 26-4 |
| 575.00 | 25-7 | 26-0 | 26-4 | 26-9 | 27-1 | 27-5 | 27-9 | 28-2 | 28-6 | 28-10 |
| 600.00 | 27-11 | 28-3 | 28-8 | 29-1 | 29-6 | 29-10 | 30-3 | 30-8 | 31-0 | 31-5 |
| 625.00 | 30-3 | 30-8 | 31-2 | 31-7 | 32-0 | 32-5 | 32-10 | 33-3 | 33-8 | 34-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 0.86 | 1263 | 0.68 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 0.10 | 1396 | 0.08 | 1724 |
| 30 | 0 | 0 | 0 | 0.111 | 0.11 | 1298 | 0.08 | 1662 |
| 40 | 0 | 0 | 0 | 0.111 | 0.12 | 1201 | 0.09 | 1599 |
| 50 | 0 | 0 | 0 | 0.111 | 0.13 | 1103 | 0.09 | 1535 |
| 60 | 0 | 0 | 0 | 0.111 | 0.14 | 1006 | 0.09 | 1469 |
| 70 | 0 | 0 | 0 | 0.111 | 0.15 | 909 | 0.10 | 1403 |
| 80 | 0 | 0 | 0 | 0.111 | 0.17 | 812 | 0.10 | 1335 |
| 90 | 0 | 0 | 0 | 0.111 | 0.19 | 716 | 0.11 | 1266 |
| 100 | 0 | 0 | 0 | 0.111 | 0.22 | 621 | 0.12 | 1196 |
| 110 | 0 | 0 | 0 | 0.111 | 0.26 | 527 | 0.12 | 1126 |
| 120 | 0 | 0 | 0 | 0.111 | 0.32 | 436 | 0.13 | 1054 |
| 130 | 0 | 0 | 0 | 0.111 | 0.40 | 350 | 0.14 | 981 |
| 167 | 0 | 0 | 0 | 0.111 | 0.94 | 147 | 0.20 | 704 |
| 212 | 0 | 0 | 0 | 0.111 | 1.62 | 86 | 0.38 | 366 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 3.01 | 1450 | 2.73 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 0.44 | 1260 | 0.36 | 1531 |
| 30 | 0 | 0 | 0 | 0.111 | 0.48 | 1164 | 0.38 | 1466 |
| 40 | 0 | 0 | 0 | 0.111 | 0.52 | 1068 | 0.40 | 1400 |
| 50 | 0 | 0 | 0 | 0.111 | 0.57 | 973 | 0.42 | 1333 |
| 60 | 0 | 0 | 0 | 0.111 | 0.63 | 879 | 0.44 | 1264 |
| 70 | 0 | 0 | 0 | 0.111 | 0.71 | 787 | 0.46 | 1195 |
| 80 | 0 | 0 | 0 | 0.111 | 0.80 | 696 | 0.49 | 1125 |
| 90 | 0 | 0 | 0 | 0.111 | 0.91 | 609 | 0.53 | 1054 |
| 100 | 0 | 0 | 0 | 0.111 | 1.05 | 526 | 0.56 | 983 |
| 110 | 0 | 0 | 0 | 0.111 | 1.23 | 450 | 0.61 | 911 |
| 120 | 0 | 0 | 0 | 0.111 | 1.45 | 384 | 0.66 | 838 |
| 130 | 0 | 0 | 0 | 0.111 | 1.69 | 328 | 0.72 | 766 |
| 167 | 0 | 0 | 0 | 0.111 | 2.70 | 206 | 1.10 | 506 |
| 212 | 0 | 0 | 0 | 0.111 | 3.78 | 147 | 2.03 | 274 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 6.16 | 1597 | 6.15 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 1.24 | 1010 | 1.05 | 1192 |
| 30 | 0 | 0 | 0 | 0.111 | 1.36 | 920 | 1.11 | 1124 |
| 40 | 0 | 0 | 0 | 0.111 | 1.50 | 832 | 1.18 | 1054 |
| 50 | 0 | 0 | 0 | 0.111 | 1.67 | 747 | 1.27 | 985 |
| 60 | 0 | 0 | 0 | 0.111 | 1.87 | 666 | 1.36 | 915 |
| 70 | 0 | 0 | 0 | 0.111 | 2.11 | 591 | 1.48 | 846 |
| 80 | 0 | 0 | 0 | 0.111 | 2.39 | 523 | 1.61 | 778 |
| 90 | 0 | 0 | 0 | 0.111 | 2.70 | 463 | 1.76 | 710 |
| 100 | 0 | 0 | 0 | 0.111 | 3.03 | 412 | 1.94 | 645 |
| 110 | 0 | 0 | 0 | 0.111 | 3.39 | 369 | 2.14 | 583 |
| 120 | 0 | 0 | 0 | 0.111 | 3.75 | 333 | 2.38 | 525 |
| 130 | 0 | 0 | 0 | 0.111 | 4.11 | 304 | 2.65 | 472 |
| 167 | 0 | 0 | 0 | 0.111 | 5.38 | 232 | 3.83 | 326 |
| 212 | 0 | 0 | 0 | 0.111 | 6.73 | 186 | 5.33 | 235 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 10.95 | 1600 | 10.95 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 4.30 | 516 | 3.05 | 728 |
| 30 | 0 | 0 | 0 | 0.111 | 4.72 | 470 | 3.32 | 669 |
| 40 | 0 | 0 | 0 | 0.111 | 5.16 | 431 | 3.62 | 614 |
| 50 | 0 | 0 | 0 | 0.111 | 5.60 | 397 | 3.95 | 563 |
| 60 | 0 | 0 | 0 | 0.111 | 6.04 | 368 | 4.31 | 516 |
| 70 | 0 | 0 | 0 | 0.111 | 6.47 | 344 | 4.69 | 474 |
| 80 | 0 | 0 | 0 | 0.111 | 6.89 | 323 | 5.08 | 437 |
| 90 | 0 | 0 | 0 | 0.111 | 7.31 | 304 | 5.49 | 405 |
| 100 | 0 | 0 | 0 | 0.111 | 7.71 | 288 | 5.90 | 376 |
| 110 | 0 | 0 | 0 | 0.111 | 8.10 | 275 | 6.31 | 352 |
| 120 | 0 | 0 | 0 | 0.111 | 8.48 | 262 | 6.72 | 331 |
| 130 | 0 | 0 | 0 | 0.111 | 8.85 | 251 | 7.12 | 312 |
| 167 | 0 | 0 | 0 | 0.111 | 10.13 | 220 | 8.54 | 261 |
| 212 | 0 | 0 | 0 | 0.111 | 11.54 | 193 | 10.09 | 221 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.873 | 17.14 | 1600 | 17.14 | 1600* |
| 20 | 0 | 0 | 0 | 0.111 | 10.64 | 327 | 8.61 | 403 |
| 30 | 0 | 0 | 0 | 0.111 | 11.09 | 313 | 9.08 | 382 |
| 40 | 0 | 0 | 0 | 0.111 | 11.53 | 302 | 9.55 | 364 |
| 50 | 0 | 0 | 0 | 0.111 | 11.96 | 291 | 10.01 | 347 |
| 60 | 0 | 0 | 0 | 0.111 | 12.37 | 281 | 10.46 | 332 |
| 70 | 0 | 0 | 0 | 0.111 | 12.78 | 272 | 10.90 | 319 |
| 80 | 0 | 0 | 0 | 0.111 | 13.18 | 264 | 11.33 | 307 |
| 90 | 0 | 0 | 0 | 0.111 | 13.57 | 256 | 11.75 | 296 |
| 100 | 0 | 0 | 0 | 0.111 | 13.95 | 249 | 12.17 | 286 |
| 110 | 0 | 0 | 0 | 0.111 | 14.32 | 243 | 12.57 | 277 |
| 120 | 0 | 0 | 0 | 0.111 | 14.69 | 237 | 12.97 | 268 |
| 130 | 0 | 0 | 0 | 0.111 | 15.04 | 231 | 13.36 | 260 |
| 167 | 0 | 0 | 0 | 0.111 | 16.31 | 214 | 14.73 | 236 |
| 212 | 0 | 0 | 0 | 0.111 | 17.75 | 196 | 16.27 | 214 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.125

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 |
| 250.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.126

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 275.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 |
| 300.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 |
| 325.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 |
| 350.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 |
| 375.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 |
| 250.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 |
| 275.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 2-10 |
| 300.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-5 | 2-8 | 3-0 | 3-5 |
| 325.00 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-6 | 2-10 | 3-2 | 3-7 | 4-0 |
| 350.00 | 1-8 | 1-10 | 2-1 | 2-3 | 2-7 | 2-11 | 3-3 | 3-8 | 4-2 | 4-7 |
| 375.00 | 1-11 | 2-1 | 2-4 | 2-7 | 2-11 | 3-4 | 3-9 | 4-3 | 4-9 | 5-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 250.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 275.00 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 |
| 300.00 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 |
| 325.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 |
| 350.00 | 2-4 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-6 | 4-10 |
| 375.00 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-1 | 4-6 | 4-10 | 5-2 | 5-7 |
| 400.00 | 3-1 | 3-4 | 3-7 | 3-11 | 4-4 | 4-8 | 5-1 | 5-6 | 5-11 | 6-4 |
| 425.00 | 3-5 | 3-9 | 4-1 | 4-5 | 4-10 | 5-3 | 5-9 | 6-2 | 6-8 | 7-2 |
| 450.00 | 3-10 | 4-2 | 4-7 | 5-0 | 5-5 | 5-11 | 6-5 | 6-11 | 7-6 | 8-0 |
| 475.00 | 4-4 | 4-8 | 5-1 | 5-7 | 6-1 | 6-7 | 7-2 | 7-9 | 8-4 | 8-11 |
| 500.00 | 4-9 | 5-2 | 5-8 | 6-2 | 6-9 | 7-4 | 7-11 | 8-7 | 9-3 | 9-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 225.00 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 250.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 275.00 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 |
| 300.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 |
| 325.00 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 |
| 350.00 | 3-4 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 |
| 375.00 | 3-9 | 4-2 | 4-6 | 4-11 | 5-4 | 5-8 | 6-1 | 6-5 | 6-9 | 7-1 |
| 400.00 | 4-4 | 4-9 | 5-2 | 5-7 | 6-0 | 6-6 | 6-11 | 7-4 | 7-8 | 8-1 |
| 425.00 | 4-10 | 5-4 | 5-10 | 6-4 | 6-10 | 7-4 | 7-9 | 8-3 | 8-8 | 9-2 |
| 450.00 | 5-5 | 6-0 | 6-6 | 7-1 | 7-8 | 8-2 | 8-9 | 9-3 | 9-9 | 10-3 |
| 475.00 | 6-1 | 6-8 | 7-3 | 7-11 | 8-6 | 9-1 | 9-9 | 10-4 | 10-10 | 11-5 |
| 500.00 | 6-9 | 7-5 | 8-1 | 8-9 | 9-5 | 10-1 | 10-9 | 11-5 | 12-1 | 12-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.128

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 |
| 275.00 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 |
| 300.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 |
| 325.00 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 |
| 350.00 | 4-3 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 |
| 375.00 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-4 | 6-7 | 6-10 | 7-1 |
| 400.00 | 5-6 | 5-10 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 8-1 |
| 425.00 | 6-3 | 6-7 | 6-11 | 7-3 | 7-7 | 7-10 | 8-2 | 8-6 | 8-9 | 9-1 |
| 450.00 | 7-0 | 7-4 | 7-9 | 8-1 | 8-6 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 |
| 475.00 | 7-9 | 8-2 | 8-7 | 9-0 | 9-5 | 9-10 | 10-3 | 10-7 | 11-0 | 11-4 |
| 500.00 | 8-7 | 9-1 | 9-7 | 10-0 | 10-5 | 10-11 | 11-4 | 11-9 | 12-2 | 12-7 |
| 525.00 | 9-6 | 10-0 | 10-6 | 11-0 | 11-6 | 12-0 | 12-6 | 13-0 | 13-5 | 13-10 |
| 550.00 | 10-5 | 11-0 | 11-7 | 12-1 | 12-8 | 13-2 | 13-9 | 14-3 | 14-9 | 15-3 |
| 575.00 | 11-5 | 12-0 | 12-8 | 13-3 | 13-10 | 14-5 | 15-0 | 15-7 | 16-1 | 16-8 |
| 600.00 | 12-5 | 13-1 | 13-9 | 14-5 | 15-1 | 15-8 | 16-4 | 16-11 | 17-6 | 18-1 |
| 625.00 | 13-6 | 14-2 | 14-11 | 15-8 | 16-4 | 17-0 | 17-9 | 18-4 | 19-0 | 19-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 |
| 275.00 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 |
| 300.00 | 3-10 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 |
| 325.00 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 350.00 | 5-3 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 |
| 375.00 | 6-0 | 6-3 | 6-6 | 6-9 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 |
| 400.00 | 6-10 | 7-1 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 |
| 425.00 | 7-8 | 8-0 | 8-4 | 8-8 | 8-11 | 9-3 | 9-6 | 9-10 | 10-1 | 10-4 |
| 450.00 | 8-7 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 | 11-7 |
| 475.00 | 9-7 | 10-0 | 10-5 | 10-9 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 |
| 500.00 | 10-8 | 11-1 | 11-6 | 11-11 | 12-4 | 12-9 | 13-2 | 13-7 | 13-11 | 14-4 |
| 525.00 | 11-9 | 12-3 | 12-9 | 13-2 | 13-8 | 14-1 | 14-6 | 15-0 | 15-5 | 15-9 |
| 550.00 | 12-11 | 13-5 | 13-11 | 14-6 | 15-0 | 15-6 | 15-11 | 16-5 | 16-11 | 17-4 |
| 575.00 | 14-1 | 14-8 | 15-3 | 15-10 | 16-4 | 16-11 | 17-5 | 17-11 | 18-5 | 18-11 |
| 600.00 | 15-4 | 16-0 | 16-7 | 17-3 | 17-10 | 18-5 | 19-0 | 19-7 | 20-1 | 20-8 |
| 625.00 | 16-8 | 17-4 | 18-0 | 18-8 | 19-4 | 20-0 | 20-7 | 21-3 | 21-10 | 22-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 0.78 | 1396 | 0.68 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 0.09 | 1461 | 0.08 | 1662 |
| 30 | 0 | 0 | 0 | 0.111 | 0.12 | 1168 | 0.09 | 1469 |
| 40 | 0 | 0 | 0 | 0.111 | 0.13 | 1071 | 0.1 | 1403 |
| 50 | 0 | 0 | 0 | 0.111 | 0.14 | 974 | 0.1 | 1335 |
| 60 | 0 | 0 | 0 | 0.111 | 0.16 | 877 | 0.11 | 1266 |
| 70 | 0 | 0 | 0 | 0.111 | 0.18 | 780 | 0.12 | 1196 |
| 80 | 0 | 0 | 0 | 0.111 | 0.2 | 684 | 0.12 | 1126 |
| 90 | 0 | 0 | 0 | 0.111 | 0.24 | 589 | 0.13 | 1054 |
| 100 | 0 | 0 | 0 | 0.111 | 0.28 | 496 | 0.14 | 981 |
| 110 | 0 | 0 | 0 | 0.111 | 0.34 | 407 | 0.15 | 907 |
| 120 | 0 | 0 | 0 | 0.111 | 0.43 | 323 | 0.17 | 833 |
| 130 | 0 | 0 | 0 | 0.111 | 0.55 | 252 | 0.18 | 757 |
| 167 | 0 | 0 | 0 | 0.111 | 1.17 | 119 | 0.29 | 477 |
| 212 | 0 | 0 | 0 | 0.111 | 1.79 | 78 | 0.73 | 191 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 2.83 | 1543 | 2.73 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 0.42 | 1313 | 0.38 | 1466 |
| 30 | 0 | 0 | 0 | 0.111 | 0.54 | 1025 | 0.44 | 1264 |
| 40 | 0 | 0 | 0 | 0.111 | 0.6 | 930 | 0.46 | 1195 |
| 50 | 0 | 0 | 0 | 0.111 | 0.66 | 837 | 0.49 | 1125 |
| 60 | 0 | 0 | 0 | 0.111 | 0.75 | 745 | 0.53 | 1054 |
| 70 | 0 | 0 | 0 | 0.111 | 0.85 | 656 | 0.56 | 983 |
| 80 | 0 | 0 | 0 | 0.111 | 0.97 | 570 | 0.61 | 911 |
| 90 | 0 | 0 | 0 | 0.111 | 1.13 | 490 | 0.66 | 838 |
| 100 | 0 | 0 | 0 | 0.111 | 1.33 | 419 | 0.72 | 766 |
| 110 | 0 | 0 | 0 | 0.111 | 1.56 | 357 | 0.8 | 694 |
| 120 | 0 | 0 | 0 | 0.111 | 1.81 | 306 | 0.89 | 623 |
| 130 | 0 | 0 | 0 | 0.111 | 2.09 | 266 | 1 | 553 |
| 167 | 0 | 0 | 0 | 0.111 | 3.07 | 181 | 1.66 | 334 |
| 212 | 0 | 0 | 0 | 0.111 | 4.09 | 136 | 2.81 | 198 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 6.15 | 1600 | 6.15 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 1.35 | 925 | 1.11 | 1124 |
| 30 | 0 | 0 | 0 | 0.111 | 1.86 | 671 | 1.36 | 915 |
| 40 | 0 | 0 | 0 | 0.111 | 2.1 | 596 | 1.48 | 846 |
| 50 | 0 | 0 | 0 | 0.111 | 2.37 | 527 | 1.61 | 778 |
| 60 | 0 | 0 | 0 | 0.111 | 2.68 | 467 | 1.76 | 710 |
| 70 | 0 | 0 | 0 | 0.111 | 3.01 | 415 | 1.94 | 645 |
| 80 | 0 | 0 | 0 | 0.111 | 3.37 | 371 | 2.14 | 583 |
| 90 | 0 | 0 | 0 | 0.111 | 3.73 | 335 | 2.38 | 525 |
| 100 | 0 | 0 | 0 | 0.111 | 4.09 | 306 | 2.65 | 472 |
| 110 | 0 | 0 | 0 | 0.111 | 4.45 | 281 | 2.94 | 424 |
| 120 | 0 | 0 | 0 | 0.111 | 4.79 | 261 | 3.26 | 383 |
| 130 | 0 | 0 | 0 | 0.111 | 5.13 | 244 | 3.59 | 348 |
| 167 | 0 | 0 | 0 | 0.111 | 6.28 | 199 | 4.84 | 258 |
| 212 | 0 | 0 | 0 | 0.111 | 7.51 | 167 | 6.24 | 201 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 10.95 | 1600 | 10.95 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 4.72 | 470 | 3.32 | 669 |
| 30 | 0 | 0 | 0 | 0.111 | 6.04 | 368 | 4.31 | 516 |
| 40 | 0 | 0 | 0 | 0.111 | 6.47 | 344 | 4.69 | 474 |
| 50 | 0 | 0 | 0 | 0.111 | 6.89 | 323 | 5.08 | 437 |
| 60 | 0 | 0 | 0 | 0.111 | 7.31 | 304 | 5.49 | 405 |
| 70 | 0 | 0 | 0 | 0.111 | 7.71 | 288 | 5.9 | 376 |
| 80 | 0 | 0 | 0 | 0.111 | 8.1 | 275 | 6.31 | 352 |
| 90 | 0 | 0 | 0 | 0.111 | 8.48 | 262 | 6.72 | 331 |
| 100 | 0 | 0 | 0 | 0.111 | 8.85 | 251 | 7.12 | 312 |
| 110 | 0 | 0 | 0 | 0.111 | 9.21 | 242 | 7.52 | 296 |
| 120 | 0 | 0 | 0 | 0.111 | 9.56 | 233 | 7.9 | 281 |
| 130 | 0 | 0 | 0 | 0.111 | 9.9 | 225 | 8.28 | 269 |
| 167 | 0 | 0 | 0 | 0.111 | 11.09 | 201 | 9.59 | 232 |
| 212 | 0 | 0 | 0 | 0.111 | 12.41 | 180 | 11.04 | 202 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 17.14 | 1600 | 17.14 | 1600* |
| 0 | 0 | 0 | 0 | 0.111 | 11.09 | 313 | 9.08 | 382 |
| 30 | 0 | 0 | 0 | 0.111 | 12.37 | 281 | 10.46 | 332 |
| 40 | 0 | 0 | 0 | 0.111 | 12.78 | 272 | 10.9 | 319 |
| 50 | 0 | 0 | 0 | 0.111 | 13.18 | 264 | 11.33 | 307 |
| 60 | 0 | 0 | 0 | 0.111 | 13.57 | 256 | 11.75 | 296 |
| 70 | 0 | 0 | 0 | 0.111 | 13.95 | 249 | 12.17 | 286 |
| 80 | 0 | 0 | 0 | 0.111 | 14.32 | 243 | 12.57 | 277 |
| 90 | 0 | 0 | 0 | 0.111 | 14.69 | 237 | 12.97 | 268 |
| 100 | 0 | 0 | 0 | 0.111 | 15.04 | 231 | 13.36 | 260 |
| 110 | 0 | 0 | 0 | 0.111 | 15.4 | 226 | 13.74 | 253 |
| 120 | 0 | 0 | 0 | 0.111 | 15.74 | 221 | 14.11 | 247 |
| 130 | 0 | 0 | 0 | 0.111 | 16.08 | 217 | 14.47 | 240 |
| 167 | 0 | 0 | 0 | 0.111 | 17.28 | 202 | 15.77 | 221 |
| 212 | 0 | 0 | 0 | 0.111 | 18.65 | 187 | 17.23 | 202 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 | 0-9 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-9 | 0-10 | 1-1 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

OH814.133

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 2-0 |
| 250.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-1 | 2-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 |
| 250.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 |
| 300.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 |
| 325.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-10 | 3-1 | 3-5 |
| 350.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 4-0 |
| 375.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-4 | 3-9 | 4-2 | 4-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 |
| 225.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 | 2-6 |
| 250.00 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 |
| 275.00 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-10 | 3-2 | 3-5 | 3-9 |
| 300.00 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 3-0 | 3-4 | 3-9 | 4-1 | 4-5 |
| 325.00 | 1-11 | 2-2 | 2-6 | 2-9 | 3-2 | 3-6 | 3-11 | 4-4 | 4-10 | 5-3 |
| 350.00 | 2-3 | 2-6 | 2-10 | 3-3 | 3-8 | 4-1 | 4-7 | 5-1 | 5-7 | 6-1 |
| 375.00 | 2-7 | 2-11 | 3-3 | 3-8 | 4-2 | 4-8 | 5-3 | 5-10 | 6-5 | 6-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 |
| 225.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 |
| 250.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 |
| 275.00 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-7 |
| 300.00 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 |
| 325.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 |
| 350.00 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 | 5-5 | 5-9 |
| 375.00 | 3-6 | 3-9 | 4-1 | 4-6 | 4-10 | 5-2 | 5-7 | 5-11 | 6-3 | 6-7 |
| 400.00 | 3-11 | 4-4 | 4-8 | 5-1 | 5-6 | 5-11 | 6-4 | 6-9 | 7-1 | 7-6 |
| 425.00 | 4-5 | 4-10 | 5-3 | 5-9 | 6-2 | 6-8 | 7-2 | 7-7 | 8-1 | 8-6 |
| 450.00 | 5-0 | 5-5 | 5-11 | 6-5 | 6-11 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 |
| 475.00 | 5-7 | 6-1 | 6-7 | 7-2 | 7-9 | 8-4 | 8-11 | 9-6 | 10-1 | 10-7 |
| 500.00 | 6-2 | 6-9 | 7-4 | 7-11 | 8-7 | 9-3 | 9-10 | 10-6 | 11-2 | 11-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 |
| 225.00 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 |
| 250.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 |
| 275.00 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 |
| 300.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 | 4-9 | 5-0 | 5-2 |
| 325.00 | 3-8 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 |
| 350.00 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-1 |
| 375.00 | 4-11 | 5-4 | 5-8 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-9 | 8-1 |
| 400.00 | 5-7 | 6-0 | 6-6 | 6-11 | 7-4 | 7-8 | 8-1 | 8-6 | 8-10 | 9-3 |
| 425.00 | 6-4 | 6-10 | 7-4 | 7-9 | 8-3 | 8-8 | 9-2 | 9-7 | 10-0 | 10-5 |
| 450.00 | 7-1 | 7-8 | 8-2 | 8-9 | 9-3 | 9-9 | 10-3 | 10-9 | 11-2 | 11-8 |
| 475.00 | 7-11 | 8-6 | 9-1 | 9-9 | 10-4 | 10-10 | 11-5 | 12-0 | 12-6 | 13-0 |
| 500.00 | 8-9 | 9-5 | 10-1 | 10-9 | 11-5 | 12-1 | 12-8 | 13-3 | 13-10 | 14-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 |
| 275.00 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 |
| 300.00 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-10 | 4-11 |
| 325.00 | 4-3 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 |
| 350.00 | 4-11 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 | 6-9 |
| 375.00 | 5-8 | 5-11 | 6-2 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-6 | 7-9 |
| 400.00 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 8-1 | 8-4 | 8-7 | 8-9 |
| 425.00 | 7-3 | 7-7 | 7-10 | 8-2 | 8-6 | 8-9 | 9-1 | 9-4 | 9-8 | 9-11 |
| 450.00 | 8-1 | 8-6 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 | 11-1 |
| 475.00 | 9-0 | 9-5 | 9-10 | 10-3 | 10-7 | 11-0 | 11-4 | 11-8 | 12-1 | 12-5 |
| 500.00 | 10-0 | 10-5 | 10-11 | 11-4 | 11-9 | 12-2 | 12-7 | 13-0 | 13-4 | 13-9 |
| 525.00 | 11-0 | 11-6 | 12-0 | 12-6 | 13-0 | 13-5 | 13-10 | 14-4 | 14-9 | 15-2 |
| 550.00 | 12-1 | 12-8 | 13-2 | 13-9 | 14-3 | 14-9 | 15-3 | 15-8 | 16-2 | 16-7 |
| 575.00 | 13-3 | 13-10 | 14-5 | 15-0 | 15-7 | 16-1 | 16-8 | 17-2 | 17-8 | 18-2 |
| 600.00 | 14-5 | 15-1 | 15-8 | 16-4 | 16-11 | 17-6 | 18-1 | 18-8 | 19-3 | 19-9 |
| 625.00 | 15-8 | 16-4 | 17-0 | 17-9 | 18-4 | 19-0 | 19-8 | 20-3 | 20-11 | 21-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 |
| 300.00 | 4-4 | 4-5 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 |
| 325.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 |
| 350.00 | 5-10 | 6-1 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 |
| 375.00 | 6-9 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-3 | 8-5 | 8-8 |
| 400.00 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-7 | 9-10 |
| 425.00 | 8-8 | 8-11 | 9-3 | 9-6 | 9-10 | 10-1 | 10-4 | 10-7 | 10-10 | 11-1 |
| 450.00 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 | 11-7 | 11-11 | 12-2 | 12-6 |
| 475.00 | 10-9 | 11-2 | 11-6 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-7 | 13-11 |
| 500.00 | 11-11 | 12-4 | 12-9 | 13-2 | 13-7 | 13-11 | 14-4 | 14-8 | 15-1 | 15-5 |
| 525.00 | 13-2 | 13-8 | 14-1 | 14-6 | 15-0 | 15-5 | 15-9 | 16-2 | 16-7 | 17-0 |
| 550.00 | 14-6 | 15-0 | 15-6 | 15-11 | 16-5 | 16-11 | 17-4 | 17-9 | 18-3 | 18-8 |
| 575.00 | 15-10 | 16-4 | 16-11 | 17-5 | 17-11 | 18-5 | 18-11 | 19-5 | 19-11 | 20-4 |
| 600.00 | 17-3 | 17-10 | 18-5 | 19-0 | 19-7 | 20-1 | 20-8 | 21-2 | 21-8 | 22-2 |
| 625.00 | 18-8 | 19-4 | 20-0 | 20-7 | 21-3 | 21-10 | 22-5 | 23-0 | 23-6 | 24-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1600 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 0.72 | 1525 | 0.61 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.09 | 1610 | 0.07 | 1871 |
| 30 | 0 | 0 | 0 | 0.111 | 0.11 | 1317 | 0.08 | 1690 |
| 40 | 0 | 0 | 0 | 0.111 | 0.11 | 1220 | 0.09 | 1627 |
| 50 | 0 | 0 | 0 | 0.111 | 0.12 | 1122 | 0.09 | 1564 |
| 60 | 0 | 0 | 0 | 0.111 | 0.14 | 1025 | 0.09 | 1499 |
| 70 | 0 | 0 | 0 | 0.111 | 0.15 | 928 | 0.10 | 1433 |
| 80 | 0 | 0 | 0 | 0.111 | 0.17 | 831 | 0.10 | 1366 |
| 90 | 0 | 0 | 0 | 0.111 | 0.19 | 735 | 0.11 | 1297 |
| 100 | 0 | 0 | 0 | 0.111 | 0.22 | 639 | 0.11 | 1228 |
| 110 | 0 | 0 | 0 | 0.111 | 0.25 | 545 | 0.12 | 1158 |
| 120 | 0 | 0 | 0 | 0.111 | 0.31 | 453 | 0.13 | 1086 |
| 130 | 0 | 0 | 0 | 0.111 | 0.38 | 366 | 0.14 | 1014 |
| 167 | 0 | 0 | 0 | 0.111 | 0.91 | 153 | 0.19 | 739 |
| 212 | 0 | 0 | 0 | 0.111 | 1.60 | 87 | 0.35 | 399 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 2.61 | 1672 | 2.43 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.37 | 1503 | 0.32 | 1726 |
| 30 | 0 | 0 | 0 | 0.111 | 0.46 | 1213 | 0.36 | 1538 |
| 40 | 0 | 0 | 0 | 0.111 | 0.50 | 1117 | 0.38 | 1473 |
| 50 | 0 | 0 | 0 | 0.111 | 0.54 | 1022 | 0.39 | 1407 |
| 60 | 0 | 0 | 0 | 0.111 | 0.60 | 927 | 0.41 | 1340 |
| 70 | 0 | 0 | 0 | 0.111 | 0.67 | 834 | 0.44 | 1271 |
| 80 | 0 | 0 | 0 | 0.111 | 0.75 | 742 | 0.46 | 1202 |
| 90 | 0 | 0 | 0 | 0.111 | 0.85 | 653 | 0.49 | 1132 |
| 100 | 0 | 0 | 0 | 0.111 | 0.98 | 568 | 0.52 | 1062 |
| 110 | 0 | 0 | 0 | 0.111 | 1.14 | 488 | 0.56 | 990 |
| 120 | 0 | 0 | 0 | 0.111 | 1.33 | 416 | 0.60 | 918 |
| 130 | 0 | 0 | 0 | 0.111 | 1.56 | 355 | 0.66 | 846 |
| 167 | 0 | 0 | 0 | 0.111 | 2.56 | 217 | 0.96 | 581 |
| 212 | 0 | 0 | 0 | 0.111 | 3.67 | 151 | 1.75 | 316 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 5.47 | 1800 | 5.47 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 0.96 | 1296 | 0.85 | 1473 |
| 30 | 0 | 0 | 0 | 0.111 | 1.23 | 1016 | 0.98 | 1274 |
| 40 | 0 | 0 | 0 | 0.111 | 1.35 | 926 | 1.04 | 1206 |
| 50 | 0 | 0 | 0 | 0.111 | 1.49 | 837 | 1.10 | 1137 |
| 60 | 0 | 0 | 0 | 0.111 | 1.66 | 752 | 1.17 | 1068 |
| 70 | 0 | 0 | 0 | 0.111 | 1.86 | 671 | 1.25 | 998 |
| 80 | 0 | 0 | 0 | 0.111 | 2.10 | 596 | 1.34 | 929 |
| 90 | 0 | 0 | 0 | 0.111 | 2.37 | 527 | 1.45 | 860 |
| 100 | 0 | 0 | 0 | 0.111 | 2.68 | 467 | 1.58 | 791 |
| 110 | 0 | 0 | 0 | 0.111 | 3.01 | 415 | 1.73 | 724 |
| 120 | 0 | 0 | 0 | 0.111 | 3.36 | 371 | 1.90 | 658 |
| 130 | 0 | 0 | 0 | 0.111 | 3.73 | 335 | 2.10 | 595 |
| 167 | 0 | 0 | 0 | 0.111 | 5.03 | 249 | 3.10 | 403 |
| 212 | 0 | 0 | 0 | 0.111 | 6.43 | 195 | 4.61 | 271 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 9.73 | 1800 | 9.73 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 2.74 | 812 | 2.01 | 1102 |
| 30 | 0 | 0 | 0 | 0.111 | 3.69 | 601 | 2.46 | 902 |
| 40 | 0 | 0 | 0 | 0.111 | 4.08 | 544 | 2.65 | 837 |
| 50 | 0 | 0 | 0 | 0.111 | 4.49 | 494 | 2.87 | 774 |
| 60 | 0 | 0 | 0 | 0.111 | 4.92 | 451 | 3.12 | 713 |
| 70 | 0 | 0 | 0 | 0.111 | 5.36 | 414 | 3.39 | 654 |
| 80 | 0 | 0 | 0 | 0.111 | 5.80 | 383 | 3.70 | 600 |
| 90 | 0 | 0 | 0 | 0.111 | 6.23 | 356 | 4.04 | 550 |
| 100 | 0 | 0 | 0 | 0.111 | 6.66 | 334 | 4.40 | 504 |
| 110 | 0 | 0 | 0 | 0.111 | 7.08 | 314 | 4.79 | 464 |
| 120 | 0 | 0 | 0 | 0.111 | 7.49 | 297 | 5.19 | 428 |
| 130 | 0 | 0 | 0 | 0.111 | 7.89 | 282 | 5.60 | 397 |
| 167 | 0 | 0 | 0 | 0.111 | 9.26 | 240 | 7.11 | 313 |
| 212 | 0 | 0 | 0 | 0.111 | 10.76 | 207 | 8.81 | 252 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 0.873 | 15.22 | 1800 | 15.22 | 1800* |
| 0 | 0 | 0 | 0 | 0.111 | 7.45 | 466 | 5.12 | 678 |
| 30 | 0 | 0 | 0 | 0.111 | 8.96 | 387 | 6.38 | 544 |
| 40 | 0 | 0 | 0 | 0.111 | 9.45 | 368 | 6.84 | 507 |
| 50 | 0 | 0 | 0 | 0.111 | 9.93 | 350 | 7.31 | 475 |
| 60 | 0 | 0 | 0 | 0.111 | 10.39 | 334 | 7.79 | 446 |
| 70 | 0 | 0 | 0 | 0.111 | 10.85 | 320 | 8.26 | 420 |
| 80 | 0 | 0 | 0 | 0.111 | 11.29 | 308 | 8.74 | 397 |
| 90 | 0 | 0 | 0 | 0.111 | 11.73 | 296 | 9.21 | 377 |
| 100 | 0 | 0 | 0 | 0.111 | 12.15 | 286 | 9.67 | 359 |
| 110 | 0 | 0 | 0 | 0.111 | 12.56 | 277 | 10.13 | 343 |
| 120 | 0 | 0 | 0 | 0.111 | 12.96 | 268 | 10.58 | 329 |
| 130 | 0 | 0 | 0 | 0.111 | 13.36 | 260 | 11.02 | 316 |
| 167 | 0 | 0 | 0 | 0.111 | 14.74 | 236 | 12.56 | 277 |
| 212 | 0 | 0 | 0 | 0.111 | 16.30 | 214 | 14.28 | 244 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 |
| 225.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.142

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 275.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 300.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 |
| 350.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 375.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 |
| 250.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 |
| 275.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 |
| 300.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 3-0 |
| 325.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-6 | 2-9 | 3-2 | 3-6 |
| 350.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 | 3-3 | 3-8 | 4-1 |
| 375.00 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-11 | 3-3 | 3-8 | 4-2 | 4-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.143

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 |
| 250.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 |
| 300.00 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 |
| 325.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 |
| 350.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 |
| 375.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-3 |
| 400.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-5 | 4-9 |
| 425.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-7 | 5-0 | 5-5 |
| 450.00 | 2-11 | 3-1 | 3-4 | 3-8 | 3-11 | 4-4 | 4-8 | 5-1 | 5-7 | 6-1 |
| 475.00 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-3 | 5-8 | 6-3 | 6-9 |
| 500.00 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-4 | 5-9 | 6-4 | 6-11 | 7-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 225.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 |
| 250.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 275.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 |
| 300.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 |
| 325.00 | 2-2 | 2-5 | 2-8 | 3-0 | 3-3 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 |
| 350.00 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 |
| 375.00 | 2-11 | 3-3 | 3-7 | 3-11 | 4-4 | 4-9 | 5-1 | 5-6 | 5-10 | 6-3 |
| 400.00 | 3-4 | 3-8 | 4-1 | 4-6 | 4-11 | 5-4 | 5-10 | 6-3 | 6-8 | 7-1 |
| 425.00 | 3-9 | 4-2 | 4-7 | 5-1 | 5-7 | 6-1 | 6-7 | 7-0 | 7-6 | 8-0 |
| 450.00 | 4-3 | 4-8 | 5-2 | 5-8 | 6-3 | 6-9 | 7-4 | 7-11 | 8-5 | 9-0 |
| 475.00 | 4-8 | 5-3 | 5-9 | 6-4 | 6-11 | 7-7 | 8-2 | 8-10 | 9-5 | 10-0 |
| 500.00 | 5-3 | 5-9 | 6-5 | 7-0 | 7-8 | 8-5 | 9-1 | 9-9 | 10-5 | 11-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.144

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 |
| 275.00 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 |
| 300.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 325.00 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 |
| 350.00 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 5-0 |
| 375.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 |
| 400.00 | 3-10 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 |
| 425.00 | 4-3 | 4-7 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 |
| 450.00 | 4-10 | 5-2 | 5-6 | 5-11 | 6-4 | 6-8 | 7-1 | 7-6 | 7-10 | 8-2 |
| 475.00 | 5-4 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-11 | 8-4 | 8-9 | 9-2 |
| 500.00 | 5-11 | 6-5 | 6-10 | 7-4 | 7-9 | 8-3 | 8-9 | 9-3 | 9-8 | 10-2 |
| 525.00 | 6-7 | 7-0 | 7-6 | 8-1 | 8-7 | 9-1 | 9-8 | 10-2 | 10-8 | 11-2 |
| 550.00 | 7-2 | 7-9 | 8-3 | 8-10 | 9-5 | 10-0 | 10-7 | 11-2 | 11-8 | 12-3 |
| 575.00 | 7-10 | 8-5 | 9-1 | 9-8 | 10-4 | 10-11 | 11-7 | 12-2 | 12-10 | 13-5 |
| 600.00 | 8-7 | 9-2 | 9-10 | 10-6 | 11-3 | 11-11 | 12-7 | 13-3 | 13-11 | 14-7 |
| 625.00 | 9-3 | 10-0 | 10-8 | 11-5 | 12-2 | 12-11 | 13-8 | 14-5 | 15-1 | 15-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 |
| 275.00 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 |
| 300.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 |
| 325.00 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-2 | 5-4 |
| 350.00 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 |
| 375.00 | 4-9 | 5-0 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 |
| 400.00 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 | 8-0 |
| 425.00 | 6-1 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 | 8-6 | 8-9 | 9-1 |
| 450.00 | 6-10 | 7-3 | 7-8 | 8-0 | 8-5 | 8-9 | 9-2 | 9-6 | 9-10 | 10-2 |
| 475.00 | 7-8 | 8-1 | 8-6 | 9-0 | 9-5 | 9-9 | 10-2 | 10-7 | 11-0 | 11-4 |
| 500.00 | 8-6 | 9-0 | 9-5 | 9-11 | 10-5 | 10-10 | 11-4 | 11-9 | 12-2 | 12-7 |
| 525.00 | 9-4 | 9-11 | 10-5 | 10-11 | 11-6 | 12-0 | 12-5 | 12-11 | 13-5 | 13-10 |
| 550.00 | 10-3 | 10-10 | 11-5 | 12-0 | 12-7 | 13-2 | 13-8 | 14-2 | 14-8 | 15-2 |
| 575.00 | 11-2 | 11-10 | 12-6 | 13-2 | 13-9 | 14-4 | 14-11 | 15-6 | 16-1 | 16-7 |
| 600.00 | 12-2 | 12-11 | 13-7 | 14-4 | 15-0 | 15-8 | 16-3 | 16-11 | 17-6 | 18-1 |
| 625.00 | 13-3 | 14-0 | 14-9 | 15-6 | 16-3 | 16-11 | 17-8 | 18-4 | 19-0 | 19-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/16/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 - 3/4 AWAC CONDUCTOR.
CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 HEAVY LOADING CONDITION

1000 LB TENSION ---------- 815.2
1500 LB TENSION ---------- 815.10
2000 LB TENSION ---------- 815.18
2500 LB TENSION ---------- 815.26
3000 LB TENSION ---------- 815.34
3500 LB TENSION ---------- 815.42

SDG&E EXTRA HEAVY LOADING CONDITION

1000 LB TENSION ---------- 815.50
1500 LB TENSION ---------- 815.58
2000 LB TENSION ---------- 815.66
2500 LB TENSION ---------- 815.74
3000 LB TENSION ---------- 815.82
3500 LB TENSION ---------- 815.90

65 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 815.98
1500 LB TENSION ---------- 815.106
2000 LB TENSION ---------- 815.114
2500 LB TENSION ---------- 815.122
3000 LB TENSION ---------- 815.130
3500 LB TENSION ---------- 815.138

85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 815.146
1500 LB TENSION ---------- 815.154
2000 LB TENSION ---------- 815.162
2500 LB TENSION ---------- 815.170
3000 LB TENSION ---------- 815.178
3500 LB TENSION ---------- 815.186

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION ---------- 815.194
1500 LB TENSION ---------- 815.202
2000 LB TENSION ---------- 815.210
2500 LB TENSION ---------- 815.218
3000 LB TENSION ---------- 815.226
3500 LB TENSION ---------- 815.234


**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#2 - 3/4 AWAC TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 1.28 | 1000 | 1.28 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.58 | 427 | 0.55 | 451 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.92 | 266 | 0.88 | 279 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.04 | 237 | 1.00 | 246 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.15 | 214 | 1.12 | 221 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.26 | 196 | 1.22 | 201 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.36 | 181 | 1.33 | 186 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.45 | 170 | 1.43 | 173 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.54 | 160 | 1.51 | 163 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.63 | 151 | 1.59 | 155 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.71 | 144 | 1.67 | 148 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.78 | 138 | 1.74 | 142 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.85 | 133 | 1.81 | 136 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.10 | 118 | 2.06 | 120 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.36 | 104 | 2.33 | 106 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 5.11 | 1000 | 5.11 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.37 | 226 | 4.31 | 229 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.74 | 208 | 4.70 | 210 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.86 | 203 | 4.82 | 205 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.98 | 198 | 4.94 | 200 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.09 | 194 | 5.06 | 195 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.20 | 190 | 5.17 | 191 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.31 | 186 | 5.28 | 187 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.42 | 182 | 5.38 | 183 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.53 | 179 | 5.48 | 180 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.63 | 176 | 5.58 | 177 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.72 | 173 | 5.67 | 174 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.81 | 170 | 5.76 | 172 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.14 | 161 | 6.09 | 162 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.52 | 152 | 6.47 | 153 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 11.54 | 1000 | 11.54 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.81 | 206 | 10.76 | 207 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.17 | 199 | 11.12 | 200 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.29 | 197 | 11.24 | 198 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.40 | 195 | 11.36 | 196 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.52 | 194 | 11.48 | 194 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.63 | 192 | 11.60 | 192 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.75 | 190 | 11.71 | 190 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.86 | 188 | 11.82 | 189 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.97 | 186 | 11.92 | 187 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.07 | 185 | 12.02 | 186 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.17 | 183 | 12.12 | 184 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.27 | 182 | 12.22 | 183 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.63 | 177 | 12.58 | 177 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.06 | 171 | 13.01 | 172 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 20.61 | 1000 | 20.61 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 19.89 | 200 | 19.83 | 201 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.24 | 197 | 20.19 | 197 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.36 | 196 | 20.31 | 196 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.47 | 194 | 20.43 | 195 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.59 | 193 | 20.55 | 194 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.70 | 192 | 20.67 | 193 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.82 | 191 | 20.79 | 192 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.93 | 190 | 20.90 | 191 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.04 | 189 | 21.00 | 190 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.15 | 188 | 21.10 | 189 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.26 | 187 | 21.20 | 188 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.36 | 187 | 21.30 | 187 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.73 | 183 | 21.68 | 184 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 22.17 | 180 | 22.12 | 180 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 32.40 | 1000 | 32.40 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.68 | 197 | 31.63 | 198 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.03 | 195 | 31.98 | 196 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.15 | 195 | 32.10 | 195 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.26 | 194 | 32.22 | 194 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.38 | 193 | 32.34 | 194 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.49 | 193 | 32.46 | 193 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.61 | 192 | 32.58 | 192 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.72 | 191 | 32.69 | 192 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.84 | 191 | 32.79 | 191 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.95 | 190 | 32.89 | 190 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 33.05 | 190 | 33.00 | 190 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 33.15 | 189 | 33.10 | 189 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 33.53 | 187 | 33.48 | 187 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 33.99 | 184 | 33.94 | 185 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-9 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 1-2 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 |
| 150.00 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 |
| 175.00 | 2-4 | 2-8 | 3-1 | 3-5 | 3-9 | 4-1 | 4-4 | 4-8 | 4-10 | 5-1 |
| 200.00 | 3-1 | 3-6 | 4-0 | 4-6 | 4-11 | 5-4 | 5-9 | 6-1 | 6-4 | 6-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 100.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 125.00 | 1-3 | 1-5 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 |
| 150.00 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 |
| 175.00 | 2-6 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-5 | 4-9 | 5-0 | 5-3 |
| 200.00 | 3-3 | 3-8 | 4-2 | 4-7 | 5-0 | 5-5 | 5-10 | 6-2 | 6-6 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.5

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 |
| 150.00 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 |
| 175.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-1 | 4-1 | 4-2 | 4-3 |
| 200.00 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 |
| 225.00 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 |
| 250.00 | 7-2 | 7-4 | 7-6 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 |
| 125.00 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 |
| 150.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 |
| 175.00 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 200.00 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 |
| 225.00 | 5-10 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 |
| 250.00 | 7-3 | 7-5 | 7-7 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 |
| 175.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 |
| 200.00 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 |
| 225.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 |
| 250.00 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 |
| 275.00 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 |
| 300.00 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-0 |
| 325.00 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 | 14-0 | 14-1 |
| 350.00 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 15-11 | 16-1 | 16-3 | 16-5 |
| 375.00 | 17-3 | 17-5 | 17-7 | 17-9 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 |
| 175.00 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 |
| 200.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 225.00 | 6-3 | 6-3 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 |
| 250.00 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 |
| 275.00 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 |
| 300.00 | 11-1 | 11-2 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 |
| 325.00 | 13-0 | 13-1 | 13-3 | 13-5 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 | 14-2 |
| 350.00 | 15-1 | 15-3 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-4 | 16-5 |
| 375.00 | 17-3 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-7 | 18-9 | 18-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 |
| 225.00 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 |
| 250.00 | 7-10 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 |
| 275.00 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 |
| 300.00 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-9 | 11-10 | 11-10 |
| 325.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-11 |
| 350.00 | 15-4 | 15-5 | 15-6 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 |
| 375.00 | 17-8 | 17-9 | 17-10 | 17-11 | 18-1 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 |
| 400.00 | 20-1 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 | 20-9 | 20-11 | 21-0 | 21-1 |
| 425.00 | 22-8 | 22-10 | 22-11 | 23-1 | 23-3 | 23-4 | 23-6 | 23-7 | 23-9 | 23-10 |
| 450.00 | 25-5 | 25-7 | 25-9 | 25-11 | 26-0 | 26-2 | 26-4 | 26-6 | 26-7 | 26-9 |
| 475.00 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-4 | 29-6 | 29-8 | 29-10 |
| 500.00 | 31-5 | 31-7 | 31-10 | 32-0 | 32-2 | 32-4 | 32-7 | 32-9 | 32-11 | 33-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 |
| 225.00 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 |
| 250.00 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 |
| 275.00 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 |
| 300.00 | 11-4 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-10 | 11-11 |
| 325.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 13-11 |
| 350.00 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 |
| 375.00 | 17-8 | 17-9 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-5 | 18-6 | 18-7 |
| 400.00 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-8 | 20-10 | 20-11 | 21-1 | 21-2 |
| 425.00 | 22-9 | 22-10 | 23-0 | 23-1 | 23-3 | 23-5 | 23-6 | 23-8 | 23-9 | 23-11 |
| 450.00 | 25-6 | 25-8 | 25-9 | 25-11 | 26-1 | 26-3 | 26-4 | 26-6 | 26-8 | 26-10 |
| 475.00 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 | 29-9 | 29-11 |
| 500.00 | 31-6 | 31-8 | 31-10 | 32-1 | 32-3 | 32-5 | 32-7 | 32-9 | 32-11 | 33-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.8

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 |
| 275.00 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 |
| 300.00 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 |
| 325.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 |
| 350.00 | 15-7 | 15-8 | 15-8 | 15-9 | 15-10 | 15-10 | 15-11 | 16-0 | 16-0 | 16-1 |
| 375.00 | 17-11 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-5 |
| 400.00 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 20-11 | 21-0 |
| 425.00 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 |
| 450.00 | 25-9 | 25-11 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 |
| 475.00 | 28-9 | 28-10 | 29-0 | 29-1 | 29-2 | 29-3 | 29-5 | 29-6 | 29-7 | 29-8 |
| 500.00 | 31-10 | 32-0 | 32-1 | 32-3 | 32-4 | 32-6 | 32-7 | 32-8 | 32-9 | 32-11 |
| 525.00 | 35-2 | 35-3 | 35-5 | 35-7 | 35-8 | 35-10 | 35-11 | 36-1 | 36-2 | 36-3 |
| 550.00 | 38-7 | 38-9 | 38-11 | 39-0 | 39-2 | 39-4 | 39-6 | 39-7 | 39-9 | 39-10 |
| 575.00 | 42-3 | 42-4 | 42-6 | 42-8 | 42-10 | 43-0 | 43-2 | 43-4 | 43-5 | 43-7 |
| 600.00 | 46-0 | 46-2 | 46-4 | 46-6 | 46-8 | 46-10 | 47-0 | 47-2 | 47-4 | 47-6 |
| 625.00 | 49-11 | 50-2 | 50-4 | 50-6 | 50-8 | 50-11 | 51-1 | 51-3 | 51-5 | 51-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 |
| 275.00 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 |
| 300.00 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 |
| 325.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 |
| 350.00 | 15-7 | 15-8 | 15-9 | 15-9 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 |
| 375.00 | 17-11 | 18-0 | 18-0 | 18-1 | 18-2 | 18-3 | 18-4 | 18-4 | 18-5 | 18-6 |
| 400.00 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 |
| 425.00 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 |
| 450.00 | 25-10 | 25-11 | 26-0 | 26-1 | 26-2 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 |
| 475.00 | 28-9 | 28-11 | 29-0 | 29-1 | 29-2 | 29-4 | 29-5 | 29-6 | 29-7 | 29-9 |
| 500.00 | 31-11 | 32-0 | 32-2 | 32-3 | 32-5 | 32-6 | 32-7 | 32-9 | 32-10 | 32-11 |
| 525.00 | 35-2 | 35-4 | 35-6 | 35-7 | 35-9 | 35-10 | 36-0 | 36-1 | 36-3 | 36-4 |
| 550.00 | 38-8 | 38-10 | 38-11 | 39-1 | 39-3 | 39-4 | 39-6 | 39-8 | 39-9 | 39-11 |
| 575.00 | 42-3 | 42-5 | 42-7 | 42-9 | 42-11 | 43-1 | 43-2 | 43-4 | 43-6 | 43-8 |
| 600.00 | 46-1 | 46-3 | 46-5 | 46-7 | 46-9 | 46-11 | 47-1 | 47-3 | 47-5 | 47-7 |
| 625.00 | 50-0 | 50-2 | 50-5 | 50-7 | 50-9 | 50-11 | 51-1 | 51-4 | 51-6 | 51-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 0.85 | 1500 | 0.85 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.21 | 1199 | 0.20 | 1218 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.30 | 827 | 0.28 | 865 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.35 | 711 | 0.33 | 751 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.41 | 601 | 0.38 | 643 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.49 | 502 | 0.45 | 542 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.59 | 418 | 0.54 | 453 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.70 | 352 | 0.65 | 379 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.82 | 301 | 0.77 | 322 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.94 | 263 | 0.88 | 280 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.05 | 234 | 0.98 | 251 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.15 | 214 | 1.08 | 228 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.25 | 197 | 1.18 | 209 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.57 | 157 | 1.50 | 164 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.90 | 130 | 1.84 | 134 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 3.40 | 1500 | 3.40 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.76 | 561 | 1.67 | 590 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.32 | 424 | 2.22 | 443 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.51 | 393 | 2.41 | 409 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.69 | 366 | 2.60 | 379 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.87 | 344 | 2.78 | 355 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.04 | 325 | 2.95 | 334 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.20 | 308 | 3.12 | 316 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.36 | 293 | 3.29 | 300 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.52 | 280 | 3.44 | 286 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.67 | 269 | 3.58 | 275 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.81 | 259 | 3.71 | 266 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.93 | 251 | 3.84 | 257 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.38 | 225 | 4.30 | 230 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.88 | 202 | 4.80 | 206 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 7.67 | 1500 | 7.67 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.98 | 371 | 5.86 | 379 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.57 | 338 | 6.46 | 344 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.75 | 329 | 6.65 | 334 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.93 | 320 | 6.83 | 325 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.11 | 312 | 7.02 | 316 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.29 | 305 | 7.20 | 309 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.46 | 298 | 7.37 | 301 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.62 | 291 | 7.55 | 294 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.79 | 285 | 7.71 | 288 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.95 | 280 | 7.86 | 283 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.10 | 274 | 8.00 | 278 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.25 | 270 | 8.15 | 273 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.76 | 254 | 8.66 | 257 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.34 | 238 | 9.25 | 241 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 13.66 | 1500 | 13.66 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.00 | 329 | 11.88 | 333 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.56 | 315 | 12.45 | 318 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.74 | 310 | 12.64 | 313 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.92 | 306 | 12.82 | 309 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.10 | 302 | 13.00 | 304 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.27 | 298 | 13.18 | 300 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.44 | 294 | 13.36 | 296 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.61 | 291 | 13.54 | 292 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.78 | 287 | 13.70 | 289 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.95 | 284 | 13.86 | 286 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.11 | 281 | 14.01 | 283 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.26 | 278 | 14.16 | 280 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.80 | 268 | 14.70 | 270 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.43 | 257 | 15.33 | 259 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 21.40 | 1500 | 21.40 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 19.76 | 314 | 19.64 | 315 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.30 | 305 | 20.20 | 307 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.48 | 303 | 20.38 | 304 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.66 | 300 | 20.56 | 301 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.83 | 298 | 20.74 | 299 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.01 | 295 | 20.92 | 296 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.18 | 293 | 21.10 | 294 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.35 | 290 | 21.27 | 291 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.52 | 288 | 21.44 | 289 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.69 | 286 | 21.60 | 287 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 21.86 | 284 | 21.75 | 285 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 22.01 | 282 | 21.90 | 283 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 22.56 | 275 | 22.46 | 276 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.22 | 267 | 23.12 | 269 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-6 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-3 | 1-6 | 1-9 | 2-0 | 2-3 |
| 175.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 | 2-8 | 3-0 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-10 | 2-2 | 2-7 | 3-1 | 3-6 | 3-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-6 | 1-8 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-3 |
| 200.00 | 1-0 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 | 2-10 | 3-3 | 3-9 | 4-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 |
| 200.00 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 |
| 225.00 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 |
| 250.00 | 3-2 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-11 | 5-2 | 5-5 | 5-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 150.00 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 |
| 175.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 |
| 200.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 225.00 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-8 |
| 250.00 | 3-4 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 |
| 175.00 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 |
| 200.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 225.00 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 250.00 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 |
| 275.00 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 |
| 300.00 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-10 |
| 325.00 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 |
| 350.00 | 8-6 | 8-9 | 9-1 | 9-4 | 9-7 | 9-10 | 10-0 | 10-3 | 10-6 | 10-8 |
| 375.00 | 9-9 | 10-1 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-10 | 12-1 | 12-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 |
| 200.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 |
| 225.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 |
| 250.00 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 |
| 275.00 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-7 | 6-8 |
| 300.00 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 |
| 325.00 | 7-6 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 |
| 350.00 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 |
| 375.00 | 10-0 | 10-3 | 10-7 | 10-10 | 11-1 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.15

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 225.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 |
| 250.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 |
| 275.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 300.00 | 6-11 | 7-0 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 |
| 325.00 | 8-1 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-1 | 9-2 |
| 350.00 | 9-5 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 |
| 375.00 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-2 |
| 400.00 | 12-3 | 12-5 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 |
| 425.00 | 13-10 | 14-1 | 14-3 | 14-6 | 14-8 | 14-11 | 15-1 | 15-3 | 15-6 | 15-8 |
| 450.00 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-8 | 16-11 | 17-2 | 17-4 | 17-7 |
| 475.00 | 17-4 | 17-7 | 17-10 | 18-1 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 |
| 500.00 | 19-2 | 19-6 | 19-9 | 20-1 | 20-4 | 20-7 | 20-11 | 21-2 | 21-5 | 21-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 225.00 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 |
| 250.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 |
| 275.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 300.00 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 325.00 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 |
| 350.00 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-7 | 10-8 |
| 375.00 | 10-11 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-1 | 12-3 |
| 400.00 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 |
| 425.00 | 14-0 | 14-2 | 14-5 | 14-7 | 14-9 | 15-0 | 15-2 | 15-4 | 15-7 | 15-9 |
| 450.00 | 15-8 | 15-11 | 16-2 | 16-4 | 16-7 | 16-10 | 17-0 | 17-3 | 17-5 | 17-8 |
| 475.00 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 19-0 | 19-3 | 19-5 | 19-8 |
| 500.00 | 19-4 | 19-8 | 19-11 | 20-2 | 20-6 | 20-9 | 21-0 | 21-3 | 21-7 | 21-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 |
| 275.00 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 |
| 300.00 | 7-2 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 |
| 325.00 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 |
| 350.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 375.00 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 |
| 400.00 | 12-10 | 12-11 | 13-0 | 13-2 | 13-3 | 13-5 | 13-6 | 13-7 | 13-9 | 13-10 |
| 425.00 | 14-5 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-3 | 15-4 | 15-6 | 15-7 |
| 450.00 | 16-2 | 16-4 | 16-6 | 16-8 | 16-10 | 16-11 | 17-1 | 17-3 | 17-4 | 17-6 |
| 475.00 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-0 | 19-2 | 19-4 | 19-6 |
| 500.00 | 20-0 | 20-2 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 |
| 525.00 | 22-1 | 22-3 | 22-6 | 22-8 | 22-10 | 23-1 | 23-3 | 23-6 | 23-8 | 23-10 |
| 550.00 | 24-3 | 24-5 | 24-8 | 24-11 | 25-1 | 25-4 | 25-6 | 25-9 | 26-0 | 26-2 |
| 575.00 | 26-6 | 26-9 | 27-0 | 27-3 | 27-5 | 27-8 | 27-11 | 28-2 | 28-5 | 28-7 |
| 600.00 | 28-10 | 29-1 | 29-4 | 29-8 | 29-11 | 30-2 | 30-5 | 30-8 | 30-11 | 31-2 |
| 625.00 | 31-4 | 31-7 | 31-11 | 32-2 | 32-5 | 32-9 | 33-0 | 33-3 | 33-7 | 33-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 |
| 275.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 |
| 300.00 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-10 |
| 325.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 |
| 350.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 375.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 400.00 | 12-10 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 |
| 425.00 | 14-6 | 14-8 | 14-9 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-6 | 15-8 |
| 450.00 | 16-4 | 16-5 | 16-7 | 16-9 | 16-10 | 17-0 | 17-2 | 17-3 | 17-5 | 17-7 |
| 475.00 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 |
| 500.00 | 20-1 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 |
| 525.00 | 22-2 | 22-5 | 22-7 | 22-9 | 23-0 | 23-2 | 23-4 | 23-7 | 23-9 | 23-11 |
| 550.00 | 24-4 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-8 | 25-10 | 26-1 | 26-3 |
| 575.00 | 26-8 | 26-10 | 27-1 | 27-4 | 27-7 | 27-10 | 28-0 | 28-3 | 28-6 | 28-9 |
| 600.00 | 29-0 | 29-3 | 29-6 | 29-9 | 30-0 | 30-3 | 30-6 | 30-9 | 31-0 | 31-3 |
| 625.00 | 31-6 | 31-9 | 32-1 | 32-4 | 32-7 | 32-10 | 33-2 | 33-5 | 33-8 | 33-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 0.64 | 2000 | 0.64 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.13 | 1828 | 0.13 | 1841 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.17 | 1441 | 0.17 | 1481 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.19 | 1313 | 0.18 | 1360 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.21 | 1186 | 0.20 | 1239 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.23 | 1060 | 0.22 | 1118 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.26 | 936 | 0.25 | 998 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.30 | 815 | 0.28 | 879 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.35 | 699 | 0.32 | 763 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.42 | 590 | 0.38 | 652 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.50 | 493 | 0.45 | 549 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.60 | 411 | 0.54 | 458 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.70 | 353 | 0.62 | 397 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.08 | 228 | 0.98 | 250 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.49 | 165 | 1.40 | 176 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 2.55 | 2000 | 2.55 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.74 | 1340 | 0.71 | 1382 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.99 | 996 | 0.94 | 1052 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.10 | 892 | 1.04 | 949 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.24 | 796 | 1.16 | 851 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.39 | 709 | 1.29 | 761 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.56 | 633 | 1.45 | 680 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.74 | 568 | 1.62 | 608 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.92 | 513 | 1.80 | 547 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.11 | 467 | 1.99 | 495 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.30 | 428 | 2.18 | 452 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.49 | 396 | 2.36 | 417 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.65 | 372 | 2.52 | 391 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.22 | 306 | 3.09 | 319 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.84 | 257 | 3.71 | 266 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 5.74 | 2000 | 5.74 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.85 | 778 | 2.70 | 821 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.59 | 618 | 3.41 | 650 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.83 | 578 | 3.66 | 606 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.08 | 544 | 3.91 | 568 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.32 | 513 | 4.15 | 534 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.56 | 486 | 4.39 | 505 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.79 | 463 | 4.63 | 479 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.02 | 442 | 4.87 | 456 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.24 | 423 | 5.10 | 435 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.46 | 406 | 5.32 | 417 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.67 | 391 | 5.52 | 402 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.86 | 379 | 5.71 | 389 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.52 | 341 | 6.37 | 349 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.25 | 306 | 7.11 | 312 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 10.22 | 2000 | 10.22 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.20 | 548 | 6.99 | 565 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.01 | 493 | 7.81 | 506 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.26 | 478 | 8.07 | 489 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.52 | 463 | 8.33 | 474 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.76 | 450 | 8.58 | 460 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.00 | 438 | 8.83 | 447 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.24 | 427 | 9.07 | 435 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.47 | 417 | 9.31 | 424 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.70 | 407 | 9.55 | 413 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.93 | 398 | 9.78 | 404 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.15 | 389 | 9.99 | 395 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.35 | 382 | 10.19 | 388 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.05 | 358 | 10.89 | 363 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.86 | 333 | 11.71 | 338 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 16.00 | 2000 | 16.00 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.02 | 474 | 12.80 | 482 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.79 | 448 | 13.59 | 454 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.04 | 440 | 13.84 | 446 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.29 | 432 | 14.10 | 438 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.53 | 425 | 14.35 | 431 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.77 | 418 | 14.59 | 423 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.01 | 412 | 14.84 | 416 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.24 | 405 | 15.08 | 410 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.47 | 400 | 15.31 | 404 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.70 | 394 | 15.55 | 397 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.92 | 388 | 15.76 | 392 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.12 | 383 | 15.96 | 387 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.85 | 367 | 16.69 | 370 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 17.70 | 350 | 17.55 | 353 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-6 | 1-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 2-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 |
| 225.00 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 |
| 250.00 | 1-4 | 1-6 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 | 3-1 | 3-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 125.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 |
| 225.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 |
| 250.00 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-9 | 3-0 | 3-4 | 3-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 |
| 175.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 200.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225.00 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 |
| 250.00 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 |
| 275.00 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 |
| 300.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 |
| 325.00 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 |
| 350.00 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 | 7-3 |
| 375.00 | 4-11 | 5-4 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 | 8-0 | 8-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 |
| 175.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 |
| 200.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 |
| 225.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 |
| 250.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 275.00 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 |
| 300.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-6 |
| 325.00 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-5 |
| 350.00 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-10 | 7-2 | 7-5 |
| 375.00 | 5-3 | 5-7 | 6-0 | 6-5 | 6-9 | 7-2 | 7-6 | 7-10 | 8-2 | 8-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 |
| 225.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 |
| 250.00 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 |
| 300.00 | 4-3 | 4-5 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 | 5-6 |
| 325.00 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-5 |
| 350.00 | 5-9 | 6-0 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 |
| 375.00 | 6-7 | 6-10 | 7-1 | 7-4 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-7 |
| 400.00 | 7-6 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 |
| 425.00 | 8-6 | 8-10 | 9-1 | 9-5 | 9-8 | 10-0 | 10-3 | 10-6 | 10-9 | 11-1 |
| 450.00 | 9-6 | 9-11 | 10-3 | 10-6 | 10-10 | 11-2 | 11-6 | 11-9 | 12-1 | 12-5 |
| 475.00 | 10-8 | 11-0 | 11-5 | 11-9 | 12-1 | 12-5 | 12-10 | 13-2 | 13-6 | 13-10 |
| 500.00 | 11-9 | 12-2 | 12-7 | 13-0 | 13-5 | 13-10 | 14-2 | 14-7 | 14-11 | 15-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 |
| 225.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 250.00 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 |
| 275.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 |
| 300.00 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 |
| 325.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 |
| 350.00 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 |
| 375.00 | 6-10 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 | 8-1 | 8-4 | 8-6 | 8-9 |
| 400.00 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-8 | 9-11 |
| 425.00 | 8-9 | 9-0 | 9-4 | 9-7 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-3 |
| 450.00 | 9-10 | 10-2 | 10-6 | 10-9 | 11-1 | 11-5 | 11-8 | 12-0 | 12-3 | 12-7 |
| 475.00 | 10-11 | 11-4 | 11-8 | 12-0 | 12-4 | 12-8 | 13-0 | 13-4 | 13-8 | 14-0 |
| 500.00 | 12-1 | 12-6 | 12-11 | 13-4 | 13-8 | 14-1 | 14-5 | 14-10 | 15-2 | 15-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-11 |
| 275.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 |
| 300.00 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 325.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 |
| 350.00 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 |
| 375.00 | 7-6 | 7-8 | 7-9 | 7-11 | 8-1 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 |
| 400.00 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 |
| 425.00 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-9 | 10-11 | 11-1 | 11-3 |
| 450.00 | 10-10 | 11-0 | 11-3 | 11-5 | 11-7 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 |
| 475.00 | 12-0 | 12-3 | 12-6 | 12-9 | 12-11 | 13-2 | 13-5 | 13-7 | 13-10 | 14-0 |
| 500.00 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-7 | 14-10 | 15-1 | 15-4 | 15-7 |
| 525.00 | 14-8 | 15-0 | 15-3 | 15-7 | 15-10 | 16-1 | 16-4 | 16-7 | 16-11 | 17-2 |
| 550.00 | 16-2 | 16-5 | 16-9 | 17-1 | 17-4 | 17-8 | 17-11 | 18-3 | 18-6 | 18-10 |
| 575.00 | 17-8 | 18-0 | 18-4 | 18-8 | 19-0 | 19-4 | 19-8 | 19-11 | 20-3 | 20-7 |
| 600.00 | 19-2 | 19-7 | 19-11 | 20-4 | 20-8 | 21-0 | 21-4 | 21-9 | 22-1 | 22-5 |
| 625.00 | 20-10 | 21-3 | 21-8 | 22-0 | 22-5 | 22-10 | 23-2 | 23-7 | 23-11 | 24-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 |
| 275.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 |
| 300.00 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 325.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 |
| 350.00 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 |
| 375.00 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 | 8-4 | 8-5 | 8-7 | 8-8 | 8-10 |
| 400.00 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-9 | 9-11 | 10-0 |
| 425.00 | 9-9 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 |
| 450.00 | 11-0 | 11-2 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 | 12-4 | 12-6 | 12-9 |
| 475.00 | 12-3 | 12-5 | 12-8 | 12-11 | 13-1 | 13-4 | 13-6 | 13-9 | 14-0 | 14-2 |
| 500.00 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-8 |
| 525.00 | 14-11 | 15-2 | 15-6 | 15-9 | 16-0 | 16-3 | 16-7 | 16-10 | 17-1 | 17-4 |
| 550.00 | 16-5 | 16-8 | 17-0 | 17-3 | 17-7 | 17-10 | 18-2 | 18-5 | 18-9 | 19-0 |
| 575.00 | 17-11 | 18-3 | 18-7 | 18-11 | 19-3 | 19-6 | 19-10 | 20-2 | 20-6 | 20-9 |
| 600.00 | 19-6 | 19-10 | 20-3 | 20-7 | 20-11 | 21-3 | 21-7 | 21-11 | 22-3 | 22-7 |
| 625.00 | 21-2 | 21-7 | 21-11 | 22-4 | 22-9 | 23-1 | 23-6 | 23-10 | 24-2 | 24-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 0.51 | 2500 | 0.51 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.10 | 2390 | 0.10 | 2400 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.12 | 2000 | 0.12 | 2047 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.13 | 1870 | 0.13 | 1927 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.14 | 1740 | 0.14 | 1807 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.15 | 1611 | 0.15 | 1685 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.17 | 1482 | 0.16 | 1563 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.18 | 1354 | 0.17 | 1440 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.20 | 1226 | 0.19 | 1317 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.22 | 1100 | 0.21 | 1194 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.25 | 975 | 0.23 | 1071 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.29 | 853 | 0.26 | 950 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.34 | 735 | 0.30 | 830 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.59 | 420 | 0.51 | 486 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.04 | 236 | 0.92 | 267 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 2.04 | 2500 | 2.04 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.48 | 2065 | 0.47 | 2101 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.58 | 1685 | 0.56 | 1751 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.63 | 1561 | 0.60 | 1634 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.69 | 1438 | 0.65 | 1517 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.75 | 1317 | 0.70 | 1401 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.82 | 1199 | 0.77 | 1286 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.91 | 1085 | 0.84 | 1173 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.01 | 976 | 0.93 | 1063 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.13 | 873 | 1.03 | 957 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.27 | 779 | 1.15 | 857 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.42 | 694 | 1.29 | 765 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.59 | 620 | 1.44 | 682 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.19 | 450 | 2.03 | 485 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.92 | 338 | 2.75 | 358 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 4.59 | 2500 | 4.59 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.42 | 1562 | 1.36 | 1628 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.80 | 1230 | 1.69 | 1309 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.96 | 1130 | 1.83 | 1208 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.14 | 1035 | 1.99 | 1112 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.34 | 948 | 2.17 | 1021 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.55 | 868 | 2.37 | 937 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.78 | 797 | 2.58 | 860 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.02 | 734 | 2.80 | 791 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.26 | 679 | 3.04 | 729 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.51 | 631 | 3.29 | 674 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.76 | 590 | 3.54 | 627 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.00 | 555 | 3.79 | 585 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.78 | 464 | 4.58 | 484 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.67 | 392 | 5.47 | 405 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 8.17 | 2500 | 8.17 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.77 | 1047 | 3.55 | 1112 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.62 | 853 | 4.35 | 906 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.92 | 801 | 4.64 | 850 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.22 | 755 | 4.93 | 799 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.52 | 714 | 5.23 | 753 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.82 | 677 | 5.54 | 712 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.12 | 644 | 5.84 | 676 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.41 | 615 | 6.13 | 643 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.70 | 589 | 6.43 | 613 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.98 | 565 | 6.72 | 587 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.26 | 543 | 7.01 | 563 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.51 | 525 | 7.29 | 541 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.38 | 471 | 8.16 | 484 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.36 | 422 | 9.15 | 431 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E DISTRIBUTION SAG AND TENSION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 12.78 | 2500 | 12.78 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.07 | 764 | 7.72 | 798 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.08 | 679 | 8.74 | 705 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.41 | 655 | 9.07 | 679 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.73 | 634 | 9.40 | 656 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.05 | 614 | 9.73 | 634 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.36 | 595 | 10.05 | 614 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.66 | 578 | 10.36 | 595 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.96 | 563 | 10.67 | 578 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.26 | 548 | 10.98 | 562 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.55 | 534 | 11.28 | 547 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.84 | 521 | 11.57 | 533 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.09 | 510 | 11.86 | 520 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.00 | 475 | 12.77 | 483 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.04 | 440 | 13.82 | 447 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-11 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 225.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 250.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 |
| 225.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 |
| 250.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 |
| 275.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 |
| 300.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 |
| 325.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 |
| 350.00 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-3 | 3-6 | 3-10 | 4-2 | 4-6 |
| 375.00 | 2-5 | 2-8 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-5 | 4-9 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 200.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 275.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 |
| 300.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 |
| 325.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 |
| 350.00 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 |
| 375.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 | 4-9 | 5-1 | 5-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 |
| 225.00 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 |
| 250.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 |
| 275.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 |
| 300.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 |
| 325.00 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 |
| 350.00 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-2 |
| 375.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 | 5-8 | 5-11 |
| 400.00 | 4-1 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-5 | 6-9 |
| 425.00 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 | 7-7 |
| 450.00 | 5-2 | 5-6 | 5-10 | 6-3 | 6-7 | 7-0 | 7-5 | 7-9 | 8-2 | 8-6 |
| 475.00 | 5-9 | 6-2 | 6-6 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 | 9-1 | 9-6 |
| 500.00 | 6-4 | 6-10 | 7-3 | 7-9 | 8-2 | 8-8 | 9-1 | 9-7 | 10-1 | 10-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 225.00 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 |
| 250.00 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 |
| 275.00 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 |
| 300.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 |
| 325.00 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 |
| 350.00 | 3-4 | 3-6 | 3-9 | 4-0 | 4-3 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 |
| 375.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-2 |
| 400.00 | 4-4 | 4-7 | 4-11 | 5-3 | 5-6 | 5-10 | 6-1 | 6-5 | 6-8 | 7-0 |
| 425.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-3 | 7-7 | 7-11 |
| 450.00 | 5-6 | 5-10 | 6-3 | 6-7 | 7-0 | 7-4 | 7-9 | 8-1 | 8-6 | 8-10 |
| 475.00 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-3 | 8-8 | 9-1 | 9-5 | 9-10 |
| 500.00 | 6-9 | 7-3 | 7-8 | 8-2 | 8-8 | 9-1 | 9-7 | 10-0 | 10-6 | 10-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 275.00 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 |
| 300.00 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 |
| 325.00 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 |
| 350.00 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 |
| 375.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 |
| 400.00 | 5-5 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 |
| 425.00 | 6-1 | 6-4 | 6-7 | 6-10 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 |
| 450.00 | 6-10 | 7-1 | 7-4 | 7-7 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 |
| 475.00 | 7-7 | 7-11 | 8-2 | 8-6 | 8-9 | 9-1 | 9-4 | 9-8 | 9-11 | 10-2 |
| 500.00 | 8-5 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 11-0 | 11-3 |
| 525.00 | 9-3 | 9-8 | 10-0 | 10-4 | 10-9 | 11-1 | 11-5 | 11-9 | 12-1 | 12-5 |
| 550.00 | 10-2 | 10-7 | 11-0 | 11-5 | 11-9 | 12-2 | 12-6 | 12-11 | 13-3 | 13-8 |
| 575.00 | 11-1 | 11-7 | 12-0 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-11 |
| 600.00 | 12-1 | 12-7 | 13-1 | 13-7 | 14-0 | 14-6 | 14-11 | 15-4 | 15-10 | 16-3 |
| 625.00 | 13-2 | 13-8 | 14-2 | 14-8 | 15-2 | 15-8 | 16-2 | 16-8 | 17-2 | 17-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 275.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 300.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 |
| 325.00 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 |
| 350.00 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-8 |
| 375.00 | 4-11 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 |
| 400.00 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 | 7-5 |
| 425.00 | 6-4 | 6-7 | 6-10 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 | 8-2 | 8-4 |
| 450.00 | 7-1 | 7-4 | 7-7 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-1 | 9-4 |
| 475.00 | 7-11 | 8-2 | 8-6 | 8-9 | 9-1 | 9-4 | 9-7 | 9-11 | 10-2 | 10-5 |
| 500.00 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 11-0 | 11-3 | 11-7 |
| 525.00 | 9-8 | 10-0 | 10-4 | 10-9 | 11-1 | 11-5 | 11-9 | 12-1 | 12-5 | 12-9 |
| 550.00 | 10-7 | 11-0 | 11-5 | 11-9 | 12-2 | 12-6 | 12-11 | 13-3 | 13-8 | 14-0 |
| 575.00 | 11-7 | 12-0 | 12-5 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-11 | 15-3 |
| 600.00 | 12-7 | 13-1 | 13-7 | 14-0 | 14-6 | 14-11 | 15-4 | 15-10 | 16-3 | 16-8 |
| 625.00 | 13-8 | 14-2 | 14-8 | 15-2 | 15-8 | 16-2 | 16-8 | 17-2 | 17-7 | 18-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 0.43 | 2984 | 0.42 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.08 | 2906 | 0.08 | 2932 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.10 | 2515 | 0.10 | 2590 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.10 | 2385 | 0.10 | 2474 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.11 | 2255 | 0.10 | 2356 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.12 | 2125 | 0.11 | 2238 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.12 | 1995 | 0.12 | 2117 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.13 | 1865 | 0.12 | 1996 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.14 | 1735 | 0.13 | 1874 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.15 | 1606 | 0.14 | 1751 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.17 | 1477 | 0.15 | 1627 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.18 | 1349 | 0.16 | 1503 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.20 | 1221 | 0.18 | 1378 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.31 | 792 | 0.27 | 918 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.59 | 417 | 0.47 | 519 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 1.70 | 3000 | 1.70 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.37 | 2695 | 0.36 | 2728 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.43 | 2308 | 0.41 | 2385 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.45 | 2180 | 0.43 | 2268 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.48 | 2052 | 0.46 | 2151 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.51 | 1925 | 0.48 | 2033 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.55 | 1798 | 0.51 | 1914 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.59 | 1673 | 0.55 | 1795 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.64 | 1548 | 0.59 | 1676 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.69 | 1426 | 0.63 | 1557 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.75 | 1305 | 0.69 | 1438 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.83 | 1188 | 0.75 | 1320 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.92 | 1074 | 0.82 | 1205 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.33 | 741 | 1.21 | 813 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.01 | 490 | 1.82 | 541 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 3.83 | 3000 | 3.83 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.95 | 2325 | 0.93 | 2391 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.14 | 1951 | 1.08 | 2051 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.21 | 1829 | 1.14 | 1937 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.30 | 1709 | 1.22 | 1823 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.39 | 1591 | 1.30 | 1710 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.50 | 1476 | 1.39 | 1598 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.62 | 1364 | 1.49 | 1487 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.76 | 1257 | 1.61 | 1379 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.92 | 1154 | 1.74 | 1274 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.10 | 1058 | 1.89 | 1172 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.29 | 969 | 2.06 | 1076 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.50 | 887 | 2.25 | 987 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.27 | 679 | 3.05 | 727 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.24 | 523 | 3.99 | 555 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 6.81 | 3000 | 6.81 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.14 | 1846 | 2.03 | 1941 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.60 | 1515 | 2.43 | 1625 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.79 | 1412 | 2.59 | 1523 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.00 | 1314 | 2.77 | 1425 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.22 | 1223 | 2.96 | 1330 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.47 | 1137 | 3.18 | 1240 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.73 | 1058 | 3.41 | 1155 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.00 | 985 | 3.66 | 1076 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.28 | 920 | 3.93 | 1003 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.58 | 861 | 4.21 | 936 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.88 | 808 | 4.50 | 875 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.17 | 763 | 4.80 | 821 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.14 | 642 | 5.87 | 672 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.29 | 542 | 7.00 | 563 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 0.50G | 6.00 | 0.00 | 1.020 | 10.64 | 3000 | 10.64 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.53 | 1360 | 4.23 | 1457 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.45 | 1131 | 5.06 | 1218 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.78 | 1066 | 5.37 | 1148 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.12 | 1007 | 5.69 | 1083 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.47 | 953 | 6.02 | 1023 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.81 | 904 | 6.36 | 968 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.16 | 860 | 6.71 | 918 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.51 | 820 | 7.06 | 873 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.86 | 784 | 7.41 | 832 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.21 | 751 | 7.76 | 794 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.55 | 721 | 8.11 | 760 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.85 | 696 | 8.45 | 729 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.92 | 621 | 9.61 | 641 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.16 | 553 | 10.85 | 568 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 175.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 225.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 |
| 250.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 250.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.38

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-3 | 1-4 |
| 275.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 |
| 350.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-7 |
| 375.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 275.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 300.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 |
| 325.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 |
| 350.00 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 |
| 375.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 250.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 300.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 |
| 325.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 350.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 |
| 375.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 |
| 400.00 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 |
| 425.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 |
| 450.00 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 |
| 475.00 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 5-11 |
| 500.00 | 3-7 | 3-9 | 4-1 | 4-4 | 4-8 | 5-0 | 5-4 | 5-9 | 6-2 | 6-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 225.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 275.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |
| 300.00 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 325.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 |
| 350.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 |
| 375.00 | 2-2 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 |
| 400.00 | 2-5 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 |
| 425.00 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 |
| 450.00 | 3-1 | 3-4 | 3-6 | 3-10 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-10 |
| 475.00 | 3-5 | 3-8 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-8 | 6-1 | 6-5 |
| 500.00 | 3-10 | 4-1 | 4-4 | 4-8 | 5-0 | 5-5 | 5-10 | 6-3 | 6-8 | 7-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 275.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 |
| 300.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 |
| 325.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 |
| 350.00 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 |
| 375.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 400.00 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 5-0 |
| 425.00 | 3-5 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 |
| 450.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-11 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 |
| 475.00 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 | 7-0 |
| 500.00 | 4-9 | 5-1 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-1 | 7-5 | 7-9 |
| 525.00 | 5-3 | 5-7 | 5-11 | 6-3 | 6-8 | 7-0 | 7-5 | 7-9 | 8-2 | 8-7 |
| 550.00 | 5-9 | 6-1 | 6-6 | 6-11 | 7-3 | 7-8 | 8-1 | 8-6 | 9-0 | 9-5 |
| 575.00 | 6-4 | 6-8 | 7-1 | 7-6 | 8-0 | 8-5 | 8-10 | 9-4 | 9-10 | 10-3 |
| 600.00 | 6-10 | 7-3 | 7-9 | 8-2 | 8-8 | 9-2 | 9-8 | 10-2 | 10-8 | 11-2 |
| 625.00 | 7-5 | 7-11 | 8-5 | 8-11 | 9-5 | 9-11 | 10-6 | 11-0 | 11-7 | 12-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 |
| 275.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 |
| 300.00 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 |
| 325.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-6 |
| 350.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 |
| 375.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 |
| 400.00 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 |
| 425.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 |
| 450.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-8 |
| 475.00 | 4-8 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 | 7-5 |
| 500.00 | 5-2 | 5-5 | 5-9 | 6-1 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 |
| 525.00 | 5-8 | 6-0 | 6-4 | 6-9 | 7-2 | 7-6 | 7-11 | 8-3 | 8-8 | 9-1 |
| 550.00 | 6-2 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 | 9-1 | 9-6 | 9-11 |
| 575.00 | 6-9 | 7-2 | 7-8 | 8-1 | 8-7 | 9-0 | 9-6 | 9-11 | 10-5 | 10-10 |
| 600.00 | 7-5 | 7-10 | 8-4 | 8-10 | 9-4 | 9-10 | 10-4 | 10-10 | 11-4 | 11-10 |
| 625.00 | 8-0 | 8-6 | 9-0 | 9-7 | 10-1 | 10-8 | 11-2 | 11-9 | 12-3 | 12-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.02 | 0.37 | 3479 | 0.36 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.07 | 3422 | 0.07 | 3452 |
| 30 | 0 | 0 | 0 | 0.197 | 0.08 | 3030 | 0.08 | 3124 |
| 40 | 0 | 0 | 0 | 0.197 | 0.08 | 2900 | 0.08 | 3012 |
| 50 | 0 | 0 | 0 | 0.197 | 0.09 | 2769 | 0.08 | 2898 |
| 60 | 0 | 0 | 0 | 0.197 | 0.09 | 2639 | 0.09 | 2783 |
| 70 | 0 | 0 | 0 | 0.197 | 0.1 | 2509 | 0.09 | 2667 |
| 80 | 0 | 0 | 0 | 0.197 | 0.1 | 2378 | 0.1 | 2549 |
| 90 | 0 | 0 | 0 | 0.197 | 0.11 | 2248 | 0.1 | 2430 |
| 100 | 0 | 0 | 0 | 0.197 | 0.12 | 2118 | 0.11 | 2310 |
| 110 | 0 | 0 | 0 | 0.197 | 0.12 | 1988 | 0.11 | 2189 |
| 120 | 0 | 0 | 0 | 0.197 | 0.13 | 1859 | 0.12 | 2066 |
| 130 | 0 | 0 | 0 | 0.197 | 0.14 | 1729 | 0.13 | 1943 |
| 167 | 0 | 0 | 0 | 0.197 | 0.2 | 1253 | 0.17 | 1479 |
| 212 | 0 | 0 | 0 | 0.197 | 0.31 | 799 | 0.26 | 949 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.02 | 1.46 | 3499 | 1.46 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.3 | 3275 | 0.3 | 3306 |
| 30 | 0 | 0 | 0 | 0.197 | 0.34 | 2885 | 0.33 | 2976 |
| 40 | 0 | 0 | 0 | 0.197 | 0.36 | 2756 | 0.34 | 2863 |
| 50 | 0 | 0 | 0 | 0.197 | 0.38 | 2626 | 0.36 | 2749 |
| 60 | 0 | 0 | 0 | 0.197 | 0.39 | 2497 | 0.37 | 2634 |
| 70 | 0 | 0 | 0 | 0.197 | 0.42 | 2368 | 0.39 | 2517 |
| 80 | 0 | 0 | 0 | 0.197 | 0.44 | 2240 | 0.41 | 2400 |
| 90 | 0 | 0 | 0 | 0.197 | 0.47 | 2112 | 0.43 | 2281 |
| 100 | 0 | 0 | 0 | 0.197 | 0.5 | 1984 | 0.46 | 2162 |
| 110 | 0 | 0 | 0 | 0.197 | 0.53 | 1857 | 0.48 | 2042 |
| 120 | 0 | 0 | 0 | 0.197 | 0.57 | 1731 | 0.51 | 1921 |
| 130 | 0 | 0 | 0 | 0.197 | 0.61 | 1606 | 0.55 | 1799 |
| 167 | 0 | 0 | 0 | 0.197 | 0.85 | 1162 | 0.73 | 1352 |
| 212 | 0 | 0 | 0 | 0.197 | 1.27 | 776 | 1.11 | 890 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.02 | 3.28 | 3500 | 3.28 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.74 | 2998 | 0.72 | 3063 |
| 30 | 0 | 0 | 0 | 0.197 | 0.85 | 2615 | 0.81 | 2730 |
| 40 | 0 | 0 | 0 | 0.197 | 0.89 | 2487 | 0.85 | 2617 |
| 50 | 0 | 0 | 0 | 0.197 | 0.94 | 2361 | 0.89 | 2503 |
| 60 | 0 | 0 | 0 | 0.197 | 0.99 | 2235 | 0.93 | 2388 |
| 70 | 0 | 0 | 0 | 0.197 | 1.05 | 2110 | 0.98 | 2273 |
| 80 | 0 | 0 | 0 | 0.197 | 1.12 | 1987 | 1.03 | 2157 |
| 90 | 0 | 0 | 0 | 0.197 | 1.19 | 1864 | 1.09 | 2041 |
| 100 | 0 | 0 | 0 | 0.197 | 1.27 | 1743 | 1.15 | 1924 |
| 110 | 0 | 0 | 0 | 0.197 | 1.36 | 1625 | 1.23 | 1808 |
| 120 | 0 | 0 | 0 | 0.197 | 1.47 | 1509 | 1.31 | 1693 |
| 130 | 0 | 0 | 0 | 0.197 | 1.59 | 1396 | 1.4 | 1579 |
| 167 | 0 | 0 | 0 | 0.197 | 2.12 | 1048 | 1.88 | 1179 |
| 212 | 0 | 0 | 0 | 0.197 | 2.94 | 755 | 2.68 | 828 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.02 | 5.83 | 3500 | 5.83 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.5 | 2622 | 1.45 | 2725 |
| 30 | 0 | 0 | 0 | 0.197 | 1.75 | 2252 | 1.65 | 2394 |
| 40 | 0 | 0 | 0 | 0.197 | 1.85 | 2131 | 1.73 | 2282 |
| 50 | 0 | 0 | 0 | 0.197 | 1.96 | 2012 | 1.82 | 2171 |
| 60 | 0 | 0 | 0 | 0.197 | 2.08 | 1895 | 1.91 | 2060 |
| 70 | 0 | 0 | 0 | 0.197 | 2.21 | 1780 | 2.02 | 1949 |
| 80 | 0 | 0 | 0 | 0.197 | 2.36 | 1668 | 2.14 | 1840 |
| 90 | 0 | 0 | 0 | 0.197 | 2.53 | 1560 | 2.28 | 1731 |
| 100 | 0 | 0 | 0 | 0.197 | 2.71 | 1455 | 2.42 | 1625 |
| 110 | 0 | 0 | 0 | 0.197 | 2.91 | 1355 | 2.59 | 1521 |
| 120 | 0 | 0 | 0 | 0.197 | 3.13 | 1261 | 2.77 | 1421 |
| 130 | 0 | 0 | 0 | 0.197 | 3.36 | 1173 | 2.98 | 1325 |
| 167 | 0 | 0 | 0 | 0.197 | 4.24 | 929 | 3.88 | 1015 |
| 212 | 0 | 0 | 0 | 0.197 | 5.4 | 730 | 5.05 | 780 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.02 | 9.12 | 3500 | 9.12 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 2.83 | 2172 | 2.67 | 2306 |
| 30 | 0 | 0 | 0 | 0.197 | 3.35 | 1837 | 3.09 | 1991 |
| 40 | 0 | 0 | 0 | 0.197 | 3.56 | 1731 | 3.26 | 1888 |
| 50 | 0 | 0 | 0 | 0.197 | 3.78 | 1629 | 3.45 | 1786 |
| 60 | 0 | 0 | 0 | 0.197 | 4.02 | 1531 | 3.65 | 1688 |
| 70 | 0 | 0 | 0 | 0.197 | 4.28 | 1439 | 3.87 | 1592 |
| 80 | 0 | 0 | 0 | 0.197 | 4.56 | 1351 | 4.11 | 1499 |
| 90 | 0 | 0 | 0 | 0.197 | 4.85 | 1270 | 4.36 | 1411 |
| 100 | 0 | 0 | 0 | 0.197 | 5.16 | 1194 | 4.64 | 1327 |
| 110 | 0 | 0 | 0 | 0.197 | 5.48 | 1124 | 4.93 | 1248 |
| 120 | 0 | 0 | 0 | 0.197 | 5.81 | 1059 | 5.24 | 1175 |
| 130 | 0 | 0 | 0 | 0.197 | 6.14 | 1002 | 5.57 | 1106 |
| 167 | 0 | 0 | 0 | 0.197 | 7.27 | 848 | 6.84 | 900 |
| 212 | 0 | 0 | 0 | 0.197 | 8.64 | 714 | 8.23 | 749 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.45

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 250.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.46

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 300.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 325.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 350.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 375.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 225.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 275.00 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 |
| 300.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 |
| 325.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 350.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 |
| 375.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 225.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 250.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 275.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 300.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 325.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 350.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |
| 375.00 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 |
| 400.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 |
| 425.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 450.00 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 475.00 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 |
| 500.00 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 | 4-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 275.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 |
| 300.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 |
| 350.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 375.00 | 1-6 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 400.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-11 |
| 425.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 |
| 450.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-8 |
| 475.00 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 |
| 500.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-3 | 4-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 275.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 300.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 325.00 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 |
| 350.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 |
| 375.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 400.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 425.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 |
| 450.00 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 4-0 |
| 475.00 | 2-8 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 |
| 500.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 |
| 525.00 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 |
| 550.00 | 3-7 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 6-0 |
| 575.00 | 3-11 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-5 | 5-9 | 6-2 | 6-6 |
| 600.00 | 4-3 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 | 6-3 | 6-8 | 7-1 |
| 625.00 | 4-7 | 4-10 | 5-1 | 5-5 | 5-8 | 6-1 | 6-5 | 6-10 | 7-3 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 |
| 275.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 300.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 |
| 325.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 350.00 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 |
| 375.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 400.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 |
| 425.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 |
| 450.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 |
| 475.00 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 |
| 500.00 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-7 | 4-10 | 5-2 | 5-6 |
| 525.00 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 | 5-8 | 6-1 |
| 550.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 | 5-6 | 5-10 | 6-3 | 6-8 |
| 575.00 | 4-2 | 4-5 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-5 | 6-10 | 7-3 |
| 600.00 | 4-7 | 4-10 | 5-1 | 5-5 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-11 |
| 625.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-8 | 7-1 | 7-7 | 8-1 | 8-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 3.85 | 1000 | 3.85 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.53 | 70 | 3.53 | 70 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.69 | 67 | 3.67 | 67 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.73 | 66 | 3.71 | 67 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.77 | 66 | 3.75 | 66 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.81 | 65 | 3.79 | 65 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.85 | 64 | 3.83 | 65 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.88 | 64 | 3.86 | 64 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.92 | 63 | 3.90 | 64 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.96 | 63 | 3.93 | 63 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.99 | 62 | 3.97 | 62 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.02 | 62 | 4.00 | 62 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.06 | 61 | 4.04 | 61 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.18 | 59 | 4.16 | 60 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.32 | 57 | 4.30 | 58 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 15.69 | 1000 | 15.69 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.37 | 66 | 15.37 | 66 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.53 | 65 | 15.51 | 65 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.57 | 65 | 15.55 | 65 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.61 | 65 | 15.59 | 65 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.65 | 64 | 15.63 | 65 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.69 | 64 | 15.67 | 64 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.72 | 64 | 15.71 | 64 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.76 | 64 | 15.74 | 64 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.80 | 64 | 15.78 | 64 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.83 | 64 | 15.81 | 64 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.87 | 64 | 15.85 | 64 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.90 | 64 | 15.88 | 64 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.03 | 63 | 16.01 | 63 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.19 | 62 | 16.16 | 63 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC DESIGN TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 36.51 | 1000 | 36.51 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.19 | 65 | 36.19 | 65 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.35 | 65 | 36.33 | 65 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.39 | 65 | 36.37 | 65 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.43 | 64 | 36.41 | 64 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.46 | 64 | 36.45 | 64 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.50 | 64 | 36.49 | 64 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.54 | 64 | 36.52 | 64 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.58 | 64 | 36.56 | 64 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.62 | 64 | 36.59 | 64 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.65 | 64 | 36.63 | 64 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.69 | 64 | 36.66 | 64 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.72 | 64 | 36.70 | 64 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 36.85 | 64 | 36.83 | 64 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 37.01 | 64 | 36.98 | 64 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 68.51 | 1000 | 68.51 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.19 | 65 | 68.19 | 65 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.35 | 64 | 68.33 | 64 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.39 | 64 | 68.37 | 64 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.43 | 64 | 68.41 | 64 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.47 | 64 | 68.45 | 64 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.50 | 64 | 68.49 | 64 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.54 | 64 | 68.52 | 64 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.58 | 64 | 68.56 | 64 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.62 | 64 | 68.59 | 64 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.65 | 64 | 68.63 | 64 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.68 | 64 | 68.66 | 64 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.72 | 64 | 68.70 | 64 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.85 | 64 | 68.82 | 64 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 69.00 | 64 | 68.98 | 64 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 116.97 | 1000 | 116.97 | 1000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 116.66 | 64 | 116.66 | 64 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 116.81 | 64 | 116.80 | 64 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 116.85 | 64 | 116.83 | 64 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 116.89 | 64 | 116.87 | 64 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 116.93 | 64 | 116.91 | 64 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 116.96 | 64 | 116.95 | 64 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 117.00 | 64 | 116.98 | 64 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 117.04 | 64 | 117.02 | 64 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 117.07 | 64 | 117.05 | 64 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 117.11 | 64 | 117.09 | 64 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 117.14 | 64 | 117.12 | 64 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 117.18 | 64 | 117.15 | 64 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 117.30 | 64 | 117.28 | 64 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 117.46 | 64 | 117.43 | 64 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 |
| 100.00 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 |
| 125.00 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 |
| 150.00 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 |
| 175.00 | 11-2 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 | 12-2 |
| 200.00 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-8 | 15-10 | 16-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 |
| 100.00 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 |
| 125.00 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 |
| 150.00 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 |
| 175.00 | 11-2 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 |
| 200.00 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-9 | 15-11 | 16-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.53

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-10 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 |
| 125.00 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 |
| 150.00 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 |
| 175.00 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-1 | 12-1 |
| 200.00 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-8 | 15-9 | 15-9 | 15-10 |
| 225.00 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 |
| 250.00 | 24-3 | 24-4 | 24-5 | 24-6 | 24-6 | 24-7 | 24-8 | 24-8 | 24-9 | 24-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 |
| 125.00 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 |
| 150.00 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 | 8-10 |
| 175.00 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-1 |
| 200.00 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 |
| 225.00 | 19-8 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 |
| 250.00 | 24-3 | 24-5 | 24-5 | 24-6 | 24-7 | 24-7 | 24-8 | 24-9 | 24-10 | 24-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 |
| 175.00 | 12-2 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 |
| 200.00 | 16-0 | 16-0 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-1 | 16-1 |
| 225.00 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 |
| 250.00 | 25-1 | 25-1 | 25-1 | 25-2 | 25-2 | 25-2 | 25-3 | 25-3 | 25-3 | 25-3 |
| 275.00 | 30-5 | 30-5 | 30-6 | 30-6 | 30-6 | 30-7 | 30-7 | 30-8 | 30-8 | 30-8 |
| 300.00 | 36-3 | 36-4 | 36-4 | 36-5 | 36-5 | 36-6 | 36-6 | 36-7 | 36-7 | 36-8 |
| 325.00 | 42-9 | 42-9 | 42-10 | 42-10 | 42-11 | 43-0 | 43-0 | 43-1 | 43-1 | 43-2 |
| 350.00 | 49-9 | 49-9 | 49-10 | 49-11 | 49-11 | 50-0 | 50-1 | 50-1 | 50-2 | 50-2 |
| 375.00 | 57-4 | 57-4 | 57-5 | 57-6 | 57-7 | 57-7 | 57-8 | 57-9 | 57-9 | 57-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 8-11 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 |
| 175.00 | 12-2 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 |
| 200.00 | 16-0 | 16-0 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-1 | 16-1 |
| 225.00 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-5 |
| 250.00 | 25-1 | 25-1 | 25-1 | 25-2 | 25-2 | 25-2 | 25-3 | 25-3 | 25-3 | 25-4 |
| 275.00 | 30-5 | 30-5 | 30-6 | 30-6 | 30-7 | 30-7 | 30-7 | 30-8 | 30-8 | 30-8 |
| 300.00 | 36-4 | 36-4 | 36-5 | 36-5 | 36-6 | 36-6 | 36-6 | 36-7 | 36-7 | 36-8 |
| 325.00 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 43-0 | 43-0 | 43-1 | 43-1 | 43-2 |
| 350.00 | 49-9 | 49-10 | 49-10 | 49-11 | 50-0 | 50-0 | 50-1 | 50-2 | 50-2 | 50-3 |
| 375.00 | 57-4 | 57-5 | 57-6 | 57-6 | 57-7 | 57-8 | 57-8 | 57-9 | 57-10 | 57-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.55

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 16-7 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 |
| 225.00 | 21-1 | 21-1 | 21-1 | 21-1 | 21-2 | 21-2 | 21-2 | 21-2 | 21-2 | 21-2 |
| 250.00 | 26-1 | 26-1 | 26-2 | 26-2 | 26-2 | 26-2 | 26-2 | 26-2 | 26-2 | 26-3 |
| 275.00 | 31-8 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 | 31-9 | 31-9 | 31-10 | 31-10 |
| 300.00 | 37-10 | 37-10 | 37-10 | 37-11 | 37-11 | 37-11 | 37-11 | 37-11 | 38-0 | 38-0 |
| 325.00 | 44-6 | 44-7 | 44-7 | 44-7 | 44-8 | 44-8 | 44-8 | 44-8 | 44-9 | 44-9 |
| 350.00 | 51-10 | 51-11 | 51-11 | 51-11 | 52-0 | 52-0 | 52-0 | 52-1 | 52-1 | 52-1 |
| 375.00 | 59-9 | 59-10 | 59-10 | 59-10 | 59-11 | 59-11 | 60-0 | 60-0 | 60-0 | 60-1 |
| 400.00 | 68-4 | 68-4 | 68-4 | 68-5 | 68-5 | 68-6 | 68-6 | 68-7 | 68-7 | 68-8 |
| 425.00 | 77-5 | 77-6 | 77-7 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 | 77-10 | 77-10 |
| 450.00 | 87-3 | 87-4 | 87-4 | 87-5 | 87-6 | 87-6 | 87-7 | 87-7 | 87-8 | 87-8 |
| 475.00 | 97-9 | 97-9 | 97-10 | 97-11 | 98-0 | 98-0 | 98-1 | 98-1 | 98-2 | 98-3 |
| 500.00 | 108-11 | 108-11 | 109-0 | 109-1 | 109-2 | 109-2 | 109-3 | 109-4 | 109-5 | 109-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 16-7 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 |
| 225.00 | 21-1 | 21-1 | 21-1 | 21-1 | 21-2 | 21-2 | 21-2 | 21-2 | 21-2 | 21-2 |
| 250.00 | 26-1 | 26-1 | 26-2 | 26-2 | 26-2 | 26-2 | 26-2 | 26-2 | 26-3 | 26-3 |
| 275.00 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 | 31-9 | 31-9 | 31-10 | 31-10 | 31-10 |
| 300.00 | 37-10 | 37-10 | 37-10 | 37-11 | 37-11 | 37-11 | 37-11 | 38-0 | 38-0 | 38-0 |
| 325.00 | 44-6 | 44-7 | 44-7 | 44-7 | 44-8 | 44-8 | 44-8 | 44-9 | 44-9 | 44-9 |
| 350.00 | 51-10 | 51-11 | 51-11 | 51-11 | 52-0 | 52-0 | 52-0 | 52-1 | 52-1 | 52-1 |
| 375.00 | 59-9 | 59-10 | 59-10 | 59-11 | 59-11 | 59-11 | 60-0 | 60-0 | 60-1 | 60-1 |
| 400.00 | 68-4 | 68-4 | 68-5 | 68-5 | 68-6 | 68-6 | 68-6 | 68-7 | 68-7 | 68-8 |
| 425.00 | 77-5 | 77-6 | 77-7 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 | 77-10 | 77-10 |
| 450.00 | 87-3 | 87-4 | 87-5 | 87-5 | 87-6 | 87-6 | 87-7 | 87-8 | 87-8 | 87-9 |
| 475.00 | 97-9 | 97-10 | 97-10 | 97-11 | 98-0 | 98-0 | 98-1 | 98-2 | 98-2 | 98-3 |
| 500.00 | 108-11 | 109-0 | 109-0 | 109-1 | 109-2 | 109-3 | 109-3 | 109-4 | 109-5 | 109-6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-11 | 27-11 | 27-11 | 27-11 |
| 275.00 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 | 33-11 |
| 300.00 | 40-4 | 40-4 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-6 |
| 325.00 | 47-7 | 47-7 | 47-7 | 47-7 | 47-7 | 47-8 | 47-8 | 47-8 | 47-8 | 47-8 |
| 350.00 | 55-5 | 55-5 | 55-5 | 55-5 | 55-6 | 55-6 | 55-6 | 55-6 | 55-6 | 55-6 |
| 375.00 | 63-11 | 63-11 | 63-11 | 63-11 | 64-0 | 64-0 | 64-0 | 64-0 | 64-0 | 64-1 |
| 400.00 | 73-0 | 73-1 | 73-1 | 73-1 | 73-2 | 73-2 | 73-2 | 73-2 | 73-3 | 73-3 |
| 425.00 | 82-11 | 82-11 | 82-11 | 83-0 | 83-0 | 83-0 | 83-1 | 83-1 | 83-1 | 83-1 |
| 450.00 | 93-5 | 93-6 | 93-6 | 93-6 | 93-7 | 93-7 | 93-7 | 93-8 | 93-8 | 93-8 |
| 475.00 | 104-9 | 104-9 | 104-10 | 104-10 | 104-10 | 104-11 | 104-11 | 104-11 | 105-0 | 105-0 |
| 500.00 | 116-9 | 116-10 | 116-10 | 116-10 | 116-11 | 116-11 | 117-0 | 117-0 | 117-1 | 117-1 |
| 525.00 | 129-7 | 129-7 | 129-8 | 129-8 | 129-9 | 129-9 | 129-10 | 129-10 | 129-11 | 129-11 |
| 550.00 | 143-2 | 143-3 | 143-3 | 143-4 | 143-4 | 143-5 | 143-5 | 143-6 | 143-6 | 143-7 |
| 575.00 | 157-7 | 157-8 | 157-8 | 157-9 | 157-10 | 157-10 | 157-11 | 157-11 | 158-0 | 158-1 |
| 600.00 | 172-10 | 172-11 | 173-0 | 173-0 | 173-1 | 173-2 | 173-3 | 173-3 | 173-4 | 173-4 |
| 625.00 | 189-0 | 189-1 | 189-2 | 189-3 | 189-3 | 189-4 | 189-5 | 189-6 | 189-6 | 189-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-11 | 27-11 | 27-11 | 27-11 | 27-11 |
| 275.00 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 | 33-11 |
| 300.00 | 40-4 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-6 | 40-6 |
| 325.00 | 47-7 | 47-7 | 47-7 | 47-7 | 47-7 | 47-8 | 47-8 | 47-8 | 47-8 | 47-8 |
| 350.00 | 55-5 | 55-5 | 55-5 | 55-5 | 55-6 | 55-6 | 55-6 | 55-6 | 55-6 | 55-7 |
| 375.00 | 63-11 | 63-11 | 63-11 | 63-11 | 64-0 | 64-0 | 64-0 | 64-0 | 64-1 | 64-1 |
| 400.00 | 73-0 | 73-1 | 73-1 | 73-1 | 73-2 | 73-2 | 73-2 | 73-3 | 73-3 | 73-3 |
| 425.00 | 82-11 | 82-11 | 82-11 | 83-0 | 83-0 | 83-0 | 83-1 | 83-1 | 83-1 | 83-2 |
| 450.00 | 93-5 | 93-6 | 93-6 | 93-7 | 93-7 | 93-7 | 93-8 | 93-8 | 93-8 | 93-9 |
| 475.00 | 104-9 | 104-9 | 104-10 | 104-10 | 104-11 | 104-11 | 104-11 | 105-0 | 105-0 | 105-0 |
| 500.00 | 116-9 | 116-10 | 116-10 | 116-11 | 116-11 | 117-0 | 117-0 | 117-0 | 117-1 | 117-1 |
| 525.00 | 129-7 | 129-7 | 129-8 | 129-9 | 129-9 | 129-10 | 129-10 | 129-11 | 129-11 | 129-11 |
| 550.00 | 143-2 | 143-3 | 143-3 | 143-4 | 143-4 | 143-5 | 143-6 | 143-6 | 143-7 | 143-7 |
| 575.00 | 157-7 | 157-8 | 157-9 | 157-9 | 157-10 | 157-10 | 157-11 | 158-0 | 158-0 | 158-1 |
| 600.00 | 172-10 | 172-11 | 173-0 | 173-1 | 173-1 | 173-2 | 173-3 | 173-4 | 173-4 | 173-5 |
| 625.00 | 189-0 | 189-1 | 189-2 | 189-3 | 189-4 | 189-4 | 189-5 | 189-6 | 189-7 | 189-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 2.56 | 1500 | 2.56 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.86 | 133 | 1.80 | 137 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.08 | 119 | 2.03 | 122 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.14 | 115 | 2.10 | 118 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.21 | 112 | 2.17 | 114 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.27 | 108 | 2.23 | 110 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.34 | 106 | 2.30 | 107 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.40 | 103 | 2.36 | 105 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.46 | 100 | 2.41 | 102 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.51 | 98 | 2.47 | 100 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.57 | 96 | 2.52 | 98 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.62 | 94 | 2.57 | 96 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.67 | 93 | 2.62 | 94 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.85 | 87 | 2.80 | 88 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.05 | 81 | 3.01 | 82 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 10.32 | 1500 | 10.32 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.68 | 103 | 9.63 | 103 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.86 | 101 | 9.82 | 101 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.92 | 100 | 9.88 | 101 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.98 | 100 | 9.94 | 100 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.04 | 99 | 10.00 | 99 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.10 | 99 | 10.07 | 99 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.16 | 98 | 10.12 | 98 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.22 | 97 | 10.17 | 98 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.27 | 97 | 10.23 | 97 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.33 | 96 | 10.28 | 97 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.38 | 96 | 10.33 | 96 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.43 | 95 | 10.38 | 96 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.62 | 94 | 10.58 | 94 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.85 | 92 | 10.80 | 92 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 23.54 | 1500 | 23.54 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 22.91 | 99 | 22.87 | 99 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.09 | 98 | 23.05 | 98 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.15 | 98 | 23.11 | 98 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.21 | 98 | 23.17 | 98 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.26 | 98 | 23.23 | 98 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.32 | 97 | 23.29 | 97 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.38 | 97 | 23.34 | 97 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.44 | 97 | 23.39 | 97 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.49 | 97 | 23.45 | 97 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.55 | 96 | 23.50 | 97 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.60 | 96 | 23.55 | 96 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.65 | 96 | 23.60 | 96 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.84 | 95 | 23.80 | 95 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.08 | 94 | 24.03 | 95 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 42.71 | 1500 | 42.71 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.09 | 98 | 42.04 | 98 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.26 | 97 | 42.22 | 97 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.32 | 97 | 42.28 | 97 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.38 | 97 | 42.34 | 97 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.43 | 97 | 42.40 | 97 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.49 | 97 | 42.46 | 97 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.55 | 97 | 42.51 | 97 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.61 | 97 | 42.56 | 97 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.66 | 97 | 42.62 | 97 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.72 | 96 | 42.67 | 97 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.77 | 96 | 42.72 | 96 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 42.82 | 96 | 42.77 | 96 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 43.01 | 96 | 42.97 | 96 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 43.25 | 95 | 43.20 | 95 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 68.65 | 1500 | 68.65 | 1500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.03 | 97 | 67.99 | 97 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.21 | 97 | 68.16 | 97 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.26 | 97 | 68.22 | 97 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.32 | 97 | 68.28 | 97 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.38 | 97 | 68.34 | 97 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.44 | 97 | 68.40 | 97 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.49 | 97 | 68.45 | 97 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.55 | 97 | 68.51 | 97 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.61 | 97 | 68.56 | 97 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.66 | 96 | 68.61 | 97 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.71 | 96 | 68.66 | 96 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.76 | 96 | 68.72 | 96 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 68.96 | 96 | 68.91 | 96 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 69.19 | 96 | 69.15 | 96 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 |
| 100.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 |
| 125.00 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 150.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 |
| 175.00 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 |
| 200.00 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-3 | 9-5 | 9-8 | 9-11 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 |
| 100.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 |
| 125.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 150.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 |
| 175.00 | 6-2 | 6-4 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-10 |
| 200.00 | 8-0 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 |
| 125.00 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 |
| 150.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 |
| 175.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 |
| 200.00 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 |
| 225.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 |
| 250.00 | 15-3 | 15-4 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 |
| 125.00 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 |
| 150.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 |
| 175.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 |
| 200.00 | 9-10 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 |
| 225.00 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-1 |
| 250.00 | 15-4 | 15-5 | 15-6 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-9 | 5-9 | 5-9 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-10 |
| 175.00 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 7-11 | 7-11 |
| 200.00 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 | 10-5 |
| 225.00 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-2 | 13-2 |
| 250.00 | 15-11 | 16-0 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-2 | 16-3 | 16-3 |
| 275.00 | 19-3 | 19-4 | 19-5 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-8 | 19-9 |
| 300.00 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 | 23-5 | 23-5 | 23-6 |
| 325.00 | 27-0 | 27-1 | 27-2 | 27-3 | 27-4 | 27-4 | 27-5 | 27-6 | 27-7 | 27-7 |
| 350.00 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 | 32-0 | 32-1 |
| 375.00 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-9 | 5-9 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-10 | 5-10 |
| 175.00 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 7-11 | 7-11 | 8-0 |
| 200.00 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 |
| 225.00 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-2 |
| 250.00 | 15-11 | 16-0 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 | 16-4 |
| 275.00 | 19-4 | 19-5 | 19-5 | 19-6 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-9 |
| 300.00 | 23-0 | 23-1 | 23-2 | 23-2 | 23-3 | 23-4 | 23-5 | 23-5 | 23-6 | 23-7 |
| 325.00 | 27-1 | 27-2 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-7 | 27-7 | 27-8 |
| 350.00 | 31-5 | 31-6 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 |
| 375.00 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS



OH815.63

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 |
| 225.00 | 13-3 | 13-3 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-4 | 13-4 |
| 250.00 | 16-4 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 | 16-6 |
| 275.00 | 19-9 | 19-10 | 19-10 | 19-10 | 19-11 | 19-11 | 19-11 | 20-0 | 20-0 | 20-0 |
| 300.00 | 23-7 | 23-7 | 23-8 | 23-8 | 23-8 | 23-9 | 23-9 | 23-9 | 23-10 | 23-10 |
| 325.00 | 27-8 | 27-9 | 27-9 | 27-10 | 27-10 | 27-11 | 27-11 | 28-0 | 28-0 | 28-0 |
| 350.00 | 32-2 | 32-3 | 32-3 | 32-4 | 32-4 | 32-5 | 32-5 | 32-6 | 32-6 | 32-7 |
| 375.00 | 37-0 | 37-1 | 37-1 | 37-2 | 37-2 | 37-3 | 37-4 | 37-4 | 37-5 | 37-5 |
| 400.00 | 42-2 | 42-3 | 42-3 | 42-4 | 42-5 | 42-5 | 42-6 | 42-7 | 42-7 | 42-8 |
| 425.00 | 47-8 | 47-9 | 47-10 | 47-11 | 47-11 | 48-0 | 48-1 | 48-2 | 48-2 | 48-3 |
| 450.00 | 53-7 | 53-8 | 53-9 | 53-9 | 53-10 | 53-11 | 54-0 | 54-1 | 54-2 | 54-3 |
| 475.00 | 59-10 | 59-11 | 60-0 | 60-1 | 60-2 | 60-3 | 60-4 | 60-5 | 60-5 | 60-6 |
| 500.00 | 66-5 | 66-6 | 66-7 | 66-8 | 66-9 | 66-11 | 67-0 | 67-1 | 67-2 | 67-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 |
| 225.00 | 13-3 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-4 | 13-4 | 13-5 |
| 250.00 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 | 16-6 |
| 275.00 | 19-10 | 19-10 | 19-10 | 19-11 | 19-11 | 19-11 | 19-11 | 20-0 | 20-0 | 20-0 |
| 300.00 | 23-7 | 23-7 | 23-8 | 23-8 | 23-9 | 23-9 | 23-9 | 23-10 | 23-10 | 23-10 |
| 325.00 | 27-9 | 27-9 | 27-10 | 27-10 | 27-11 | 27-11 | 27-11 | 28-0 | 28-0 | 28-1 |
| 350.00 | 32-2 | 32-3 | 32-3 | 32-4 | 32-5 | 32-5 | 32-6 | 32-6 | 32-7 | 32-7 |
| 375.00 | 37-0 | 37-1 | 37-2 | 37-2 | 37-3 | 37-3 | 37-4 | 37-5 | 37-5 | 37-6 |
| 400.00 | 42-2 | 42-3 | 42-4 | 42-5 | 42-5 | 42-6 | 42-7 | 42-7 | 42-8 | 42-9 |
| 425.00 | 47-9 | 47-10 | 47-10 | 47-11 | 48-0 | 48-1 | 48-2 | 48-2 | 48-3 | 48-4 |
| 450.00 | 53-7 | 53-8 | 53-9 | 53-10 | 53-11 | 54-0 | 54-1 | 54-2 | 54-2 | 54-3 |
| 475.00 | 59-10 | 59-11 | 60-0 | 60-1 | 60-2 | 60-3 | 60-4 | 60-5 | 60-6 | 60-7 |
| 500.00 | 66-6 | 66-7 | 66-8 | 66-9 | 66-10 | 66-11 | 67-0 | 67-2 | 67-3 | 67-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-9 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 | 16-10 |
| 275.00 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 |
| 300.00 | 24-2 | 24-2 | 24-2 | 24-3 | 24-3 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 |
| 325.00 | 28-5 | 28-5 | 28-5 | 28-6 | 28-6 | 28-6 | 28-6 | 28-7 | 28-7 | 28-7 |
| 350.00 | 33-0 | 33-0 | 33-0 | 33-1 | 33-1 | 33-1 | 33-2 | 33-2 | 33-2 | 33-3 |
| 375.00 | 37-11 | 37-11 | 38-0 | 38-0 | 38-1 | 38-1 | 38-1 | 38-2 | 38-2 | 38-2 |
| 400.00 | 43-3 | 43-3 | 43-4 | 43-4 | 43-4 | 43-5 | 43-5 | 43-6 | 43-6 | 43-6 |
| 425.00 | 48-11 | 48-11 | 49-0 | 49-0 | 49-1 | 49-1 | 49-2 | 49-2 | 49-2 | 49-3 |
| 450.00 | 54-11 | 55-0 | 55-0 | 55-1 | 55-1 | 55-2 | 55-2 | 55-3 | 55-3 | 55-4 |
| 475.00 | 61-4 | 61-5 | 61-5 | 61-6 | 61-6 | 61-7 | 61-8 | 61-8 | 61-9 | 61-9 |
| 500.00 | 68-1 | 68-2 | 68-3 | 68-3 | 68-4 | 68-5 | 68-5 | 68-6 | 68-7 | 68-7 |
| 525.00 | 75-3 | 75-4 | 75-5 | 75-6 | 75-6 | 75-7 | 75-8 | 75-9 | 75-9 | 75-10 |
| 550.00 | 82-10 | 82-11 | 83-0 | 83-0 | 83-1 | 83-2 | 83-3 | 83-4 | 83-4 | 83-5 |
| 575.00 | 90-9 | 90-10 | 90-11 | 91-0 | 91-1 | 91-2 | 91-3 | 91-4 | 91-4 | 91-5 |
| 600.00 | 99-1 | 99-2 | 99-3 | 99-4 | 99-5 | 99-6 | 99-7 | 99-8 | 99-9 | 99-10 |
| 625.00 | 107-10 | 107-11 | 108-0 | 108-1 | 108-3 | 108-4 | 108-5 | 108-6 | 108-7 | 108-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 | 16-10 | 16-10 |
| 275.00 | 20-3 | 20-4 | 20-4 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-5 |
| 300.00 | 24-2 | 24-2 | 24-2 | 24-3 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 | 24-4 |
| 325.00 | 28-5 | 28-5 | 28-5 | 28-6 | 28-6 | 28-6 | 28-7 | 28-7 | 28-7 | 28-7 |
| 350.00 | 33-0 | 33-0 | 33-1 | 33-1 | 33-1 | 33-2 | 33-2 | 33-2 | 33-3 | 33-3 |
| 375.00 | 37-11 | 38-0 | 38-0 | 38-0 | 38-1 | 38-1 | 38-2 | 38-2 | 38-2 | 38-3 |
| 400.00 | 43-3 | 43-3 | 43-4 | 43-4 | 43-5 | 43-5 | 43-6 | 43-6 | 43-6 | 43-7 |
| 425.00 | 48-11 | 48-11 | 49-0 | 49-0 | 49-1 | 49-1 | 49-2 | 49-2 | 49-3 | 49-3 |
| 450.00 | 54-11 | 55-0 | 55-1 | 55-1 | 55-2 | 55-2 | 55-3 | 55-3 | 55-4 | 55-4 |
| 475.00 | 61-4 | 61-5 | 61-6 | 61-6 | 61-7 | 61-7 | 61-8 | 61-9 | 61-9 | 61-10 |
| 500.00 | 68-2 | 68-2 | 68-3 | 68-4 | 68-5 | 68-5 | 68-6 | 68-7 | 68-7 | 68-8 |
| 525.00 | 75-4 | 75-5 | 75-5 | 75-6 | 75-7 | 75-8 | 75-8 | 75-9 | 75-10 | 75-11 |
| 550.00 | 82-10 | 82-11 | 83-0 | 83-1 | 83-2 | 83-3 | 83-4 | 83-4 | 83-5 | 83-6 |
| 575.00 | 90-10 | 90-11 | 91-0 | 91-1 | 91-1 | 91-2 | 91-3 | 91-4 | 91-5 | 91-6 |
| 600.00 | 99-2 | 99-3 | 99-4 | 99-5 | 99-6 | 99-7 | 99-8 | 99-9 | 99-10 | 99-11 |
| 625.00 | 107-11 | 108-0 | 108-1 | 108-2 | 108-3 | 108-4 | 108-6 | 108-7 | 108-8 | 108-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 1.92 | 2000 | 1.92 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.51 | 487 | 0.44 | 562 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.84 | 294 | 0.74 | 335 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.96 | 257 | 0.85 | 288 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.07 | 230 | 0.97 | 253 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.18 | 208 | 1.09 | 226 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.29 | 192 | 1.20 | 205 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.39 | 178 | 1.30 | 189 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.48 | 167 | 1.40 | 177 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.56 | 158 | 1.48 | 167 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.64 | 150 | 1.56 | 158 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.72 | 144 | 1.64 | 150 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.79 | 138 | 1.71 | 144 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.04 | 121 | 1.97 | 125 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.31 | 107 | 2.25 | 110 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 7.70 | 2000 | 7.70 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.52 | 152 | 6.43 | 154 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.79 | 146 | 6.70 | 148 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.87 | 144 | 6.79 | 146 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.96 | 142 | 6.88 | 144 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.04 | 141 | 6.97 | 142 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.12 | 139 | 7.05 | 140 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.21 | 137 | 7.13 | 139 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.29 | 136 | 7.21 | 137 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.36 | 135 | 7.28 | 136 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.43 | 133 | 7.35 | 135 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.50 | 132 | 7.43 | 133 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.57 | 131 | 7.50 | 132 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.83 | 127 | 7.76 | 128 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.14 | 122 | 8.06 | 123 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 17.46 | 2000 | 17.46 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.33 | 137 | 16.24 | 138 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.57 | 135 | 16.49 | 136 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.65 | 135 | 16.58 | 135 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.73 | 134 | 16.66 | 135 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.81 | 133 | 16.74 | 134 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.89 | 133 | 16.82 | 133 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.97 | 132 | 16.90 | 133 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 17.05 | 132 | 16.97 | 132 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 17.12 | 131 | 17.04 | 132 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 17.19 | 131 | 17.12 | 131 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 17.26 | 130 | 17.19 | 131 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 17.33 | 130 | 17.26 | 130 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 17.59 | 128 | 17.52 | 128 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 17.90 | 126 | 17.83 | 126 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 31.39 | 2000 | 31.39 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.27 | 133 | 30.18 | 134 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.50 | 132 | 30.43 | 132 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.58 | 132 | 30.51 | 132 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.66 | 132 | 30.59 | 132 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.74 | 131 | 30.67 | 131 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.82 | 131 | 30.75 | 131 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.90 | 131 | 30.83 | 131 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.97 | 130 | 30.90 | 131 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.04 | 130 | 30.97 | 130 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.12 | 130 | 31.04 | 130 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.19 | 129 | 31.11 | 130 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.26 | 129 | 31.18 | 129 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.52 | 128 | 31.44 | 128 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.83 | 127 | 31.75 | 127 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 49.76 | 2000 | 49.76 | 2000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 48.65 | 131 | 48.57 | 132 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 48.88 | 131 | 48.81 | 131 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 48.96 | 131 | 48.89 | 131 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.04 | 130 | 48.97 | 131 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.12 | 130 | 49.05 | 130 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.20 | 130 | 49.13 | 130 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.27 | 130 | 49.20 | 130 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.35 | 130 | 49.27 | 130 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.42 | 129 | 49.34 | 130 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.49 | 129 | 49.42 | 129 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.56 | 129 | 49.49 | 129 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.63 | 129 | 49.56 | 129 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 49.89 | 128 | 49.82 | 129 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 50.21 | 128 | 50.13 | 128 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 100.00 | 0-7 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 |
| 125.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-5 |
| 150.00 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-4 | 3-6 |
| 175.00 | 1-11 | 2-3 | 2-7 | 3-0 | 3-4 | 3-8 | 4-0 | 4-3 | 4-6 | 4-9 |
| 200.00 | 2-6 | 2-11 | 3-5 | 3-11 | 4-4 | 4-10 | 5-3 | 5-7 | 5-11 | 6-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 1-1 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 |
| 150.00 | 1-7 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 |
| 175.00 | 2-2 | 2-7 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 | 4-6 | 4-10 | 5-0 |
| 200.00 | 2-11 | 3-4 | 3-10 | 4-4 | 4-9 | 5-2 | 5-7 | 5-11 | 6-3 | 6-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 |
| 150.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 |
| 175.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 |
| 200.00 | 6-7 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 |
| 225.00 | 8-4 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 |
| 250.00 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 |
| 150.00 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 |
| 175.00 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 |
| 200.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 225.00 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 |
| 250.00 | 10-6 | 10-7 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.70

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 |
| 175.00 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-9 | 5-10 |
| 200.00 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 |
| 225.00 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 |
| 250.00 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 |
| 275.00 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 |
| 300.00 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 |
| 325.00 | 19-3 | 19-4 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 |
| 350.00 | 22-4 | 22-6 | 22-7 | 22-8 | 22-10 | 22-11 | 23-0 | 23-2 | 23-3 | 23-4 |
| 375.00 | 25-8 | 25-10 | 26-0 | 26-1 | 26-3 | 26-4 | 26-6 | 26-7 | 26-8 | 26-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-1 | 4-2 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 | 4-3 |
| 175.00 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 |
| 200.00 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 |
| 225.00 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 |
| 250.00 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 |
| 275.00 | 13-10 | 13-11 | 14-0 | 14-1 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-5 |
| 300.00 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 |
| 325.00 | 19-4 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 |
| 350.00 | 22-6 | 22-7 | 22-8 | 22-10 | 22-11 | 23-0 | 23-2 | 23-3 | 23-4 | 23-5 |
| 375.00 | 25-10 | 25-11 | 26-1 | 26-2 | 26-4 | 26-5 | 26-7 | 26-8 | 26-10 | 26-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.71

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-7 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 | 7-9 |
| 225.00 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 |
| 250.00 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-1 |
| 275.00 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 |
| 300.00 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 |
| 325.00 | 20-0 | 20-0 | 20-1 | 20-2 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 | 20-5 |
| 350.00 | 23-2 | 23-3 | 23-4 | 23-5 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 | 23-9 |
| 375.00 | 26-8 | 26-9 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 |
| 400.00 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-0 |
| 425.00 | 34-3 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-1 |
| 450.00 | 38-6 | 38-7 | 38-8 | 38-10 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 |
| 475.00 | 42-11 | 43-0 | 43-2 | 43-3 | 43-5 | 43-6 | 43-7 | 43-9 | 43-10 | 43-11 |
| 500.00 | 47-7 | 47-9 | 47-10 | 48-0 | 48-2 | 48-3 | 48-5 | 48-6 | 48-7 | 48-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-7 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 |
| 225.00 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 |
| 250.00 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 | 12-1 | 12-1 |
| 275.00 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-8 |
| 300.00 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 | 17-5 |
| 325.00 | 20-0 | 20-1 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 | 20-5 | 20-5 | 20-6 |
| 350.00 | 23-3 | 23-4 | 23-4 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 | 23-9 | 23-9 |
| 375.00 | 26-9 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 | 27-4 |
| 400.00 | 30-5 | 30-6 | 30-7 | 30-8 | 30-9 | 30-10 | 30-11 | 31-0 | 31-1 | 31-1 |
| 425.00 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-1 | 35-2 |
| 450.00 | 38-7 | 38-8 | 38-9 | 38-11 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 | 39-6 |
| 475.00 | 43-0 | 43-2 | 43-3 | 43-4 | 43-6 | 43-7 | 43-9 | 43-10 | 43-11 | 44-0 |
| 500.00 | 47-9 | 47-10 | 48-0 | 48-1 | 48-3 | 48-4 | 48-6 | 48-7 | 48-9 | 48-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.72

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-1 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 |
| 275.00 | 14-7 | 14-8 | 14-8 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 | 14-10 | 14-10 |
| 300.00 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-7 | 17-8 |
| 325.00 | 20-5 | 20-6 | 20-6 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-8 | 20-9 |
| 350.00 | 23-9 | 23-9 | 23-10 | 23-10 | 23-11 | 23-11 | 23-11 | 24-0 | 24-0 | 24-1 |
| 375.00 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-6 | 27-6 | 27-7 | 27-7 | 27-8 |
| 400.00 | 31-1 | 31-1 | 31-2 | 31-2 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-6 |
| 425.00 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 |
| 450.00 | 39-5 | 39-5 | 39-6 | 39-7 | 39-8 | 39-8 | 39-9 | 39-10 | 39-10 | 39-11 |
| 475.00 | 43-11 | 44-0 | 44-1 | 44-2 | 44-3 | 44-3 | 44-4 | 44-5 | 44-6 | 44-7 |
| 500.00 | 48-9 | 48-10 | 48-11 | 49-0 | 49-1 | 49-2 | 49-2 | 49-3 | 49-4 | 49-5 |
| 525.00 | 53-9 | 53-11 | 54-0 | 54-1 | 54-2 | 54-3 | 54-4 | 54-5 | 54-6 | 54-7 |
| 550.00 | 59-1 | 59-3 | 59-4 | 59-5 | 59-6 | 59-7 | 59-8 | 59-9 | 59-10 | 59-11 |
| 575.00 | 64-8 | 64-10 | 64-11 | 65-0 | 65-2 | 65-3 | 65-4 | 65-5 | 65-6 | 65-7 |
| 600.00 | 70-7 | 70-8 | 70-9 | 70-11 | 71-0 | 71-2 | 71-3 | 71-4 | 71-5 | 71-7 |
| 625.00 | 76-8 | 76-10 | 76-11 | 77-1 | 77-2 | 77-4 | 77-5 | 77-6 | 77-8 | 77-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 |
| 275.00 | 14-8 | 14-8 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 | 14-10 | 14-10 | 14-10 |
| 300.00 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 |
| 325.00 | 20-6 | 20-6 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-8 | 20-9 | 20-9 |
| 350.00 | 23-9 | 23-10 | 23-10 | 23-11 | 23-11 | 23-11 | 24-0 | 24-0 | 24-1 | 24-1 |
| 375.00 | 27-4 | 27-4 | 27-5 | 27-5 | 27-6 | 27-6 | 27-7 | 27-7 | 27-8 | 27-8 |
| 400.00 | 31-1 | 31-2 | 31-2 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-6 | 31-6 |
| 425.00 | 35-2 | 35-2 | 35-3 | 35-4 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 |
| 450.00 | 39-5 | 39-6 | 39-7 | 39-8 | 39-8 | 39-9 | 39-10 | 39-11 | 39-11 | 40-0 |
| 475.00 | 44-0 | 44-1 | 44-2 | 44-2 | 44-3 | 44-4 | 44-5 | 44-6 | 44-7 | 44-7 |
| 500.00 | 48-10 | 48-11 | 49-0 | 49-0 | 49-1 | 49-2 | 49-3 | 49-4 | 49-5 | 49-6 |
| 525.00 | 53-11 | 54-0 | 54-1 | 54-2 | 54-3 | 54-4 | 54-5 | 54-6 | 54-7 | 54-8 |
| 550.00 | 59-3 | 59-4 | 59-5 | 59-6 | 59-7 | 59-8 | 59-9 | 59-10 | 59-11 | 60-1 |
| 575.00 | 64-10 | 64-11 | 65-0 | 65-1 | 65-3 | 65-4 | 65-5 | 65-6 | 65-8 | 65-9 |
| 600.00 | 70-8 | 70-9 | 70-11 | 71-0 | 71-1 | 71-3 | 71-4 | 71-6 | 71-7 | 71-8 |
| 625.00 | 76-10 | 76-11 | 77-0 | 77-2 | 77-3 | 77-5 | 77-6 | 77-8 | 77-9 | 77-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 1.53 | 2500 | 1.53 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.17 | 1473 | 0.16 | 1551 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.23 | 1091 | 0.21 | 1191 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.25 | 966 | 0.23 | 1071 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.29 | 844 | 0.26 | 952 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.34 | 727 | 0.29 | 835 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.40 | 616 | 0.34 | 722 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.48 | 515 | 0.40 | 614 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.57 | 429 | 0.48 | 515 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.68 | 360 | 0.57 | 430 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.79 | 313 | 0.68 | 363 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.89 | 276 | 0.78 | 317 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.00 | 248 | 0.88 | 281 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.35 | 183 | 1.24 | 199 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.71 | 144 | 1.62 | 152 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 6.15 | 2500 | 6.15 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.16 | 237 | 3.98 | 248 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.55 | 217 | 4.39 | 225 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.67 | 211 | 4.52 | 219 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.79 | 206 | 4.64 | 213 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.91 | 201 | 4.77 | 207 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.02 | 197 | 4.89 | 202 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.14 | 192 | 5.00 | 197 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.24 | 189 | 5.11 | 193 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.34 | 185 | 5.21 | 189 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.43 | 182 | 5.31 | 186 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.53 | 179 | 5.41 | 183 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.62 | 176 | 5.51 | 179 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.96 | 166 | 5.85 | 169 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.35 | 156 | 6.24 | 158 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 13.90 | 2500 | 13.90 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.08 | 185 | 11.93 | 187 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.40 | 180 | 12.26 | 182 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.51 | 178 | 12.37 | 180 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.61 | 177 | 12.48 | 179 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.72 | 176 | 12.59 | 177 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.82 | 174 | 12.70 | 176 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 12.92 | 173 | 12.80 | 174 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.01 | 172 | 12.90 | 173 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.11 | 170 | 12.99 | 172 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.20 | 169 | 13.08 | 171 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.29 | 168 | 13.18 | 170 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.38 | 167 | 13.27 | 168 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.71 | 163 | 13.60 | 164 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.10 | 159 | 14.00 | 160 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 24.88 | 2500 | 24.88 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.11 | 173 | 22.97 | 174 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.41 | 171 | 23.28 | 172 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.52 | 170 | 23.38 | 171 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.62 | 169 | 23.49 | 170 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.72 | 168 | 23.59 | 169 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.82 | 168 | 23.70 | 169 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 23.91 | 167 | 23.80 | 168 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.00 | 167 | 23.89 | 167 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.10 | 166 | 23.98 | 167 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.19 | 165 | 24.07 | 166 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.28 | 165 | 24.16 | 165 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.36 | 164 | 24.25 | 165 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.69 | 162 | 24.58 | 163 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 25.09 | 160 | 24.98 | 160 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 39.23 | 2500 | 39.23 | 2500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 37.48 | 168 | 37.34 | 169 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 37.78 | 167 | 37.65 | 167 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 37.88 | 166 | 37.75 | 167 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 37.98 | 166 | 37.85 | 166 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 38.07 | 165 | 37.95 | 166 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 38.17 | 165 | 38.05 | 166 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 38.27 | 165 | 38.15 | 165 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 38.36 | 164 | 38.24 | 165 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 38.45 | 164 | 38.33 | 164 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 38.54 | 164 | 38.42 | 164 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 38.63 | 163 | 38.51 | 164 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 38.71 | 163 | 38.60 | 163 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 39.04 | 162 | 38.93 | 162 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 39.44 | 160 | 39.33 | 160 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-6 |
| 175.00 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 | 2-1 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-3 | 2-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-3 | 1-6 | 1-9 | 2-1 | 2-5 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-4 | 2-9 | 3-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS



OH815.77

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 |
| 150.00 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 |
| 175.00 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 200.00 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 |
| 225.00 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 |
| 250.00 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 125.00 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 |
| 150.00 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 |
| 175.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 200.00 | 4-5 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 |
| 225.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 |
| 250.00 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3- 0 | 3- 1 | 3- 1 | 3- 1 | 3- 2 | 3- 2 | 3- 2 | 3- 3 | 3- 3 | 3- 3 |
| 175.00 | 4- 2 | 4- 2 | 4- 2 | 4- 3 | 4- 3 | 4- 4 | 4- 4 | 4- 5 | 4- 5 | 4- 5 |
| 200.00 | 5- 5 | 5- 5 | 5- 6 | 5- 6 | 5- 7 | 5- 8 | 5- 8 | 5- 9 | 5- 9 | 5-10 |
| 225.00 | 6-10 | 6-11 | 6-11 | 7- 0 | 7- 1 | 7- 2 | 7- 2 | 7- 3 | 7- 4 | 7- 4 |
| 250.00 | 8- 5 | 8- 6 | 8- 7 | 8- 8 | 8- 9 | 8-10 | 8-11 | 8-11 | 9- 0 | 9- 1 |
| 275.00 | 10- 2 | 10- 4 | 10- 5 | 10- 6 | 10- 7 | 10- 8 | 10- 9 | 10-10 | 10-11 | 11- 0 |
| 300.00 | 12- 2 | 12- 3 | 12- 4 | 12- 6 | 12- 7 | 12- 8 | 12-10 | 12-11 | 13- 0 | 13- 1 |
| 325.00 | 14- 3 | 14- 5 | 14- 6 | 14- 8 | 14- 9 | 14-11 | 15- 0 | 15- 2 | 15- 3 | 15- 4 |
| 350.00 | 16- 7 | 16- 8 | 16-10 | 17- 0 | 17- 2 | 17- 4 | 17- 5 | 17- 7 | 17- 8 | 17-10 |
| 375.00 | 19- 0 | 19- 2 | 19- 4 | 19- 6 | 19- 8 | 19-10 | 20- 0 | 20- 2 | 20- 4 | 20- 6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3- 1 | 3- 1 | 3- 1 | 3- 2 | 3- 2 | 3- 2 | 3- 3 | 3- 3 | 3- 3 | 3- 4 |
| 175.00 | 4- 2 | 4- 3 | 4- 3 | 4- 3 | 4- 4 | 4- 4 | 4- 5 | 4- 5 | 4- 5 | 4- 6 |
| 200.00 | 5- 5 | 5- 6 | 5- 7 | 5- 7 | 5- 8 | 5- 8 | 5- 9 | 5- 9 | 5-10 | 5-10 |
| 225.00 | 6-11 | 7- 0 | 7- 0 | 7- 1 | 7- 2 | 7- 2 | 7- 3 | 7- 4 | 7- 4 | 7- 5 |
| 250.00 | 8- 6 | 8- 7 | 8- 8 | 8- 9 | 8-10 | 8-11 | 9- 0 | 9- 0 | 9- 1 | 9- 2 |
| 275.00 | 10- 4 | 10- 5 | 10- 6 | 10- 7 | 10- 8 | 10- 9 | 10-10 | 10-11 | 11- 0 | 11- 1 |
| 300.00 | 12- 4 | 12- 5 | 12- 6 | 12- 7 | 12- 9 | 12-10 | 12-11 | 13- 0 | 13- 1 | 13- 2 |
| 325.00 | 14- 5 | 14- 7 | 14- 8 | 14-10 | 14-11 | 15- 1 | 15- 2 | 15- 3 | 15- 5 | 15- 6 |
| 350.00 | 16- 9 | 16-11 | 17- 0 | 17- 2 | 17- 4 | 17- 6 | 17- 7 | 17- 9 | 17-10 | 18- 0 |
| 375.00 | 19- 3 | 19- 5 | 19- 7 | 19- 9 | 19-11 | 20- 1 | 20- 3 | 20- 4 | 20- 6 | 20- 8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS



OH815.79

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5- 9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 6- 0 | 6- 0 |
| 225.00 | 7- 4 | 7- 4 | 7- 5 | 7- 5 | 7- 5 | 7- 6 | 7- 6 | 7- 6 | 7- 7 | 7- 7 |
| 250.00 | 9- 0 | 9- 1 | 9- 1 | 9- 2 | 9- 2 | 9- 3 | 9- 3 | 9- 4 | 9- 4 | 9- 5 |
| 275.00 | 10-11 | 11- 0 | 11- 0 | 11- 1 | 11- 1 | 11- 2 | 11- 3 | 11- 3 | 11- 4 | 11- 4 |
| 300.00 | 13- 0 | 13- 1 | 13- 2 | 13- 2 | 13- 3 | 13- 4 | 13- 4 | 13- 5 | 13- 6 | 13- 6 |
| 325.00 | 15- 3 | 15- 4 | 15- 5 | 15- 6 | 15- 7 | 15- 7 | 15- 8 | 15- 9 | 15-10 | 15-10 |
| 350.00 | 17- 9 | 17-10 | 17-11 | 18- 0 | 18- 1 | 18- 1 | 18- 2 | 18- 3 | 18- 4 | 18- 5 |
| 375.00 | 20- 4 | 20- 5 | 20- 7 | 20- 8 | 20- 9 | 20-10 | 20-11 | 21- 0 | 21- 1 | 21- 2 |
| 400.00 | 23- 2 | 23- 3 | 23- 5 | 23- 6 | 23- 7 | 23- 8 | 23-10 | 23-11 | 24- 0 | 24- 1 |
| 425.00 | 26- 2 | 26- 4 | 26- 5 | 26- 6 | 26- 8 | 26- 9 | 26-11 | 27- 0 | 27- 1 | 27- 2 |
| 450.00 | 29- 4 | 29- 6 | 29- 8 | 29- 9 | 29-11 | 30- 0 | 30- 2 | 30- 3 | 30- 5 | 30- 6 |
| 475.00 | 32- 9 | 32-11 | 33- 0 | 33- 2 | 33- 4 | 33- 6 | 33- 7 | 33- 9 | 33-11 | 34- 0 |
| 500.00 | 36- 4 | 36- 6 | 36- 8 | 36-10 | 37- 0 | 37- 1 | 37- 3 | 37- 5 | 37- 7 | 37- 9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 6- 0 | 6- 0 | 6- 0 |
| 225.00 | 7- 4 | 7- 5 | 7- 5 | 7- 5 | 7- 6 | 7- 6 | 7- 7 | 7- 7 | 7- 7 | 7- 8 |
| 250.00 | 9- 1 | 9- 1 | 9- 2 | 9- 2 | 9- 3 | 9- 3 | 9- 4 | 9- 4 | 9- 5 | 9- 5 |
| 275.00 | 11- 0 | 11- 0 | 11- 1 | 11- 2 | 11- 2 | 11- 3 | 11- 3 | 11- 4 | 11- 4 | 11- 5 |
| 300.00 | 13- 1 | 13- 2 | 13- 2 | 13- 3 | 13- 4 | 13- 4 | 13- 5 | 13- 6 | 13- 6 | 13- 7 |
| 325.00 | 15- 4 | 15- 5 | 15- 6 | 15- 7 | 15- 8 | 15- 8 | 15- 9 | 15-10 | 15-11 | 15-11 |
| 350.00 | 17-10 | 17-11 | 18- 0 | 18- 1 | 18- 2 | 18- 3 | 18- 3 | 18- 4 | 18- 5 | 18- 6 |
| 375.00 | 20- 6 | 20- 7 | 20- 8 | 20- 9 | 20-10 | 20-11 | 21- 0 | 21- 1 | 21- 2 | 21- 3 |
| 400.00 | 23- 4 | 23- 5 | 23- 6 | 23- 7 | 23- 9 | 23-10 | 23-11 | 24- 0 | 24- 1 | 24- 2 |
| 425.00 | 26- 4 | 26- 5 | 26- 7 | 26- 8 | 26- 9 | 26-11 | 27- 0 | 27- 1 | 27- 3 | 27- 4 |
| 450.00 | 29- 6 | 29- 8 | 29-10 | 29-11 | 30- 1 | 30- 2 | 30- 4 | 30- 5 | 30- 6 | 30- 8 |
| 475.00 | 32-11 | 33- 1 | 33- 3 | 33- 4 | 33- 6 | 33- 8 | 33- 9 | 33-11 | 34- 1 | 34- 2 |
| 500.00 | 36- 6 | 36- 8 | 36-10 | 37- 0 | 37- 2 | 37- 4 | 37- 6 | 37- 7 | 37- 9 | 37-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS



OH815.80

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9- 4 | 9- 4 | 9- 5 | 9- 5 | 9- 5 | 9- 6 | 9- 6 | 9- 6 | 9- 6 | 9- 7 |
| 275.00 | 11- 4 | 11- 4 | 11- 4 | 11- 5 | 11- 5 | 11- 5 | 11- 6 | 11- 6 | 11- 6 | 11- 7 |
| 300.00 | 13- 5 | 13- 6 | 13- 6 | 13- 7 | 13- 7 | 13- 8 | 13- 8 | 13- 8 | 13- 9 | 13- 9 |
| 325.00 | 15-10 | 15-10 | 15-11 | 15-11 | 16- 0 | 16- 0 | 16- 1 | 16- 1 | 16- 1 | 16- 2 |
| 350.00 | 18- 4 | 18- 5 | 18- 5 | 18- 6 | 18- 6 | 18- 7 | 18- 7 | 18- 8 | 18- 9 | 18- 9 |
| 375.00 | 21- 1 | 21- 1 | 21- 2 | 21- 3 | 21- 3 | 21- 4 | 21- 5 | 21- 5 | 21- 6 | 21- 6 |
| 400.00 | 24- 0 | 24- 0 | 24- 1 | 24- 2 | 24- 3 | 24- 3 | 24- 4 | 24- 5 | 24- 6 | 24- 6 |
| 425.00 | 27- 1 | 27- 2 | 27- 3 | 27- 3 | 27- 4 | 27- 5 | 27- 6 | 27- 7 | 27- 8 | 27- 8 |
| 450.00 | 30- 4 | 30- 5 | 30- 6 | 30- 7 | 30- 8 | 30- 9 | 30-10 | 30-11 | 31- 0 | 31- 1 |
| 475.00 | 33-10 | 33-11 | 34- 1 | 34- 2 | 34- 3 | 34- 4 | 34- 5 | 34- 6 | 34- 7 | 34- 8 |
| 500.00 | 37- 7 | 37- 8 | 37- 9 | 37-10 | 37-11 | 38- 1 | 38- 2 | 38- 3 | 38- 4 | 38- 5 |
| 525.00 | 41- 5 | 41- 6 | 41- 8 | 41- 9 | 41-10 | 42- 0 | 42- 1 | 42- 2 | 42- 4 | 42- 5 |
| 550.00 | 45- 6 | 45- 7 | 45- 9 | 45-10 | 46- 0 | 46- 1 | 46- 3 | 46- 4 | 46- 6 | 46- 7 |
| 575.00 | 49- 9 | 49-11 | 50- 1 | 50- 2 | 50- 4 | 50- 5 | 50- 7 | 50- 8 | 50-10 | 50-11 |
| 600.00 | 54- 3 | 54- 5 | 54- 6 | 54- 8 | 54-10 | 55- 0 | 55- 2 | 55- 3 | 55- 5 | 55- 6 |
| 625.00 | 58-11 | 59- 1 | 59- 3 | 59- 5 | 59- 7 | 59- 9 | 59-10 | 60- 0 | 60- 2 | 60- 4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9- 4 | 9- 5 | 9- 5 | 9- 5 | 9- 6 | 9- 6 | 9- 6 | 9- 6 | 9- 7 | 9- 7 |
| 275.00 | 11- 4 | 11- 4 | 11- 5 | 11- 5 | 11- 5 | 11- 6 | 11- 6 | 11- 6 | 11- 7 | 11- 7 |
| 300.00 | 13- 6 | 13- 6 | 13- 7 | 13- 7 | 13- 8 | 13- 8 | 13- 9 | 13- 9 | 13- 9 | 13-10 |
| 325.00 | 15-10 | 15-11 | 15-11 | 16- 0 | 16- 0 | 16- 1 | 16- 1 | 16- 2 | 16- 2 | 16- 3 |
| 350.00 | 18- 5 | 18- 5 | 18- 6 | 18- 6 | 18- 7 | 18- 8 | 18- 8 | 18- 9 | 18- 9 | 18-10 |
| 375.00 | 21- 1 | 21- 2 | 21- 3 | 21- 3 | 21- 4 | 21- 5 | 21- 5 | 21- 6 | 21- 7 | 21- 7 |
| 400.00 | 24- 1 | 24- 1 | 24- 2 | 24- 3 | 24- 4 | 24- 4 | 24- 5 | 24- 6 | 24- 6 | 24- 7 |
| 425.00 | 27- 2 | 27- 3 | 27- 4 | 27- 5 | 27- 5 | 27- 6 | 27- 7 | 27- 8 | 27- 9 | 27- 9 |
| 450.00 | 30- 6 | 30- 7 | 30- 8 | 30- 9 | 30-10 | 30-10 | 30-11 | 31- 0 | 31- 1 | 31- 2 |
| 475.00 | 34- 0 | 34- 1 | 34- 2 | 34- 3 | 34- 4 | 34- 5 | 34- 6 | 34- 7 | 34- 8 | 34- 9 |
| 500.00 | 37- 8 | 37- 9 | 37-11 | 38- 0 | 38- 1 | 38- 2 | 38- 3 | 38- 4 | 38- 5 | 38- 6 |
| 525.00 | 41- 7 | 41- 8 | 41- 9 | 41-11 | 42- 0 | 42- 1 | 42- 3 | 42- 4 | 42- 5 | 42- 6 |
| 550.00 | 45- 8 | 45- 9 | 45-11 | 46- 0 | 46- 2 | 46- 3 | 46- 5 | 46- 6 | 46- 7 | 46- 8 |
| 575.00 | 49-11 | 50- 1 | 50- 3 | 50- 4 | 50- 6 | 50- 7 | 50- 9 | 50-10 | 51- 0 | 51- 1 |
| 600.00 | 54- 5 | 54- 7 | 54- 9 | 54-10 | 55- 0 | 55- 2 | 55- 4 | 55- 5 | 55- 7 | 55- 8 |
| 625.00 | 59- 1 | 59- 3 | 59- 5 | 59- 7 | 59- 9 | 59-11 | 60- 1 | 60- 2 | 60- 4 | 60- 6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 1.28 | 3000 | 1.28 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.11 | 2284 | 0.10 | 2355 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.13 | 1894 | 0.12 | 2002 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.14 | 1764 | 0.13 | 1882 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.15 | 1635 | 0.14 | 1761 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.16 | 1506 | 0.15 | 1639 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.18 | 1377 | 0.16 | 1517 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.20 | 1250 | 0.18 | 1394 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.22 | 1123 | 0.19 | 1271 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.25 | 998 | 0.21 | 1148 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.28 | 875 | 0.24 | 1026 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.33 | 756 | 0.27 | 905 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.37 | 659 | 0.31 | 787 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.65 | 379 | 0.54 | 458 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.11 | 222 | 0.97 | 255 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 5.12 | 3000 | 5.12 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.92 | 513 | 1.64 | 603 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.49 | 396 | 2.19 | 450 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.67 | 369 | 2.38 | 415 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.85 | 346 | 2.56 | 385 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.02 | 327 | 2.74 | 359 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.18 | 310 | 2.92 | 337 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.33 | 296 | 3.09 | 319 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.47 | 284 | 3.26 | 303 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.61 | 273 | 3.42 | 289 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.74 | 264 | 3.55 | 278 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.87 | 255 | 3.69 | 268 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.00 | 247 | 3.82 | 258 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.44 | 222 | 4.27 | 231 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 4.94 | 200 | 4.78 | 207 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.82

TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 11.55 | 3000 | 11.55 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.80 | 253 | 8.54 | 260 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.23 | 241 | 8.99 | 248 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.37 | 238 | 9.13 | 244 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.51 | 234 | 9.28 | 240 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.64 | 231 | 9.42 | 236 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.77 | 228 | 9.56 | 233 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.89 | 225 | 9.70 | 230 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.01 | 222 | 9.83 | 226 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.12 | 220 | 9.95 | 224 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.24 | 217 | 10.07 | 221 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.36 | 215 | 10.19 | 219 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.47 | 213 | 10.30 | 216 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 10.89 | 205 | 10.72 | 208 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 11.37 | 196 | 11.21 | 199 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 20.64 | 3000 | 20.64 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 18.02 | 220 | 17.78 | 223 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 18.40 | 216 | 18.18 | 218 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 18.53 | 214 | 18.31 | 217 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 18.66 | 213 | 18.44 | 215 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 18.78 | 212 | 18.58 | 214 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 18.90 | 210 | 18.70 | 212 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 19.01 | 209 | 18.83 | 211 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 19.12 | 208 | 18.96 | 210 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 19.24 | 207 | 19.07 | 208 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 19.35 | 206 | 19.18 | 207 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 19.46 | 204 | 19.29 | 206 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 19.57 | 203 | 19.40 | 205 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 19.97 | 199 | 19.81 | 201 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 20.45 | 195 | 20.29 | 196 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 32.44 | 3000 | 32.44 | 3000* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 29.88 | 209 | 29.65 | 211 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.25 | 207 | 30.04 | 208 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.37 | 206 | 30.16 | 207 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.49 | 205 | 30.29 | 206 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.61 | 204 | 30.41 | 205 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.72 | 203 | 30.54 | 205 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.83 | 203 | 30.66 | 204 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 30.95 | 202 | 30.78 | 203 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.05 | 201 | 30.89 | 202 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.16 | 201 | 31.00 | 202 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.27 | 200 | 31.11 | 201 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.38 | 199 | 31.22 | 200 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 31.78 | 197 | 31.62 | 198 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 32.26 | 194 | 32.10 | 195 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-11 | 1-0 | 1-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.85

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 |
| 200.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 |
| 225.00 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-6 |
| 250.00 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 |
| 150.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 175.00 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 |
| 225.00 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-9 |
| 250.00 | 3-7 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.86

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 |
| 175.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 |
| 200.00 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 |
| 225.00 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 250.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 |
| 275.00 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 | 8-6 |
| 300.00 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 |
| 325.00 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-6 | 11-8 | 11-10 |
| 350.00 | 12-0 | 12-3 | 12-5 | 12-8 | 12-10 | 13-0 | 13-2 | 13-5 | 13-7 | 13-9 |
| 375.00 | 13-10 | 14-1 | 14-3 | 14-6 | 14-9 | 14-11 | 15-2 | 15-4 | 15-7 | 15-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 |
| 175.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 200.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 |
| 225.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 |
| 250.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 275.00 | 7-8 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 |
| 300.00 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-9 | 9-11 | 10-0 | 10-1 | 10-3 |
| 325.00 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-7 | 11-9 | 11-11 | 12-0 |
| 350.00 | 12-4 | 12-7 | 12-9 | 12-11 | 13-2 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 |
| 375.00 | 14-2 | 14-5 | 14-8 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-10 | 16-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.87

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 |
| 225.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 |
| 250.00 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 |
| 275.00 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 |
| 300.00 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-9 |
| 325.00 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 |
| 350.00 | 13-10 | 13-11 | 14-0 | 14-1 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 |
| 375.00 | 15-10 | 16-0 | 16-1 | 16-2 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 | 16-10 |
| 400.00 | 18-1 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 |
| 425.00 | 20-5 | 20-6 | 20-8 | 20-10 | 21-0 | 21-1 | 21-3 | 21-5 | 21-6 | 21-8 |
| 450.00 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 | 23-10 | 24-0 | 24-2 | 24-4 |
| 475.00 | 25-6 | 25-8 | 25-10 | 26-0 | 26-3 | 26-5 | 26-7 | 26-9 | 26-11 | 27-1 |
| 500.00 | 28-3 | 28-5 | 28-8 | 28-10 | 29-1 | 29-3 | 29-6 | 29-8 | 29-10 | 30-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 |
| 225.00 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 |
| 250.00 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 |
| 275.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 |
| 300.00 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 |
| 325.00 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 | 12-9 |
| 350.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-7 | 14-8 | 14-9 | 14-10 |
| 375.00 | 16-1 | 16-2 | 16-3 | 16-5 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 |
| 400.00 | 18-3 | 18-5 | 18-6 | 18-8 | 18-9 | 18-11 | 19-0 | 19-1 | 19-3 | 19-4 |
| 425.00 | 20-8 | 20-9 | 20-11 | 21-1 | 21-3 | 21-4 | 21-6 | 21-7 | 21-9 | 21-10 |
| 450.00 | 23-2 | 23-4 | 23-6 | 23-8 | 23-9 | 23-11 | 24-1 | 24-3 | 24-4 | 24-6 |
| 475.00 | 25-10 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 | 26-10 | 27-0 | 27-2 | 27-4 |
| 500.00 | 28-7 | 28-10 | 29-0 | 29-2 | 29-5 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-9 |
| 275.00 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 |
| 300.00 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 |
| 325.00 | 12-7 | 12-8 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 |
| 350.00 | 14-7 | 14-8 | 14-9 | 14-10 | 14-10 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 |
| 375.00 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-3 | 17-4 | 17-5 |
| 400.00 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 |
| 425.00 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-3 | 22-3 | 22-4 |
| 450.00 | 24-2 | 24-4 | 24-5 | 24-6 | 24-7 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 |
| 475.00 | 27-0 | 27-1 | 27-3 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 | 27-10 | 28-0 |
| 500.00 | 29-11 | 30-0 | 30-2 | 30-3 | 30-5 | 30-6 | 30-8 | 30-9 | 30-11 | 31-0 |
| 525.00 | 33-0 | 33-2 | 33-3 | 33-5 | 33-7 | 33-8 | 33-10 | 33-11 | 34-1 | 34-2 |
| 550.00 | 36-3 | 36-5 | 36-6 | 36-8 | 36-10 | 37-0 | 37-2 | 37-3 | 37-5 | 37-7 |
| 575.00 | 39-7 | 39-9 | 39-11 | 40-1 | 40-3 | 40-5 | 40-7 | 40-9 | 40-11 | 41-1 |
| 600.00 | 43-2 | 43-4 | 43-6 | 43-8 | 43-11 | 44-1 | 44-3 | 44-5 | 44-7 | 44-9 |
| 625.00 | 46-10 | 47-1 | 47-3 | 47-5 | 47-8 | 47-10 | 48-1 | 48-3 | 48-5 | 48-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 |
| 275.00 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 | 9-4 | 9-5 |
| 300.00 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 |
| 325.00 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 |
| 350.00 | 14-9 | 14-9 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 | 15-3 |
| 375.00 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 |
| 400.00 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 | 19-11 |
| 425.00 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 |
| 450.00 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 | 25-2 | 25-3 |
| 475.00 | 27-2 | 27-3 | 27-5 | 27-6 | 27-7 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 |
| 500.00 | 30-2 | 30-3 | 30-4 | 30-6 | 30-7 | 30-9 | 30-10 | 30-11 | 31-1 | 31-2 |
| 525.00 | 33-3 | 33-4 | 33-6 | 33-8 | 33-9 | 33-11 | 34-0 | 34-2 | 34-3 | 34-5 |
| 550.00 | 36-6 | 36-8 | 36-9 | 36-11 | 37-1 | 37-3 | 37-4 | 37-6 | 37-7 | 37-9 |
| 575.00 | 39-11 | 40-1 | 40-3 | 40-5 | 40-7 | 40-8 | 40-10 | 41-0 | 41-2 | 41-3 |
| 600.00 | 43-6 | 43-8 | 43-10 | 44-0 | 44-2 | 44-4 | 44-6 | 44-8 | 44-10 | 45-0 |
| 625.00 | 47-2 | 47-5 | 47-7 | 47-9 | 48-0 | 48-2 | 48-4 | 48-6 | 48-8 | 48-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 1.09 | 3500 | 1.09 | 3500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.08 | 2973 | 0.08 | 3041 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.10 | 2582 | 0.09 | 2703 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.10 | 2451 | 0.10 | 2587 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.11 | 2321 | 0.10 | 2470 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.11 | 2191 | 0.10 | 2352 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.12 | 2061 | 0.11 | 2233 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.13 | 1931 | 0.12 | 2112 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.14 | 1801 | 0.12 | 1991 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.15 | 1672 | 0.13 | 1868 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.16 | 1543 | 0.14 | 1745 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.17 | 1414 | 0.15 | 1620 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.19 | 1286 | 0.16 | 1496 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.28 | 883 | 0.24 | 1033 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.51 | 482 | 0.41 | 599 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 4.38 | 3500 | 4.38 | 3500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.69 | 1428 | 0.61 | 1621 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 0.92 | 1076 | 0.77 | 1279 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.02 | 967 | 0.84 | 1167 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.14 | 865 | 0.93 | 1059 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.28 | 771 | 1.03 | 955 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.43 | 687 | 1.15 | 856 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.60 | 615 | 1.29 | 765 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.76 | 560 | 1.44 | 683 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 1.92 | 513 | 1.61 | 611 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.09 | 473 | 1.80 | 549 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.25 | 438 | 1.99 | 496 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 2.42 | 408 | 2.16 | 457 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.00 | 328 | 2.75 | 359 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 3.65 | 270 | 3.41 | 289 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 9.89 | 3500 | 9.89 | 3500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 5.84 | 380 | 5.38 | 413 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.44 | 345 | 6.01 | 370 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.63 | 335 | 6.21 | 358 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.80 | 327 | 6.40 | 347 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 6.96 | 319 | 6.60 | 337 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.13 | 312 | 6.79 | 327 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.28 | 305 | 6.97 | 319 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.44 | 299 | 7.15 | 311 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.59 | 293 | 7.33 | 303 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.74 | 287 | 7.48 | 297 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 7.89 | 282 | 7.63 | 291 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.04 | 277 | 7.78 | 286 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 8.56 | 260 | 8.31 | 267 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 9.15 | 243 | 8.92 | 249 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 17.64 | 3500 | 17.64 | 3500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 13.94 | 284 | 13.55 | 292 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.43 | 275 | 14.06 | 282 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.58 | 272 | 14.23 | 278 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.73 | 269 | 14.39 | 275 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 14.87 | 266 | 14.56 | 272 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.01 | 264 | 14.72 | 269 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.15 | 262 | 14.88 | 266 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.29 | 259 | 15.04 | 263 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.43 | 257 | 15.18 | 261 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.57 | 255 | 15.32 | 259 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.70 | 252 | 15.46 | 256 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 15.84 | 250 | 15.60 | 254 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.33 | 243 | 16.09 | 246 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 16.91 | 235 | 16.68 | 238 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0.0 | 1.00G | 12.00 | 0.00 | 3.063 | 27.68 | 3500 | 27.68 | 3500* |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.11 | 258 | 23.76 | 261 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.57 | 253 | 24.22 | 257 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.71 | 252 | 24.38 | 255 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.84 | 250 | 24.53 | 253 |
| 60.0 | 0.00 | 0.00 | 0.00 | 0.197 | 24.98 | 249 | 24.69 | 252 |
| 70.0 | 0.00 | 0.00 | 0.00 | 0.197 | 25.11 | 248 | 24.84 | 250 |
| 80.0 | 0.00 | 0.00 | 0.00 | 0.197 | 25.25 | 246 | 24.99 | 249 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.197 | 25.38 | 245 | 25.14 | 247 |
| 100.0 | 0.00 | 0.00 | 0.00 | 0.197 | 25.51 | 244 | 25.28 | 246 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.197 | 25.64 | 243 | 25.41 | 245 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.197 | 25.78 | 241 | 25.54 | 244 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.197 | 25.91 | 240 | 25.67 | 242 |
| 167.0 | 0.00 | 0.00 | 0.00 | 0.197 | 26.38 | 236 | 26.15 | 238 |
| 212.0 | 0.00 | 0.00 | 0.00 | 0.197 | 26.95 | 231 | 26.73 | 233 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.93

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 | 2-3 |
| 250.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 175.00 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 |
| 225.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 |
| 250.00 | 1-4 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.94

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 |
| 175.00 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-7 |
| 200.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 225.00 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 250.00 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 |
| 275.00 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 |
| 300.00 | 5-10 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 |
| 325.00 | 6-10 | 7-1 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-7 | 8-9 |
| 350.00 | 7-11 | 8-2 | 8-5 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-2 |
| 375.00 | 9-1 | 9-5 | 9-8 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 | 11-5 | 11-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 |
| 175.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 |
| 200.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 |
| 225.00 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 250.00 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-1 | 5-2 | 5-3 | 5-4 |
| 275.00 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 |
| 300.00 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 | 7-5 | 7-7 | 7-9 |
| 325.00 | 7-4 | 7-7 | 7-9 | 8-0 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 | 9-1 |
| 350.00 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-8 | 9-11 | 10-2 | 10-4 | 10-6 |
| 375.00 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-2 | 11-5 | 11-8 | 11-10 | 12-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.95

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 |
| 225.00 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 |
| 250.00 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 |
| 275.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 |
| 300.00 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 325.00 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 |
| 350.00 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 |
| 375.00 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 | 12-11 | 13-1 | 13-3 | 13-4 | 13-6 |
| 400.00 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-0 | 15-2 | 15-4 |
| 425.00 | 15-8 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 | 16-10 | 17-0 | 17-2 | 17-4 |
| 450.00 | 17-7 | 17-10 | 18-0 | 18-3 | 18-5 | 18-8 | 18-10 | 19-1 | 19-3 | 19-5 |
| 475.00 | 19-7 | 19-10 | 20-1 | 20-4 | 20-6 | 20-9 | 21-0 | 21-3 | 21-5 | 21-8 |
| 500.00 | 21-9 | 22-0 | 22-3 | 22-6 | 22-9 | 23-0 | 23-3 | 23-6 | 23-9 | 24-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 |
| 225.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 |
| 250.00 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 |
| 275.00 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 |
| 300.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 325.00 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 |
| 350.00 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 |
| 375.00 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 |
| 400.00 | 14-3 | 14-5 | 14-7 | 14-9 | 14-10 | 15-0 | 15-2 | 15-3 | 15-5 | 15-7 |
| 425.00 | 16-1 | 16-3 | 16-6 | 16-8 | 16-9 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 |
| 450.00 | 18-1 | 18-3 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-4 | 19-6 | 19-9 |
| 475.00 | 20-2 | 20-4 | 20-7 | 20-9 | 21-0 | 21-2 | 21-5 | 21-7 | 21-9 | 22-0 |
| 500.00 | 22-4 | 22-7 | 22-10 | 23-0 | 23-3 | 23-6 | 23-8 | 23-11 | 24-2 | 24-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.96

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 |
| 275.00 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 |
| 300.00 | 8-8 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 |
| 325.00 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-9 |
| 350.00 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 |
| 375.00 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 |
| 400.00 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 |
| 425.00 | 17-5 | 17-6 | 17-7 | 17-9 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 |
| 450.00 | 19-6 | 19-7 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 |
| 475.00 | 21-9 | 21-10 | 22-0 | 22-2 | 22-3 | 22-5 | 22-7 | 22-8 | 22-10 | 22-11 |
| 500.00 | 24-1 | 24-3 | 24-5 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-3 | 25-5 |
| 525.00 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-9 | 27-11 | 28-0 |
| 550.00 | 29-2 | 29-4 | 29-6 | 29-8 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 |
| 575.00 | 31-10 | 32-1 | 32-3 | 32-6 | 32-8 | 32-11 | 33-1 | 33-3 | 33-6 | 33-8 |
| 600.00 | 34-8 | 34-11 | 35-2 | 35-5 | 35-7 | 35-10 | 36-0 | 36-3 | 36-5 | 36-8 |
| 625.00 | 37-8 | 37-11 | 38-2 | 38-5 | 38-8 | 38-11 | 39-1 | 39-4 | 39-7 | 39-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-1 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 |
| 275.00 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 |
| 300.00 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 |
| 325.00 | 10-4 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 |
| 350.00 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 |
| 375.00 | 13-9 | 13-10 | 13-11 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 |
| 400.00 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 |
| 425.00 | 17-7 | 17-9 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 |
| 450.00 | 19-9 | 19-11 | 20-0 | 20-1 | 20-3 | 20-4 | 20-5 | 20-7 | 20-8 | 20-9 |
| 475.00 | 22-0 | 22-2 | 22-4 | 22-5 | 22-6 | 22-8 | 22-9 | 22-11 | 23-0 | 23-2 |
| 500.00 | 24-5 | 24-7 | 24-9 | 24-10 | 25-0 | 25-1 | 25-3 | 25-5 | 25-6 | 25-8 |
| 525.00 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-8 | 27-10 | 28-0 | 28-2 | 28-3 |
| 550.00 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 |
| 575.00 | 32-4 | 32-6 | 32-9 | 32-11 | 33-1 | 33-3 | 33-5 | 33-7 | 33-9 | 33-11 |
| 600.00 | 35-2 | 35-5 | 35-8 | 35-10 | 36-0 | 36-3 | 36-5 | 36-7 | 36-10 | 37-0 |
| 625.00 | 38-3 | 38-5 | 38-8 | 38-11 | 39-1 | 39-4 | 39-6 | 39-9 | 39-11 | 40-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 0.5 | 1000 | 0.5 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.21 | 1161 | 0.21 | 1161 |
| 30 | 0 | 0 | 0 | 0.197 | 0.31 | 801 | 0.3 | 811 |
| 40 | 0 | 0 | 0 | 0.197 | 0.36 | 685 | 0.35 | 699 |
| 50 | 0 | 0 | 0 | 0.197 | 0.43 | 578 | 0.41 | 594 |
| 60 | 0 | 0 | 0 | 0.197 | 0.51 | 482 | 0.49 | 499 |
| 70 | 0 | 0 | 0 | 0.197 | 0.61 | 402 | 0.59 | 417 |
| 80 | 0 | 0 | 0 | 0.197 | 0.73 | 339 | 0.7 | 351 |
| 90 | 0 | 0 | 0 | 0.197 | 0.85 | 291 | 0.82 | 300 |
| 100 | 0 | 0 | 0 | 0.197 | 0.96 | 255 | 0.93 | 264 |
| 110 | 0 | 0 | 0 | 0.197 | 1.08 | 228 | 1.03 | 238 |
| 120 | 0 | 0 | 0 | 0.197 | 1.18 | 209 | 1.13 | 218 |
| 130 | 0 | 0 | 0 | 0.197 | 1.27 | 193 | 1.23 | 201 |
| 167 | 0 | 0 | 0 | 0.197 | 1.59 | 155 | 1.54 | 160 |
| 212 | 0 | 0 | 0 | 0.197 | 1.92 | 129 | 1.88 | 131 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 2 | 1000 | 2 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 1.05 | 941 | 1.04 | 945 |
| 30 | 0 | 0 | 0 | 0.197 | 1.47 | 668 | 1.45 | 679 |
| 40 | 0 | 0 | 0 | 0.197 | 1.65 | 598 | 1.62 | 609 |
| 50 | 0 | 0 | 0 | 0.197 | 1.83 | 538 | 1.8 | 548 |
| 60 | 0 | 0 | 0 | 0.197 | 2.02 | 488 | 1.99 | 496 |
| 70 | 0 | 0 | 0 | 0.197 | 2.21 | 446 | 2.18 | 453 |
| 80 | 0 | 0 | 0 | 0.197 | 2.4 | 411 | 2.37 | 417 |
| 90 | 0 | 0 | 0 | 0.197 | 2.58 | 382 | 2.55 | 386 |
| 100 | 0 | 0 | 0 | 0.197 | 2.76 | 357 | 2.74 | 360 |
| 110 | 0 | 0 | 0 | 0.197 | 2.94 | 336 | 2.9 | 340 |
| 120 | 0 | 0 | 0 | 0.197 | 3.11 | 318 | 3.05 | 323 |
| 130 | 0 | 0 | 0 | 0.197 | 3.26 | 303 | 3.2 | 308 |
| 167 | 0 | 0 | 0 | 0.197 | 3.77 | 262 | 3.71 | 266 |
| 212 | 0 | 0 | 0 | 0.197 | 4.33 | 228 | 4.27 | 231 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 4.5 | 1000 | 4.5 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 3.05 | 726 | 3.02 | 735 |
| 30 | 0 | 0 | 0 | 0.197 | 3.8 | 584 | 3.75 | 591 |
| 40 | 0 | 0 | 0 | 0.197 | 4.04 | 548 | 4 | 555 |
| 50 | 0 | 0 | 0 | 0.197 | 4.29 | 517 | 4.24 | 523 |
| 60 | 0 | 0 | 0 | 0.197 | 4.53 | 490 | 4.48 | 495 |
| 70 | 0 | 0 | 0 | 0.197 | 4.76 | 466 | 4.72 | 470 |
| 80 | 0 | 0 | 0 | 0.197 | 4.99 | 445 | 4.95 | 448 |
| 90 | 0 | 0 | 0 | 0.197 | 5.21 | 426 | 5.18 | 428 |
| 100 | 0 | 0 | 0 | 0.197 | 5.43 | 409 | 5.4 | 411 |
| 110 | 0 | 0 | 0 | 0.197 | 5.64 | 393 | 5.62 | 395 |
| 120 | 0 | 0 | 0 | 0.197 | 5.85 | 380 | 5.81 | 382 |
| 130 | 0 | 0 | 0 | 0.197 | 6.05 | 367 | 5.99 | 371 |
| 167 | 0 | 0 | 0 | 0.197 | 6.69 | 332 | 6.63 | 335 |
| 212 | 0 | 0 | 0 | 0.197 | 7.42 | 300 | 7.35 | 302 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 8 | 1000 | 8 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 6.38 | 618 | 6.32 | 624 |
| 30 | 0 | 0 | 0 | 0.197 | 7.23 | 546 | 7.17 | 550 |
| 40 | 0 | 0 | 0 | 0.197 | 7.5 | 526 | 7.45 | 530 |
| 50 | 0 | 0 | 0 | 0.197 | 7.77 | 508 | 7.72 | 511 |
| 60 | 0 | 0 | 0 | 0.197 | 8.03 | 491 | 7.98 | 494 |
| 70 | 0 | 0 | 0 | 0.197 | 8.29 | 476 | 8.25 | 479 |
| 80 | 0 | 0 | 0 | 0.197 | 8.54 | 462 | 8.5 | 464 |
| 90 | 0 | 0 | 0 | 0.197 | 8.79 | 449 | 8.75 | 451 |
| 100 | 0 | 0 | 0 | 0.197 | 9.03 | 437 | 9 | 439 |
| 110 | 0 | 0 | 0 | 0.197 | 9.26 | 426 | 9.24 | 427 |
| 120 | 0 | 0 | 0 | 0.197 | 9.5 | 416 | 9.46 | 417 |
| 130 | 0 | 0 | 0 | 0.197 | 9.73 | 406 | 9.67 | 408 |
| 167 | 0 | 0 | 0 | 0.197 | 10.47 | 377 | 10.4 | 380 |
| 212 | 0 | 0 | 0 | 0.197 | 11.31 | 349 | 11.24 | 352 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 12.51 | 1000 | 12.51 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 10.83 | 569 | 10.76 | 573 |
| 30 | 0 | 0 | 0 | 0.197 | 11.71 | 527 | 11.65 | 530 |
| 40 | 0 | 0 | 0 | 0.197 | 11.99 | 514 | 11.93 | 517 |
| 50 | 0 | 0 | 0 | 0.197 | 12.27 | 503 | 12.22 | 505 |
| 60 | 0 | 0 | 0 | 0.197 | 12.55 | 492 | 12.5 | 494 |
| 70 | 0 | 0 | 0 | 0.197 | 12.81 | 482 | 12.77 | 483 |
| 80 | 0 | 0 | 0 | 0.197 | 13.08 | 472 | 13.04 | 473 |
| 90 | 0 | 0 | 0 | 0.197 | 13.34 | 463 | 13.3 | 464 |
| 100 | 0 | 0 | 0 | 0.197 | 13.6 | 454 | 13.57 | 455 |
| 110 | 0 | 0 | 0 | 0.197 | 13.85 | 446 | 13.83 | 447 |
| 120 | 0 | 0 | 0 | 0.197 | 14.1 | 438 | 14.07 | 439 |
| 130 | 0 | 0 | 0 | 0.197 | 14.34 | 431 | 14.29 | 432 |
| 167 | 0 | 0 | 0 | 0.197 | 15.16 | 408 | 15.09 | 409 |
| 212 | 0 | 0 | 0 | 0.197 | 16.09 | 384 | 16.02 | 386 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-0 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 |
| 150.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-1 | 2-4 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-10 | 2-2 | 2-6 | 2-10 | 3-2 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-8 | 2-0 | 2-4 | 2-10 | 3-3 | 3-9 | 4-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-1 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-2 | 1-4 | 1-6 | 1-8 |
| 150.00 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-4 | 1-7 | 1-11 | 2-3 | 2-7 | 2-11 | 3-4 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-8 | 2-1 | 2-5 | 2-11 | 3-5 | 3-10 | 4-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.101

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 |
| 175.00 | 1-0 | 1-1 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 200.00 | 1-4 | 1-5 | 1-7 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 |
| 225.00 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 |
| 250.00 | 2-0 | 2-3 | 2-6 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 175.00 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 |
| 200.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 225.00 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 |
| 250.00 | 2-1 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 175.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 |
| 225.00 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 |
| 250.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 |
| 275.00 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 | 4-6 | 4-9 |
| 300.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 |
| 325.00 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 |
| 350.00 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-4 | 7-8 |
| 375.00 | 5-6 | 5-10 | 6-3 | 6-8 | 7-0 | 7-5 | 7-9 | 8-1 | 8-5 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 175.00 | 1-2 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 225.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 |
| 250.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 |
| 275.00 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 |
| 300.00 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 |
| 325.00 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 |
| 350.00 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 | 7-5 | 7-8 |
| 375.00 | 5-7 | 5-11 | 6-4 | 6-8 | 7-1 | 7-5 | 7-10 | 8-2 | 8-6 | 8-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 250.00 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 275.00 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 |
| 300.00 | 3-11 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 |
| 325.00 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 350.00 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 |
| 375.00 | 6-1 | 6-4 | 6-7 | 6-9 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 | 8-1 |
| 400.00 | 6-11 | 7-2 | 7-5 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 |
| 425.00 | 7-9 | 8-1 | 8-5 | 8-9 | 9-0 | 9-4 | 9-7 | 9-11 | 10-2 | 10-5 |
| 450.00 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-9 | 11-1 | 11-5 | 11-8 |
| 475.00 | 9-9 | 10-1 | 10-6 | 10-11 | 11-3 | 11-8 | 12-0 | 12-4 | 12-8 | 13-0 |
| 500.00 | 10-9 | 11-3 | 11-8 | 12-1 | 12-6 | 12-11 | 13-3 | 13-8 | 14-1 | 14-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 |
| 225.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 250.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 275.00 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 |
| 300.00 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 |
| 325.00 | 4-7 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 |
| 350.00 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 |
| 375.00 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 |
| 400.00 | 6-11 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 |
| 425.00 | 7-10 | 8-2 | 8-6 | 8-9 | 9-1 | 9-4 | 9-8 | 9-11 | 10-2 | 10-6 |
| 450.00 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 | 11-1 | 11-5 | 11-9 |
| 475.00 | 9-10 | 10-2 | 10-7 | 11-0 | 11-4 | 11-8 | 12-1 | 12-5 | 12-9 | 13-1 |
| 500.00 | 10-10 | 11-4 | 11-9 | 12-2 | 12-7 | 12-11 | 13-4 | 13-9 | 14-1 | 14-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 |
| 275.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 300.00 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 |
| 325.00 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 |
| 350.00 | 5-7 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 |
| 375.00 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-9 |
| 400.00 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 |
| 425.00 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 |
| 450.00 | 9-2 | 9-5 | 9-8 | 9-11 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 | 11-2 |
| 475.00 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 |
| 500.00 | 11-4 | 11-8 | 11-11 | 12-3 | 12-6 | 12-9 | 13-0 | 13-4 | 13-7 | 13-10 |
| 525.00 | 12-6 | 12-10 | 13-2 | 13-6 | 13-9 | 14-1 | 14-5 | 14-8 | 15-0 | 15-3 |
| 550.00 | 13-9 | 14-1 | 14-5 | 14-9 | 15-1 | 15-5 | 15-9 | 16-1 | 16-5 | 16-9 |
| 575.00 | 15-0 | 15-5 | 15-9 | 16-2 | 16-6 | 16-11 | 17-3 | 17-7 | 17-11 | 18-3 |
| 600.00 | 16-4 | 16-9 | 17-2 | 17-7 | 18-0 | 18-5 | 18-9 | 19-2 | 19-7 | 19-11 |
| 625.00 | 17-9 | 18-2 | 18-8 | 19-1 | 19-6 | 20-0 | 20-5 | 20-10 | 21-3 | 21-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 275.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 300.00 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 |
| 325.00 | 4-10 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 |
| 350.00 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-6 | 6-8 | 6-9 |
| 375.00 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-6 | 7-8 | 7-9 |
| 400.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 |
| 425.00 | 8-3 | 8-6 | 8-8 | 8-10 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-0 |
| 450.00 | 9-3 | 9-6 | 9-9 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 | 11-0 | 11-3 |
| 475.00 | 10-4 | 10-7 | 10-10 | 11-1 | 11-4 | 11-7 | 11-10 | 12-0 | 12-3 | 12-6 |
| 500.00 | 11-5 | 11-9 | 12-0 | 12-3 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 |
| 525.00 | 12-7 | 12-11 | 13-3 | 13-6 | 13-10 | 14-2 | 14-5 | 14-9 | 15-0 | 15-3 |
| 550.00 | 13-10 | 14-2 | 14-6 | 14-10 | 15-2 | 15-6 | 15-10 | 16-2 | 16-5 | 16-9 |
| 575.00 | 15-1 | 15-6 | 15-10 | 16-3 | 16-7 | 16-11 | 17-4 | 17-8 | 18-0 | 18-4 |
| 600.00 | 16-5 | 16-10 | 17-3 | 17-8 | 18-1 | 18-6 | 18-10 | 19-3 | 19-7 | 19-11 |
| 625.00 | 17-10 | 18-4 | 18-9 | 19-2 | 19-7 | 20-0 | 20-5 | 20-10 | 21-3 | 21-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS



TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 0.33 | 1500 | 0.33 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.14 | 1705 | 0.14 | 1705 |
| 30 | 0 | 0 | 0 | 0.197 | 0.18 | 1335 | 0.18 | 1345 |
| 40 | 0 | 0 | 0 | 0.197 | 0.2 | 1208 | 0.2 | 1225 |
| 50 | 0 | 0 | 0 | 0.197 | 0.23 | 1082 | 0.22 | 1104 |
| 60 | 0 | 0 | 0 | 0.197 | 0.26 | 957 | 0.25 | 984 |
| 70 | 0 | 0 | 0 | 0.197 | 0.29 | 836 | 0.28 | 866 |
| 80 | 0 | 0 | 0 | 0.197 | 0.34 | 719 | 0.33 | 751 |
| 90 | 0 | 0 | 0 | 0.197 | 0.4 | 608 | 0.38 | 641 |
| 100 | 0 | 0 | 0 | 0.197 | 0.48 | 509 | 0.46 | 539 |
| 110 | 0 | 0 | 0 | 0.197 | 0.58 | 424 | 0.55 | 450 |
| 120 | 0 | 0 | 0 | 0.197 | 0.69 | 356 | 0.64 | 384 |
| 130 | 0 | 0 | 0 | 0.197 | 0.8 | 307 | 0.74 | 335 |
| 167 | 0 | 0 | 0 | 0.197 | 1.18 | 209 | 1.11 | 223 |
| 212 | 0 | 0 | 0 | 0.197 | 1.57 | 157 | 1.51 | 164 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 1.33 | 1500 | 1.33 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.62 | 1599 | 0.62 | 1599 |
| 30 | 0 | 0 | 0 | 0.197 | 0.79 | 1243 | 0.78 | 1257 |
| 40 | 0 | 0 | 0 | 0.197 | 0.87 | 1127 | 0.86 | 1146 |
| 50 | 0 | 0 | 0 | 0.197 | 0.97 | 1016 | 0.95 | 1038 |
| 60 | 0 | 0 | 0 | 0.197 | 1.08 | 910 | 1.05 | 935 |
| 70 | 0 | 0 | 0 | 0.197 | 1.21 | 813 | 1.18 | 838 |
| 80 | 0 | 0 | 0 | 0.197 | 1.36 | 724 | 1.32 | 748 |
| 90 | 0 | 0 | 0 | 0.197 | 1.53 | 646 | 1.47 | 668 |
| 100 | 0 | 0 | 0 | 0.197 | 1.7 | 579 | 1.65 | 598 |
| 110 | 0 | 0 | 0 | 0.197 | 1.89 | 522 | 1.83 | 538 |
| 120 | 0 | 0 | 0 | 0.197 | 2.08 | 474 | 2.02 | 487 |
| 130 | 0 | 0 | 0 | 0.197 | 2.27 | 435 | 2.19 | 450 |
| 167 | 0 | 0 | 0 | 0.197 | 2.88 | 343 | 2.78 | 355 |
| 212 | 0 | 0 | 0 | 0.197 | 3.53 | 279 | 3.44 | 287 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 3 | 1500 | 3 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.54 | 1437 | 1.54 | 1439 |
| 30 | 0 | 0 | 0 | 0.197 | 1.98 | 1120 | 1.95 | 1137 |
| 40 | 0 | 0 | 0 | 0.197 | 2.16 | 1026 | 2.12 | 1045 |
| 50 | 0 | 0 | 0 | 0.197 | 2.36 | 940 | 2.31 | 960 |
| 60 | 0 | 0 | 0 | 0.197 | 2.57 | 861 | 2.52 | 881 |
| 70 | 0 | 0 | 0 | 0.197 | 2.8 | 791 | 2.74 | 810 |
| 80 | 0 | 0 | 0 | 0.197 | 3.04 | 729 | 2.97 | 746 |
| 90 | 0 | 0 | 0 | 0.197 | 3.29 | 675 | 3.22 | 689 |
| 100 | 0 | 0 | 0 | 0.197 | 3.54 | 627 | 3.46 | 640 |
| 110 | 0 | 0 | 0 | 0.197 | 3.78 | 586 | 3.72 | 597 |
| 120 | 0 | 0 | 0 | 0.197 | 4.03 | 550 | 3.97 | 559 |
| 130 | 0 | 0 | 0 | 0.197 | 4.28 | 519 | 4.21 | 527 |
| 167 | 0 | 0 | 0 | 0.197 | 5.08 | 437 | 4.97 | 446 |
| 212 | 0 | 0 | 0 | 0.197 | 5.94 | 374 | 5.83 | 381 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 5.33 | 1500 | 5.33 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 3.15 | 1251 | 3.13 | 1261 |
| 30 | 0 | 0 | 0 | 0.197 | 3.91 | 1007 | 3.85 | 1024 |
| 40 | 0 | 0 | 0 | 0.197 | 4.19 | 940 | 4.12 | 956 |
| 50 | 0 | 0 | 0 | 0.197 | 4.49 | 879 | 4.41 | 894 |
| 60 | 0 | 0 | 0 | 0.197 | 4.78 | 824 | 4.7 | 839 |
| 70 | 0 | 0 | 0 | 0.197 | 5.08 | 776 | 5 | 789 |
| 80 | 0 | 0 | 0 | 0.197 | 5.38 | 732 | 5.3 | 744 |
| 90 | 0 | 0 | 0 | 0.197 | 5.69 | 694 | 5.6 | 704 |
| 100 | 0 | 0 | 0 | 0.197 | 5.98 | 659 | 5.9 | 668 |
| 110 | 0 | 0 | 0 | 0.197 | 6.28 | 628 | 6.2 | 636 |
| 120 | 0 | 0 | 0 | 0.197 | 6.57 | 600 | 6.5 | 607 |
| 130 | 0 | 0 | 0 | 0.197 | 6.85 | 576 | 6.79 | 581 |
| 167 | 0 | 0 | 0 | 0.197 | 7.82 | 505 | 7.7 | 512 |
| 212 | 0 | 0 | 0 | 0.197 | 8.84 | 447 | 8.72 | 453 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 8.33 | 1500 | 8.33 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 5.63 | 1094 | 5.56 | 1107 |
| 30 | 0 | 0 | 0 | 0.197 | 6.66 | 926 | 6.56 | 939 |
| 40 | 0 | 0 | 0 | 0.197 | 7.01 | 879 | 6.91 | 892 |
| 50 | 0 | 0 | 0 | 0.197 | 7.36 | 838 | 7.26 | 849 |
| 60 | 0 | 0 | 0 | 0.197 | 7.7 | 800 | 7.6 | 810 |
| 70 | 0 | 0 | 0 | 0.197 | 8.05 | 765 | 7.95 | 775 |
| 80 | 0 | 0 | 0 | 0.197 | 8.39 | 734 | 8.3 | 743 |
| 90 | 0 | 0 | 0 | 0.197 | 8.73 | 706 | 8.64 | 714 |
| 100 | 0 | 0 | 0 | 0.197 | 9.06 | 680 | 8.97 | 687 |
| 110 | 0 | 0 | 0 | 0.197 | 9.39 | 656 | 9.31 | 662 |
| 120 | 0 | 0 | 0 | 0.197 | 9.71 | 635 | 9.64 | 640 |
| 130 | 0 | 0 | 0 | 0.197 | 10.03 | 615 | 9.96 | 619 |
| 167 | 0 | 0 | 0 | 0.197 | 11.12 | 555 | 11 | 561 |
| 212 | 0 | 0 | 0 | 0.197 | 12.28 | 503 | 12.16 | 508 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 |
| 150.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-3 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-10 | 2-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 |
| 200.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 |
| 250.00 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-5 |
| 200.00 | 0-9 | 0-10 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-2 | 2-5 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 200.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 |
| 250.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 275.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 |
| 300.00 | 1-10 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 |
| 325.00 | 2-1 | 2-3 | 2-6 | 2-9 | 2-11 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 |
| 350.00 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 |
| 375.00 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-8 | 5-0 | 5-5 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 225.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 |
| 250.00 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 |
| 275.00 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 |
| 300.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 |
| 325.00 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-5 |
| 350.00 | 2-6 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 |
| 375.00 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-5 | 4-9 | 5-2 | 5-6 | 5-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 225.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |
| 250.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 |
| 275.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 |
| 300.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 325.00 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 |
| 350.00 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 |
| 375.00 | 3-2 | 3-5 | 3-7 | 3-10 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 |
| 400.00 | 3-7 | 3-10 | 4-1 | 4-5 | 4-8 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 |
| 425.00 | 4-1 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 |
| 450.00 | 4-7 | 4-10 | 5-3 | 5-7 | 5-11 | 6-4 | 6-8 | 7-1 | 7-6 | 7-10 |
| 475.00 | 5-1 | 5-5 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 |
| 500.00 | 5-7 | 6-0 | 6-5 | 6-11 | 7-4 | 7-10 | 8-3 | 8-9 | 9-3 | 9-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 225.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 250.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 275.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 |
| 300.00 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 325.00 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 |
| 350.00 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 | 4-10 |
| 375.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 |
| 400.00 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-5 | 5-8 | 6-0 | 6-3 |
| 425.00 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 |
| 450.00 | 4-7 | 4-11 | 5-4 | 5-8 | 6-1 | 6-5 | 6-10 | 7-2 | 7-7 | 7-11 |
| 475.00 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 |
| 500.00 | 5-8 | 6-1 | 6-7 | 7-0 | 7-6 | 7-11 | 8-5 | 8-11 | 9-4 | 9-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 275.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 |
| 300.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 |
| 325.00 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 |
| 350.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 |
| 375.00 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 |
| 400.00 | 4-0 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 |
| 425.00 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 |
| 450.00 | 5-0 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 | 7-6 |
| 475.00 | 5-7 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 | 7-6 | 7-10 | 8-1 | 8-5 |
| 500.00 | 6-3 | 6-7 | 6-11 | 7-3 | 7-7 | 7-11 | 8-4 | 8-8 | 9-0 | 9-4 |
| 525.00 | 6-10 | 7-3 | 7-7 | 8-0 | 8-5 | 8-9 | 9-2 | 9-6 | 9-11 | 10-3 |
| 550.00 | 7-6 | 7-11 | 8-4 | 8-9 | 9-2 | 9-7 | 10-0 | 10-5 | 10-10 | 11-3 |
| 575.00 | 8-3 | 8-8 | 9-2 | 9-7 | 10-1 | 10-6 | 11-0 | 11-5 | 11-10 | 12-4 |
| 600.00 | 9-0 | 9-5 | 9-11 | 10-5 | 10-11 | 11-5 | 11-11 | 12-5 | 12-11 | 13-5 |
| 625.00 | 9-9 | 10-3 | 10-10 | 11-4 | 11-11 | 12-5 | 13-0 | 13-6 | 14-0 | 14-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 275.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 |
| 300.00 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 |
| 325.00 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 |
| 350.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 |
| 375.00 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-3 |
| 400.00 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-0 |
| 425.00 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-9 |
| 450.00 | 5-1 | 5-5 | 5-8 | 5-11 | 6-3 | 6-6 | 6-10 | 7-1 | 7-4 | 7-7 |
| 475.00 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 | 7-3 | 7-7 | 7-11 | 8-2 | 8-6 |
| 500.00 | 6-4 | 6-8 | 7-0 | 7-4 | 7-8 | 8-1 | 8-5 | 8-9 | 9-1 | 9-5 |
| 525.00 | 6-11 | 7-4 | 7-9 | 8-1 | 8-6 | 8-11 | 9-3 | 9-8 | 10-0 | 10-4 |
| 550.00 | 7-8 | 8-1 | 8-6 | 8-11 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 | 11-4 |
| 575.00 | 8-4 | 8-10 | 9-3 | 9-9 | 10-2 | 10-8 | 11-1 | 11-7 | 12-0 | 12-5 |
| 600.00 | 9-1 | 9-7 | 10-1 | 10-7 | 11-1 | 11-7 | 12-1 | 12-7 | 13-1 | 13-6 |
| 625.00 | 9-10 | 10-5 | 10-11 | 11-6 | 12-0 | 12-7 | 13-1 | 13-8 | 14-2 | 14-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 0.25 | 1999 | 0.25 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.11 | 2217 | 0.11 | 2217 |
| 30 | 0 | 0 | 0 | 0.197 | 0.13 | 1848 | 0.13 | 1861 |
| 40 | 0 | 0 | 0 | 0.197 | 0.14 | 1719 | 0.14 | 1741 |
| 50 | 0 | 0 | 0 | 0.197 | 0.15 | 1589 | 0.15 | 1620 |
| 60 | 0 | 0 | 0 | 0.197 | 0.17 | 1461 | 0.16 | 1498 |
| 70 | 0 | 0 | 0 | 0.197 | 0.18 | 1332 | 0.18 | 1376 |
| 80 | 0 | 0 | 0 | 0.197 | 0.2 | 1205 | 0.2 | 1253 |
| 90 | 0 | 0 | 0 | 0.197 | 0.23 | 1079 | 0.22 | 1131 |
| 100 | 0 | 0 | 0 | 0.197 | 0.26 | 955 | 0.24 | 1009 |
| 110 | 0 | 0 | 0 | 0.197 | 0.3 | 833 | 0.28 | 889 |
| 120 | 0 | 0 | 0 | 0.197 | 0.34 | 716 | 0.32 | 771 |
| 130 | 0 | 0 | 0 | 0.197 | 0.41 | 606 | 0.37 | 659 |
| 167 | 0 | 0 | 0 | 0.197 | 0.73 | 336 | 0.65 | 382 |
| 212 | 0 | 0 | 0 | 0.197 | 1.19 | 207 | 1.09 | 226 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 1 | 2000 | 1 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.46 | 2157 | 0.46 | 2157 |
| 30 | 0 | 0 | 0 | 0.197 | 0.55 | 1792 | 0.54 | 1807 |
| 40 | 0 | 0 | 0 | 0.197 | 0.59 | 1667 | 0.58 | 1690 |
| 50 | 0 | 0 | 0 | 0.197 | 0.64 | 1543 | 0.63 | 1573 |
| 60 | 0 | 0 | 0 | 0.197 | 0.69 | 1420 | 0.68 | 1456 |
| 70 | 0 | 0 | 0 | 0.197 | 0.76 | 1300 | 0.73 | 1340 |
| 80 | 0 | 0 | 0 | 0.197 | 0.83 | 1182 | 0.8 | 1226 |
| 90 | 0 | 0 | 0 | 0.197 | 0.92 | 1069 | 0.88 | 1114 |
| 100 | 0 | 0 | 0 | 0.197 | 1.03 | 960 | 0.98 | 1006 |
| 110 | 0 | 0 | 0 | 0.197 | 1.15 | 859 | 1.09 | 903 |
| 120 | 0 | 0 | 0 | 0.197 | 1.29 | 766 | 1.22 | 807 |
| 130 | 0 | 0 | 0 | 0.197 | 1.44 | 682 | 1.37 | 719 |
| 167 | 0 | 0 | 0 | 0.197 | 2.07 | 476 | 1.95 | 505 |
| 212 | 0 | 0 | 0 | 0.197 | 2.8 | 352 | 2.67 | 369 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 2.25 | 2000 | 2.25 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 1.08 | 2061 | 1.08 | 2061 |
| 30 | 0 | 0 | 0 | 0.197 | 1.3 | 1704 | 1.29 | 1723 |
| 40 | 0 | 0 | 0 | 0.197 | 1.4 | 1586 | 1.37 | 1612 |
| 50 | 0 | 0 | 0 | 0.197 | 1.51 | 1471 | 1.48 | 1503 |
| 60 | 0 | 0 | 0 | 0.197 | 1.63 | 1359 | 1.59 | 1395 |
| 70 | 0 | 0 | 0 | 0.197 | 1.77 | 1252 | 1.72 | 1290 |
| 80 | 0 | 0 | 0 | 0.197 | 1.93 | 1150 | 1.86 | 1189 |
| 90 | 0 | 0 | 0 | 0.197 | 2.1 | 1054 | 2.03 | 1093 |
| 100 | 0 | 0 | 0 | 0.197 | 2.3 | 965 | 2.21 | 1003 |
| 110 | 0 | 0 | 0 | 0.197 | 2.51 | 884 | 2.41 | 919 |
| 120 | 0 | 0 | 0 | 0.197 | 2.73 | 811 | 2.63 | 843 |
| 130 | 0 | 0 | 0 | 0.197 | 2.97 | 747 | 2.86 | 775 |
| 167 | 0 | 0 | 0 | 0.197 | 3.84 | 577 | 3.7 | 599 |
| 212 | 0 | 0 | 0 | 0.197 | 4.8 | 462 | 4.65 | 477 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 4 | 2000 | 4 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 2.04 | 1935 | 2.04 | 1935 |
| 30 | 0 | 0 | 0 | 0.197 | 2.47 | 1596 | 2.43 | 1619 |
| 40 | 0 | 0 | 0 | 0.197 | 2.64 | 1490 | 2.6 | 1518 |
| 50 | 0 | 0 | 0 | 0.197 | 2.84 | 1389 | 2.78 | 1420 |
| 60 | 0 | 0 | 0 | 0.197 | 3.05 | 1293 | 2.97 | 1326 |
| 70 | 0 | 0 | 0 | 0.197 | 3.28 | 1202 | 3.19 | 1236 |
| 80 | 0 | 0 | 0 | 0.197 | 3.53 | 1118 | 3.42 | 1151 |
| 90 | 0 | 0 | 0 | 0.197 | 3.79 | 1040 | 3.68 | 1072 |
| 100 | 0 | 0 | 0 | 0.197 | 4.07 | 970 | 3.94 | 999 |
| 110 | 0 | 0 | 0 | 0.197 | 4.35 | 906 | 4.23 | 933 |
| 120 | 0 | 0 | 0 | 0.197 | 4.65 | 848 | 4.52 | 873 |
| 130 | 0 | 0 | 0 | 0.197 | 4.95 | 797 | 4.82 | 819 |
| 167 | 0 | 0 | 0 | 0.197 | 6.03 | 654 | 5.88 | 671 |
| 212 | 0 | 0 | 0 | 0.197 | 7.18 | 549 | 7.01 | 562 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 6.24 | 2000 | 6.24 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 3.45 | 1783 | 3.44 | 1792 |
| 30 | 0 | 0 | 0 | 0.197 | 4.15 | 1484 | 4.08 | 1509 |
| 40 | 0 | 0 | 0 | 0.197 | 4.42 | 1394 | 4.33 | 1421 |
| 50 | 0 | 0 | 0 | 0.197 | 4.7 | 1309 | 4.6 | 1338 |
| 60 | 0 | 0 | 0 | 0.197 | 5.01 | 1230 | 4.89 | 1259 |
| 70 | 0 | 0 | 0 | 0.197 | 5.32 | 1157 | 5.19 | 1186 |
| 80 | 0 | 0 | 0 | 0.197 | 5.65 | 1090 | 5.51 | 1118 |
| 90 | 0 | 0 | 0 | 0.197 | 5.99 | 1029 | 5.84 | 1055 |
| 100 | 0 | 0 | 0 | 0.197 | 6.33 | 973 | 6.18 | 997 |
| 110 | 0 | 0 | 0 | 0.197 | 6.68 | 923 | 6.53 | 944 |
| 120 | 0 | 0 | 0 | 0.197 | 7.03 | 877 | 6.88 | 896 |
| 130 | 0 | 0 | 0 | 0.197 | 7.38 | 835 | 7.23 | 852 |
| 167 | 0 | 0 | 0 | 0.197 | 8.64 | 713 | 8.48 | 727 |
| 212 | 0 | 0 | 0 | 0.197 | 9.96 | 619 | 9.78 | 630 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 1-0 | 1-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-11 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.117

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 |
| 250.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-11 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 250.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.118

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 225.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 250.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 |
| 300.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 |
| 325.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 |
| 350.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 |
| 375.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 225.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 |
| 300.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 |
| 325.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 |
| 350.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-2 | 3-5 |
| 375.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-7 | 3-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 250.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 300.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 |
| 325.00 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 350.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 |
| 375.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 |
| 400.00 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 |
| 425.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 |
| 450.00 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 |
| 475.00 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 6-0 |
| 500.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-8 | 5-0 | 5-4 | 5-9 | 6-2 | 6-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 225.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 |
| 250.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 |
| 300.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 |
| 325.00 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 350.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 |
| 375.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 |
| 400.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 |
| 425.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 | 4-11 |
| 450.00 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 | 5-6 |
| 475.00 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 5-0 | 5-4 | 5-9 | 6-2 |
| 500.00 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 | 5-6 | 5-11 | 6-4 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 275.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |
| 300.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 |
| 325.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 |
| 350.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 |
| 375.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 |
| 400.00 | 2-6 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 |
| 425.00 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 |
| 450.00 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 |
| 475.00 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 |
| 500.00 | 3-10 | 4-1 | 4-4 | 4-7 | 4-11 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 |
| 525.00 | 4-3 | 4-6 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-10 | 7-2 |
| 550.00 | 4-8 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 |
| 575.00 | 5-1 | 5-5 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-9 | 8-2 | 8-8 |
| 600.00 | 5-6 | 5-11 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 | 8-5 | 8-11 | 9-5 |
| 625.00 | 6-0 | 6-5 | 6-9 | 7-2 | 7-8 | 8-1 | 8-7 | 9-2 | 9-8 | 10-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 275.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 300.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 |
| 325.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 |
| 350.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 375.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 |
| 400.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-1 | 4-3 |
| 425.00 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 |
| 450.00 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 |
| 475.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-9 | 6-0 |
| 500.00 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 |
| 525.00 | 4-4 | 4-7 | 4-10 | 5-2 | 5-6 | 5-10 | 6-3 | 6-7 | 7-0 | 7-4 |
| 550.00 | 4-9 | 5-0 | 5-4 | 5-8 | 6-1 | 6-5 | 6-10 | 7-3 | 7-8 | 8-1 |
| 575.00 | 5-2 | 5-6 | 5-10 | 6-3 | 6-7 | 7-0 | 7-6 | 7-11 | 8-4 | 8-10 |
| 600.00 | 5-7 | 6-0 | 6-4 | 6-9 | 7-2 | 7-8 | 8-2 | 8-7 | 9-1 | 9-7 |
| 625.00 | 6-1 | 6-6 | 6-11 | 7-4 | 7-10 | 8-4 | 8-10 | 9-4 | 9-11 | 10-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 0.2 | 2454 | 0.2 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.09 | 2701 | 0.09 | 2717 |
| 30 | 0 | 0 | 0 | 0.197 | 0.11 | 2310 | 0.1 | 2371 |
| 40 | 0 | 0 | 0 | 0.197 | 0.11 | 2180 | 0.11 | 2253 |
| 50 | 0 | 0 | 0 | 0.197 | 0.12 | 2050 | 0.12 | 2134 |
| 60 | 0 | 0 | 0 | 0.197 | 0.13 | 1920 | 0.12 | 2014 |
| 70 | 0 | 0 | 0 | 0.197 | 0.14 | 1790 | 0.13 | 1893 |
| 80 | 0 | 0 | 0 | 0.197 | 0.15 | 1661 | 0.14 | 1771 |
| 90 | 0 | 0 | 0 | 0.197 | 0.16 | 1532 | 0.15 | 1648 |
| 100 | 0 | 0 | 0 | 0.197 | 0.18 | 1403 | 0.16 | 1525 |
| 110 | 0 | 0 | 0 | 0.197 | 0.19 | 1275 | 0.18 | 1401 |
| 120 | 0 | 0 | 0 | 0.197 | 0.21 | 1148 | 0.19 | 1276 |
| 130 | 0 | 0 | 0 | 0.197 | 0.24 | 1023 | 0.21 | 1152 |
| 167 | 0 | 0 | 0 | 0.197 | 0.4 | 623 | 0.34 | 722 |
| 212 | 0 | 0 | 0 | 0.197 | 0.77 | 320 | 0.63 | 388 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 0.81 | 2460 | 0.8 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.37 | 2664 | 0.37 | 2680 |
| 30 | 0 | 0 | 0 | 0.197 | 0.43 | 2277 | 0.42 | 2336 |
| 40 | 0 | 0 | 0 | 0.197 | 0.46 | 2149 | 0.44 | 2219 |
| 50 | 0 | 0 | 0 | 0.197 | 0.49 | 2021 | 0.47 | 2102 |
| 60 | 0 | 0 | 0 | 0.197 | 0.52 | 1894 | 0.5 | 1984 |
| 70 | 0 | 0 | 0 | 0.197 | 0.56 | 1768 | 0.53 | 1865 |
| 80 | 0 | 0 | 0 | 0.197 | 0.6 | 1642 | 0.56 | 1746 |
| 90 | 0 | 0 | 0 | 0.197 | 0.65 | 1518 | 0.61 | 1627 |
| 100 | 0 | 0 | 0 | 0.197 | 0.71 | 1396 | 0.65 | 1508 |
| 110 | 0 | 0 | 0 | 0.197 | 0.77 | 1276 | 0.71 | 1390 |
| 120 | 0 | 0 | 0 | 0.197 | 0.85 | 1159 | 0.77 | 1273 |
| 130 | 0 | 0 | 0 | 0.197 | 0.94 | 1047 | 0.85 | 1158 |
| 167 | 0 | 0 | 0 | 0.197 | 1.39 | 707 | 1.26 | 780 |
| 212 | 0 | 0 | 0 | 0.197 | 2.09 | 471 | 1.89 | 521 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 1.82 | 2469 | 1.8 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.85 | 2603 | 0.85 | 2619 |
| 30 | 0 | 0 | 0 | 0.197 | 1 | 2224 | 0.97 | 2279 |
| 40 | 0 | 0 | 0 | 0.197 | 1.06 | 2099 | 1.02 | 2165 |
| 50 | 0 | 0 | 0 | 0.197 | 1.12 | 1976 | 1.08 | 2051 |
| 60 | 0 | 0 | 0 | 0.197 | 1.2 | 1853 | 1.14 | 1936 |
| 70 | 0 | 0 | 0 | 0.197 | 1.28 | 1733 | 1.22 | 1821 |
| 80 | 0 | 0 | 0 | 0.197 | 1.37 | 1614 | 1.3 | 1707 |
| 90 | 0 | 0 | 0 | 0.197 | 1.48 | 1498 | 1.39 | 1595 |
| 100 | 0 | 0 | 0 | 0.197 | 1.6 | 1386 | 1.49 | 1483 |
| 110 | 0 | 0 | 0 | 0.197 | 1.74 | 1277 | 1.61 | 1374 |
| 120 | 0 | 0 | 0 | 0.197 | 1.89 | 1174 | 1.75 | 1269 |
| 130 | 0 | 0 | 0 | 0.197 | 2.06 | 1076 | 1.9 | 1167 |
| 167 | 0 | 0 | 0 | 0.197 | 2.82 | 787 | 2.62 | 845 |
| 212 | 0 | 0 | 0 | 0.197 | 3.78 | 587 | 3.54 | 627 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 3.22 | 2479 | 3.2 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.56 | 2521 | 1.55 | 2535 |
| 30 | 0 | 0 | 0 | 0.197 | 1.83 | 2154 | 1.79 | 2204 |
| 40 | 0 | 0 | 0 | 0.197 | 1.94 | 2034 | 1.88 | 2094 |
| 50 | 0 | 0 | 0 | 0.197 | 2.06 | 1916 | 1.99 | 1983 |
| 60 | 0 | 0 | 0 | 0.197 | 2.19 | 1801 | 2.1 | 1874 |
| 70 | 0 | 0 | 0 | 0.197 | 2.33 | 1689 | 2.23 | 1766 |
| 80 | 0 | 0 | 0 | 0.197 | 2.49 | 1580 | 2.37 | 1660 |
| 90 | 0 | 0 | 0 | 0.197 | 2.67 | 1474 | 2.53 | 1555 |
| 100 | 0 | 0 | 0 | 0.197 | 2.87 | 1374 | 2.71 | 1454 |
| 110 | 0 | 0 | 0 | 0.197 | 3.08 | 1278 | 2.9 | 1357 |
| 120 | 0 | 0 | 0 | 0.197 | 3.32 | 1189 | 3.12 | 1264 |
| 130 | 0 | 0 | 0 | 0.197 | 3.57 | 1105 | 3.35 | 1177 |
| 167 | 0 | 0 | 0 | 0.197 | 4.6 | 856 | 4.35 | 906 |
| 212 | 0 | 0 | 0 | 0.197 | 5.79 | 681 | 5.53 | 714 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 5.02 | 2489 | 4.99 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 2.54 | 2420 | 2.53 | 2433 |
| 30 | 0 | 0 | 0 | 0.197 | 2.98 | 2070 | 2.91 | 2114 |
| 40 | 0 | 0 | 0 | 0.197 | 3.15 | 1957 | 3.06 | 2009 |
| 50 | 0 | 0 | 0 | 0.197 | 3.33 | 1848 | 3.23 | 1905 |
| 60 | 0 | 0 | 0 | 0.197 | 3.54 | 1742 | 3.41 | 1803 |
| 70 | 0 | 0 | 0 | 0.197 | 3.76 | 1640 | 3.61 | 1704 |
| 80 | 0 | 0 | 0 | 0.197 | 3.99 | 1542 | 3.83 | 1607 |
| 90 | 0 | 0 | 0 | 0.197 | 4.25 | 1448 | 4.07 | 1514 |
| 100 | 0 | 0 | 0 | 0.197 | 4.53 | 1360 | 4.32 | 1424 |
| 110 | 0 | 0 | 0 | 0.197 | 4.82 | 1278 | 4.6 | 1340 |
| 120 | 0 | 0 | 0 | 0.197 | 5.13 | 1201 | 4.89 | 1260 |
| 130 | 0 | 0 | 0 | 0.197 | 5.45 | 1131 | 5.2 | 1185 |
| 167 | 0 | 0 | 0 | 0.197 | 6.71 | 918 | 6.44 | 956 |
| 212 | 0 | 0 | 0 | 0.197 | 8.12 | 759 | 7.85 | 785 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 250.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.126

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 275.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 300.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 325.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 350.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |
| 375.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 |
| 275.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 300.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 |
| 350.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 |
| 375.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 275.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 |
| 300.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 |
| 350.00 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 |
| 375.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 |
| 400.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-9 | 2-11 |
| 425.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 |
| 450.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-8 |
| 475.00 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 |
| 500.00 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 225.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 275.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 300.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 325.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 350.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 |
| 375.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-9 |
| 400.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 |
| 425.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-6 |
| 450.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 |
| 475.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 |
| 500.00 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 |
| 275.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 300.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 |
| 350.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 |
| 375.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 |
| 400.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 |
| 425.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 |
| 450.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 |
| 475.00 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 |
| 500.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 |
| 525.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-1 |
| 550.00 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-8 | 4-11 | 5-3 | 5-7 |
| 575.00 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 |
| 600.00 | 4-0 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-6 | 5-10 | 6-3 | 6-7 |
| 625.00 | 4-4 | 4-7 | 4-9 | 5-1 | 5-4 | 5-8 | 6-0 | 6-4 | 6-9 | 7-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 |
| 275.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 350.00 | 1-5 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 |
| 375.00 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 400.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 425.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 |
| 450.00 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-11 |
| 475.00 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 |
| 500.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-10 |
| 525.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 | 5-4 |
| 550.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-7 | 4-10 | 5-2 | 5-6 | 5-10 |
| 575.00 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 6-0 | 6-4 |
| 600.00 | 4-1 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-9 | 6-1 | 6-6 | 6-11 |
| 625.00 | 4-5 | 4-8 | 4-11 | 5-2 | 5-6 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 0.17 | 2932 | 0.17 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.08 | 3183 | 0.08 | 3213 |
| 30 | 0 | 0 | 0 | 0.197 | 0.09 | 2791 | 0.09 | 2879 |
| 40 | 0 | 0 | 0 | 0.197 | 0.09 | 2661 | 0.09 | 2765 |
| 50 | 0 | 0 | 0 | 0.197 | 0.1 | 2531 | 0.09 | 2649 |
| 60 | 0 | 0 | 0 | 0.197 | 0.1 | 2400 | 0.1 | 2533 |
| 70 | 0 | 0 | 0 | 0.197 | 0.11 | 2270 | 0.1 | 2414 |
| 80 | 0 | 0 | 0 | 0.197 | 0.12 | 2140 | 0.11 | 2295 |
| 90 | 0 | 0 | 0 | 0.197 | 0.12 | 2010 | 0.11 | 2174 |
| 100 | 0 | 0 | 0 | 0.197 | 0.13 | 1880 | 0.12 | 2053 |
| 110 | 0 | 0 | 0 | 0.197 | 0.14 | 1751 | 0.13 | 1930 |
| 120 | 0 | 0 | 0 | 0.197 | 0.15 | 1621 | 0.14 | 1806 |
| 130 | 0 | 0 | 0 | 0.197 | 0.16 | 1493 | 0.15 | 1682 |
| 167 | 0 | 0 | 0 | 0.197 | 0.24 | 1035 | 0.2 | 1217 |
| 212 | 0 | 0 | 0 | 0.197 | 0.41 | 604 | 0.33 | 738 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 0.68 | 2936 | 0.67 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.31 | 3157 | 0.31 | 3188 |
| 30 | 0 | 0 | 0 | 0.197 | 0.36 | 2768 | 0.35 | 2855 |
| 40 | 0 | 0 | 0 | 0.197 | 0.37 | 2639 | 0.36 | 2741 |
| 50 | 0 | 0 | 0 | 0.197 | 0.39 | 2510 | 0.38 | 2626 |
| 60 | 0 | 0 | 0 | 0.197 | 0.41 | 2381 | 0.39 | 2510 |
| 70 | 0 | 0 | 0 | 0.197 | 0.44 | 2252 | 0.41 | 2393 |
| 80 | 0 | 0 | 0 | 0.197 | 0.46 | 2124 | 0.43 | 2275 |
| 90 | 0 | 0 | 0 | 0.197 | 0.49 | 1996 | 0.46 | 2156 |
| 100 | 0 | 0 | 0 | 0.197 | 0.53 | 1869 | 0.48 | 2036 |
| 110 | 0 | 0 | 0 | 0.197 | 0.57 | 1743 | 0.51 | 1916 |
| 120 | 0 | 0 | 0 | 0.197 | 0.61 | 1618 | 0.55 | 1795 |
| 130 | 0 | 0 | 0 | 0.197 | 0.66 | 1495 | 0.59 | 1674 |
| 167 | 0 | 0 | 0 | 0.197 | 0.92 | 1065 | 0.8 | 1232 |
| 212 | 0 | 0 | 0 | 0.197 | 1.41 | 701 | 1.23 | 804 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 1.53 | 2943 | 1.5 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.71 | 3115 | 0.7 | 3147 |
| 30 | 0 | 0 | 0 | 0.197 | 0.81 | 2730 | 0.79 | 2815 |
| 40 | 0 | 0 | 0 | 0.197 | 0.85 | 2603 | 0.82 | 2703 |
| 50 | 0 | 0 | 0 | 0.197 | 0.9 | 2476 | 0.86 | 2589 |
| 60 | 0 | 0 | 0 | 0.197 | 0.94 | 2349 | 0.9 | 2475 |
| 70 | 0 | 0 | 0 | 0.197 | 1 | 2223 | 0.94 | 2359 |
| 80 | 0 | 0 | 0 | 0.197 | 1.06 | 2099 | 0.99 | 2243 |
| 90 | 0 | 0 | 0 | 0.197 | 1.12 | 1975 | 1.04 | 2127 |
| 100 | 0 | 0 | 0 | 0.197 | 1.2 | 1853 | 1.1 | 2010 |
| 110 | 0 | 0 | 0 | 0.197 | 1.28 | 1732 | 1.17 | 1894 |
| 120 | 0 | 0 | 0 | 0.197 | 1.37 | 1614 | 1.25 | 1778 |
| 130 | 0 | 0 | 0 | 0.197 | 1.48 | 1498 | 1.33 | 1662 |
| 167 | 0 | 0 | 0 | 0.197 | 2.01 | 1105 | 1.77 | 1253 |
| 212 | 0 | 0 | 0 | 0.197 | 2.79 | 794 | 2.53 | 876 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 2.71 | 2952 | 2.66 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 1.29 | 3056 | 1.28 | 3089 |
| 30 | 0 | 0 | 0 | 0.197 | 1.47 | 2678 | 1.43 | 2761 |
| 40 | 0 | 0 | 0 | 0.197 | 1.54 | 2553 | 1.49 | 2650 |
| 50 | 0 | 0 | 0 | 0.197 | 1.62 | 2430 | 1.55 | 2539 |
| 60 | 0 | 0 | 0 | 0.197 | 1.71 | 2307 | 1.62 | 2426 |
| 70 | 0 | 0 | 0 | 0.197 | 1.8 | 2185 | 1.7 | 2314 |
| 80 | 0 | 0 | 0 | 0.197 | 1.91 | 2065 | 1.79 | 2201 |
| 90 | 0 | 0 | 0 | 0.197 | 2.02 | 1947 | 1.89 | 2089 |
| 100 | 0 | 0 | 0 | 0.197 | 2.15 | 1831 | 1.99 | 1977 |
| 110 | 0 | 0 | 0 | 0.197 | 2.29 | 1718 | 2.11 | 1866 |
| 120 | 0 | 0 | 0 | 0.197 | 2.45 | 1608 | 2.24 | 1756 |
| 130 | 0 | 0 | 0 | 0.197 | 2.62 | 1501 | 2.39 | 1648 |
| 167 | 0 | 0 | 0 | 0.197 | 3.42 | 1151 | 3.09 | 1277 |
| 212 | 0 | 0 | 0 | 0.197 | 4.49 | 877 | 4.18 | 943 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 4.22 | 2961 | 4.16 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 2.06 | 2983 | 2.04 | 3017 |
| 30 | 0 | 0 | 0 | 0.197 | 2.36 | 2614 | 2.29 | 2694 |
| 40 | 0 | 0 | 0 | 0.197 | 2.47 | 2493 | 2.38 | 2585 |
| 50 | 0 | 0 | 0 | 0.197 | 2.59 | 2373 | 2.49 | 2476 |
| 60 | 0 | 0 | 0 | 0.197 | 2.73 | 2255 | 2.6 | 2367 |
| 70 | 0 | 0 | 0 | 0.197 | 2.88 | 2139 | 2.73 | 2259 |
| 80 | 0 | 0 | 0 | 0.197 | 3.04 | 2026 | 2.86 | 2151 |
| 90 | 0 | 0 | 0 | 0.197 | 3.22 | 1914 | 3.01 | 2043 |
| 100 | 0 | 0 | 0 | 0.197 | 3.41 | 1806 | 3.18 | 1937 |
| 110 | 0 | 0 | 0 | 0.197 | 3.62 | 1702 | 3.36 | 1833 |
| 120 | 0 | 0 | 0 | 0.197 | 3.85 | 1601 | 3.56 | 1731 |
| 130 | 0 | 0 | 0 | 0.197 | 4.09 | 1505 | 3.77 | 1632 |
| 167 | 0 | 0 | 0 | 0.197 | 5.15 | 1195 | 4.74 | 1299 |
| 212 | 0 | 0 | 0 | 0.197 | 6.49 | 949 | 6.14 | 1004 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 |
| 250.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 300.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 325.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 |
| 350.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 375.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 300.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 325.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 350.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 375.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 300.00 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 325.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 350.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 |
| 375.00 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 400.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 |
| 425.00 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 |
| 450.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 475.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 |
| 500.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 300.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 |
| 325.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 350.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 375.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 |
| 400.00 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-4 |
| 425.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 |
| 450.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 475.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-3 |
| 500.00 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 300.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 325.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 |
| 350.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 375.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 |
| 400.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 |
| 425.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 |
| 450.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 475.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 |
| 500.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 |
| 525.00 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 550.00 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-1 |
| 575.00 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 |
| 600.00 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-4 | 4-7 | 4-10 |
| 625.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 300.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 325.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 350.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 375.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 400.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 425.00 | 1-8 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 |
| 450.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 |
| 475.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 500.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-3 | 3-5 | 3-7 |
| 525.00 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 |
| 550.00 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-5 |
| 575.00 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 |
| 600.00 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-3 |
| 625.00 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 5-0 | 5-4 | 5-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 0.15 | 3429 | 0.14 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.07 | 3683 | 0.07 | 3706 |
| 30 | 0 | 0 | 0 | 0.197 | 0.07 | 3291 | 0.07 | 3386 |
| 40 | 0 | 0 | 0 | 0.197 | 0.08 | 3161 | 0.08 | 3276 |
| 50 | 0 | 0 | 0 | 0.197 | 0.08 | 3030 | 0.08 | 3165 |
| 60 | 0 | 0 | 0 | 0.197 | 0.08 | 2900 | 0.08 | 3053 |
| 70 | 0 | 0 | 0 | 0.197 | 0.09 | 2769 | 0.08 | 2938 |
| 80 | 0 | 0 | 0 | 0.197 | 0.09 | 2639 | 0.09 | 2823 |
| 90 | 0 | 0 | 0 | 0.197 | 0.1 | 2509 | 0.09 | 2706 |
| 100 | 0 | 0 | 0 | 0.197 | 0.1 | 2378 | 0.1 | 2588 |
| 110 | 0 | 0 | 0 | 0.197 | 0.11 | 2248 | 0.1 | 2469 |
| 120 | 0 | 0 | 0 | 0.197 | 0.12 | 2118 | 0.1 | 2348 |
| 130 | 0 | 0 | 0 | 0.197 | 0.12 | 1988 | 0.11 | 2226 |
| 167 | 0 | 0 | 0 | 0.197 | 0.16 | 1509 | 0.14 | 1765 |
| 212 | 0 | 0 | 0 | 0.197 | 0.24 | 1027 | 0.21 | 1192 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 0.58 | 3432 | 0.57 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.27 | 3664 | 0.27 | 3689 |
| 30 | 0 | 0 | 0 | 0.197 | 0.3 | 3274 | 0.29 | 3369 |
| 40 | 0 | 0 | 0 | 0.197 | 0.31 | 3144 | 0.3 | 3259 |
| 50 | 0 | 0 | 0 | 0.197 | 0.33 | 3014 | 0.31 | 3148 |
| 60 | 0 | 0 | 0 | 0.197 | 0.34 | 2885 | 0.32 | 3036 |
| 70 | 0 | 0 | 0 | 0.197 | 0.36 | 2755 | 0.34 | 2923 |
| 80 | 0 | 0 | 0 | 0.197 | 0.38 | 2626 | 0.35 | 2808 |
| 90 | 0 | 0 | 0 | 0.197 | 0.39 | 2497 | 0.37 | 2692 |
| 100 | 0 | 0 | 0 | 0.197 | 0.42 | 2368 | 0.38 | 2574 |
| 110 | 0 | 0 | 0 | 0.197 | 0.44 | 2239 | 0.4 | 2456 |
| 120 | 0 | 0 | 0 | 0.197 | 0.47 | 2111 | 0.42 | 2336 |
| 130 | 0 | 0 | 0 | 0.197 | 0.5 | 1984 | 0.44 | 2216 |
| 167 | 0 | 0 | 0 | 0.197 | 0.65 | 1519 | 0.56 | 1764 |
| 212 | 0 | 0 | 0 | 0.197 | 0.92 | 1065 | 0.81 | 1218 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 1.31 | 3437 | 1.28 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.61 | 3633 | 0.61 | 3659 |
| 30 | 0 | 0 | 0 | 0.197 | 0.68 | 3246 | 0.66 | 3340 |
| 40 | 0 | 0 | 0 | 0.197 | 0.71 | 3117 | 0.69 | 3231 |
| 50 | 0 | 0 | 0 | 0.197 | 0.74 | 2988 | 0.71 | 3121 |
| 60 | 0 | 0 | 0 | 0.197 | 0.77 | 2860 | 0.74 | 3009 |
| 70 | 0 | 0 | 0 | 0.197 | 0.81 | 2732 | 0.77 | 2897 |
| 80 | 0 | 0 | 0 | 0.197 | 0.85 | 2605 | 0.8 | 2783 |
| 90 | 0 | 0 | 0 | 0.197 | 0.89 | 2478 | 0.83 | 2668 |
| 100 | 0 | 0 | 0 | 0.197 | 0.94 | 2351 | 0.87 | 2552 |
| 110 | 0 | 0 | 0 | 0.197 | 1 | 2225 | 0.91 | 2435 |
| 120 | 0 | 0 | 0 | 0.197 | 1.06 | 2101 | 0.96 | 2318 |
| 130 | 0 | 0 | 0 | 0.197 | 1.12 | 1977 | 1.01 | 2200 |
| 167 | 0 | 0 | 0 | 0.197 | 1.44 | 1534 | 1.26 | 1762 |
| 212 | 0 | 0 | 0 | 0.197 | 1.99 | 1115 | 1.77 | 1254 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 2.32 | 3444 | 2.28 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.1 | 3590 | 1.09 | 3618 |
| 30 | 0 | 0 | 0 | 0.197 | 1.23 | 3206 | 1.19 | 3301 |
| 40 | 0 | 0 | 0 | 0.197 | 1.28 | 3079 | 1.23 | 3192 |
| 50 | 0 | 0 | 0 | 0.197 | 1.33 | 2952 | 1.28 | 3083 |
| 60 | 0 | 0 | 0 | 0.197 | 1.39 | 2826 | 1.33 | 2972 |
| 70 | 0 | 0 | 0 | 0.197 | 1.46 | 2700 | 1.38 | 2861 |
| 80 | 0 | 0 | 0 | 0.197 | 1.53 | 2576 | 1.43 | 2749 |
| 90 | 0 | 0 | 0 | 0.197 | 1.61 | 2451 | 1.5 | 2636 |
| 100 | 0 | 0 | 0 | 0.197 | 1.69 | 2328 | 1.56 | 2522 |
| 110 | 0 | 0 | 0 | 0.197 | 1.79 | 2207 | 1.64 | 2408 |
| 120 | 0 | 0 | 0 | 0.197 | 1.89 | 2086 | 1.72 | 2293 |
| 130 | 0 | 0 | 0 | 0.197 | 2 | 1968 | 1.81 | 2178 |
| 167 | 0 | 0 | 0 | 0.197 | 2.54 | 1552 | 2.24 | 1760 |
| 212 | 0 | 0 | 0 | 0.197 | 3.37 | 1168 | 3.05 | 1293 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 0.399 | 3.62 | 3452 | 3.57 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.74 | 3536 | 1.73 | 3566 |
| 30 | 0 | 0 | 0 | 0.197 | 1.95 | 3157 | 1.89 | 3251 |
| 40 | 0 | 0 | 0 | 0.197 | 2.03 | 3032 | 1.96 | 3143 |
| 50 | 0 | 0 | 0 | 0.197 | 2.12 | 2908 | 2.03 | 3035 |
| 60 | 0 | 0 | 0 | 0.197 | 2.21 | 2784 | 2.1 | 2926 |
| 70 | 0 | 0 | 0 | 0.197 | 2.31 | 2661 | 2.19 | 2817 |
| 80 | 0 | 0 | 0 | 0.197 | 2.42 | 2540 | 2.27 | 2706 |
| 90 | 0 | 0 | 0 | 0.197 | 2.54 | 2420 | 2.37 | 2596 |
| 100 | 0 | 0 | 0 | 0.197 | 2.68 | 2301 | 2.48 | 2485 |
| 110 | 0 | 0 | 0 | 0.197 | 2.82 | 2184 | 2.59 | 2374 |
| 120 | 0 | 0 | 0 | 0.197 | 2.98 | 2070 | 2.72 | 2263 |
| 130 | 0 | 0 | 0 | 0.197 | 3.15 | 1957 | 2.86 | 2153 |
| 167 | 0 | 0 | 0 | 0.197 | 3.92 | 1571 | 3.5 | 1758 |
| 212 | 0 | 0 | 0 | 0.197 | 5.05 | 1220 | 4.62 | 1333 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 0 | 0- 0 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 |
| 100.00 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 |
| 125.00 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 |
| 150.00 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 3 | 0- 3 |
| 175.00 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 4 |
| 200.00 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 0 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 |
| 100.00 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 |
| 125.00 | 0- 1 | 0- 1 | 0- 1 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 |
| 150.00 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 3 | 0- 3 | 0- 3 | 0- 3 |
| 175.00 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 4 |
| 200.00 | 0- 3 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 |
| 125.00 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 |
| 150.00 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 3 | 0- 3 |
| 175.00 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 |
| 200.00 | 0- 3 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 |
| 225.00 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 5 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 6 |
| 250.00 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 7 | 0- 8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 | 0- 1 |
| 125.00 | 0- 1 | 0- 1 | 0- 1 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 |
| 150.00 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 3 | 0- 3 | 0- 3 | 0- 3 |
| 175.00 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 4 |
| 200.00 | 0- 3 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 5 | 0- 5 |
| 225.00 | 0- 4 | 0- 5 | 0- 5 | 0- 5 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 6 | 0- 7 |
| 250.00 | 0- 5 | 0- 6 | 0- 6 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 7 | 0- 8 | 0- 8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 200.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 225.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |
| 250.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 |
| 275.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 |
| 300.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 |
| 325.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 350.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 375.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 |
| 225.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 250.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 |
| 275.00 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 300.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 325.00 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 |
| 350.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 |
| 375.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.143

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 225.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |
| 250.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 |
| 275.00 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 |
| 300.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 325.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 350.00 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 375.00 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 |
| 400.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 |
| 425.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 |
| 450.00 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 475.00 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 |
| 500.00 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 |
| 225.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 |
| 275.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 300.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 325.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 350.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 |
| 375.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 400.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 |
| 425.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 450.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 |
| 475.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 |
| 500.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 |
| 275.00 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 |
| 300.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 325.00 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 350.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 |
| 375.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 400.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 |
| 425.00 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 |
| 450.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 475.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 500.00 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 |
| 525.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 |
| 550.00 | 2-3 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 | 3-2 |
| 575.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 |
| 600.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-9 |
| 625.00 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 4-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 |
| 275.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 300.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 325.00 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 |
| 350.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 375.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 |
| 400.00 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 425.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 450.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 |
| 475.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 500.00 | 1-11 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 |
| 525.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 |
| 550.00 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 |
| 575.00 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-9 |
| 600.00 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-1 |
| 625.00 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 0.78 | 1000 | 0.78 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.24 | 1015 | 0.24 | 1015 |
| 30 | 0 | 0 | 0 | 0.197 | 0.37 | 659 | 0.36 | 676 |
| 40 | 0 | 0 | 0 | 0.197 | 0.44 | 554 | 0.43 | 573 |
| 50 | 0 | 0 | 0 | 0.197 | 0.53 | 462 | 0.51 | 480 |
| 60 | 0 | 0 | 0 | 0.197 | 0.64 | 386 | 0.61 | 402 |
| 70 | 0 | 0 | 0 | 0.197 | 0.75 | 326 | 0.73 | 339 |
| 80 | 0 | 0 | 0 | 0.197 | 0.87 | 282 | 0.85 | 291 |
| 90 | 0 | 0 | 0 | 0.197 | 0.99 | 248 | 0.97 | 255 |
| 100 | 0 | 0 | 0 | 0.197 | 1.11 | 223 | 1.07 | 231 |
| 110 | 0 | 0 | 0 | 0.197 | 1.21 | 203 | 1.16 | 212 |
| 120 | 0 | 0 | 0 | 0.197 | 1.31 | 189 | 1.26 | 196 |
| 130 | 0 | 0 | 0 | 0.197 | 1.39 | 177 | 1.35 | 183 |
| 167 | 0 | 0 | 0 | 0.197 | 1.69 | 146 | 1.65 | 149 |
| 212 | 0 | 0 | 0 | 0.197 | 2.01 | 123 | 1.97 | 125 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 3.14 | 1000 | 3.14 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 1.82 | 541 | 1.78 | 555 |
| 30 | 0 | 0 | 0 | 0.197 | 2.39 | 412 | 2.34 | 422 |
| 40 | 0 | 0 | 0 | 0.197 | 2.57 | 383 | 2.52 | 391 |
| 50 | 0 | 0 | 0 | 0.197 | 2.75 | 358 | 2.71 | 364 |
| 60 | 0 | 0 | 0 | 0.197 | 2.93 | 337 | 2.88 | 342 |
| 70 | 0 | 0 | 0 | 0.197 | 3.1 | 318 | 3.06 | 323 |
| 80 | 0 | 0 | 0 | 0.197 | 3.26 | 302 | 3.22 | 306 |
| 90 | 0 | 0 | 0 | 0.197 | 3.42 | 288 | 3.39 | 291 |
| 100 | 0 | 0 | 0 | 0.197 | 3.57 | 276 | 3.54 | 279 |
| 110 | 0 | 0 | 0 | 0.197 | 3.72 | 265 | 3.67 | 269 |
| 120 | 0 | 0 | 0 | 0.197 | 3.86 | 256 | 3.8 | 260 |
| 130 | 0 | 0 | 0 | 0.197 | 3.99 | 247 | 3.93 | 251 |
| 167 | 0 | 0 | 0 | 0.197 | 4.43 | 223 | 4.37 | 226 |
| 212 | 0 | 0 | 0 | 0.197 | 4.93 | 200 | 4.87 | 203 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 7.07 | 1000 | 7.07 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 5.68 | 391 | 5.6 | 396 |
| 30 | 0 | 0 | 0 | 0.197 | 6.28 | 353 | 6.22 | 357 |
| 40 | 0 | 0 | 0 | 0.197 | 6.47 | 343 | 6.42 | 346 |
| 50 | 0 | 0 | 0 | 0.197 | 6.66 | 333 | 6.61 | 336 |
| 60 | 0 | 0 | 0 | 0.197 | 6.84 | 324 | 6.8 | 327 |
| 70 | 0 | 0 | 0 | 0.197 | 7.02 | 316 | 6.98 | 318 |
| 80 | 0 | 0 | 0 | 0.197 | 7.2 | 309 | 7.16 | 310 |
| 90 | 0 | 0 | 0 | 0.197 | 7.37 | 301 | 7.34 | 303 |
| 100 | 0 | 0 | 0 | 0.197 | 7.54 | 295 | 7.51 | 296 |
| 110 | 0 | 0 | 0 | 0.197 | 7.71 | 288 | 7.66 | 290 |
| 120 | 0 | 0 | 0 | 0.197 | 7.87 | 282 | 7.81 | 285 |
| 130 | 0 | 0 | 0 | 0.197 | 8.02 | 277 | 7.95 | 279 |
| 167 | 0 | 0 | 0 | 0.197 | 8.54 | 260 | 8.48 | 262 |
| 212 | 0 | 0 | 0 | 0.197 | 9.14 | 243 | 9.08 | 245 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 12.59 | 1000 | 12.59 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 11.2 | 353 | 11.13 | 355 |
| 30 | 0 | 0 | 0 | 0.197 | 11.79 | 335 | 11.73 | 337 |
| 40 | 0 | 0 | 0 | 0.197 | 11.98 | 330 | 11.92 | 332 |
| 50 | 0 | 0 | 0 | 0.197 | 12.17 | 325 | 12.12 | 326 |
| 60 | 0 | 0 | 0 | 0.197 | 12.36 | 320 | 12.31 | 321 |
| 70 | 0 | 0 | 0 | 0.197 | 12.54 | 315 | 12.5 | 317 |
| 80 | 0 | 0 | 0 | 0.197 | 12.72 | 311 | 12.68 | 312 |
| 90 | 0 | 0 | 0 | 0.197 | 12.9 | 307 | 12.87 | 307 |
| 100 | 0 | 0 | 0 | 0.197 | 13.08 | 303 | 13.05 | 303 |
| 110 | 0 | 0 | 0 | 0.197 | 13.25 | 299 | 13.2 | 300 |
| 120 | 0 | 0 | 0 | 0.197 | 13.43 | 295 | 13.36 | 296 |
| 130 | 0 | 0 | 0 | 0.197 | 13.58 | 291 | 13.52 | 293 |
| 167 | 0 | 0 | 0 | 0.197 | 14.15 | 280 | 14.08 | 281 |
| 212 | 0 | 0 | 0 | 0.197 | 14.8 | 268 | 14.74 | 269 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 19.71 | 1000 | 19.71 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 18.33 | 338 | 18.26 | 339 |
| 30 | 0 | 0 | 0 | 0.197 | 18.91 | 327 | 18.85 | 328 |
| 40 | 0 | 0 | 0 | 0.197 | 19.1 | 324 | 19.05 | 325 |
| 50 | 0 | 0 | 0 | 0.197 | 19.29 | 321 | 19.24 | 322 |
| 60 | 0 | 0 | 0 | 0.197 | 19.48 | 318 | 19.43 | 319 |
| 70 | 0 | 0 | 0 | 0.197 | 19.67 | 315 | 19.62 | 316 |
| 80 | 0 | 0 | 0 | 0.197 | 19.85 | 312 | 19.81 | 313 |
| 90 | 0 | 0 | 0 | 0.197 | 20.03 | 309 | 20 | 310 |
| 100 | 0 | 0 | 0 | 0.197 | 20.21 | 307 | 20.18 | 307 |
| 110 | 0 | 0 | 0 | 0.197 | 20.39 | 304 | 20.34 | 305 |
| 120 | 0 | 0 | 0 | 0.197 | 20.57 | 301 | 20.51 | 302 |
| 130 | 0 | 0 | 0 | 0.197 | 20.73 | 299 | 20.67 | 300 |
| 167 | 0 | 0 | 0 | 0.197 | 21.32 | 291 | 21.25 | 292 |
| 212 | 0 | 0 | 0 | 0.197 | 22.01 | 282 | 21.94 | 283 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 |
| 150.00 | 0-8 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 | 2-2 | 2-5 | 2-7 |
| 175.00 | 1-0 | 1-1 | 1-4 | 1-7 | 1-11 | 2-3 | 2-7 | 3-0 | 3-3 | 3-7 |
| 200.00 | 1-3 | 1-5 | 1-9 | 2-1 | 2-5 | 2-11 | 3-5 | 3-10 | 4-3 | 4-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 | 1-11 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 2-0 | 2-3 | 2-6 | 2-9 |
| 175.00 | 1-0 | 1-2 | 1-4 | 1-8 | 1-11 | 2-4 | 2-8 | 3-0 | 3-5 | 3-9 |
| 200.00 | 1-3 | 1-6 | 1-9 | 2-2 | 2-7 | 3-0 | 3-6 | 4-0 | 4-5 | 4-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 |
| 150.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 175.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 |
| 200.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 |
| 225.00 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 | 4-8 |
| 250.00 | 3-4 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 5-0 | 5-4 | 5-6 | 5-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 |
| 150.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 175.00 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 200.00 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 |
| 225.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-6 | 4-9 |
| 250.00 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 |
| 175.00 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 |
| 200.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 |
| 250.00 | 4-2 | 4-4 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 |
| 275.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-4 | 6-5 |
| 300.00 | 6-0 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 |
| 325.00 | 7-1 | 7-4 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-7 | 8-10 | 9-0 |
| 350.00 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-3 | 10-5 |
| 375.00 | 9-5 | 9-9 | 10-0 | 10-4 | 10-7 | 10-11 | 11-2 | 11-6 | 11-9 | 12-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 |
| 175.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 |
| 200.00 | 2-8 | 2-9 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 225.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 |
| 250.00 | 4-3 | 4-4 | 4-6 | 4-7 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 |
| 275.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 |
| 300.00 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 |
| 325.00 | 7-2 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 |
| 350.00 | 8-3 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-0 | 10-3 | 10-6 |
| 375.00 | 9-6 | 9-10 | 10-1 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 | 12-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 225.00 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 |
| 250.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 |
| 275.00 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 |
| 300.00 | 6-6 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 |
| 325.00 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 | 8-6 | 8-7 | 8-9 |
| 350.00 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-1 |
| 375.00 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-7 |
| 400.00 | 11-6 | 11-9 | 11-11 | 12-1 | 12-4 | 12-6 | 12-8 | 12-10 | 13-1 | 13-2 |
| 425.00 | 13-0 | 13-3 | 13-6 | 13-8 | 13-11 | 14-1 | 14-4 | 14-6 | 14-9 | 14-11 |
| 450.00 | 14-7 | 14-10 | 15-1 | 15-4 | 15-7 | 15-10 | 16-1 | 16-3 | 16-6 | 16-9 |
| 475.00 | 16-3 | 16-7 | 16-10 | 17-1 | 17-4 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 |
| 500.00 | 18-0 | 18-4 | 18-8 | 18-11 | 19-3 | 19-6 | 19-10 | 20-1 | 20-5 | 20-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 |
| 225.00 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 |
| 250.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 |
| 275.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 |
| 300.00 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 325.00 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 |
| 350.00 | 8-11 | 9-0 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 |
| 375.00 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 |
| 400.00 | 11-7 | 11-10 | 12-0 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 |
| 425.00 | 13-1 | 13-4 | 13-6 | 13-9 | 13-11 | 14-2 | 14-4 | 14-7 | 14-9 | 15-0 |
| 450.00 | 14-8 | 14-11 | 15-2 | 15-5 | 15-8 | 15-11 | 16-1 | 16-4 | 16-7 | 16-9 |
| 475.00 | 16-4 | 16-8 | 16-11 | 17-2 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 |
| 500.00 | 18-2 | 18-5 | 18-9 | 19-0 | 19-4 | 19-7 | 19-11 | 20-2 | 20-5 | 20-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 |
| 275.00 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 |
| 300.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 |
| 325.00 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 350.00 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-11 | 9-11 |
| 375.00 | 10-6 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 | 11-2 | 11-3 | 11-4 | 11-5 |
| 400.00 | 11-11 | 12-1 | 12-2 | 12-4 | 12-5 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 |
| 425.00 | 13-6 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 | 14-4 | 14-5 | 14-7 | 14-8 |
| 450.00 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 | 16-6 |
| 475.00 | 16-10 | 17-0 | 17-2 | 17-4 | 17-6 | 17-8 | 17-10 | 18-1 | 18-2 | 18-4 |
| 500.00 | 18-8 | 18-10 | 19-1 | 19-3 | 19-5 | 19-7 | 19-10 | 20-0 | 20-2 | 20-4 |
| 525.00 | 20-7 | 20-9 | 21-0 | 21-3 | 21-5 | 21-8 | 21-10 | 22-1 | 22-3 | 22-5 |
| 550.00 | 22-7 | 22-10 | 23-1 | 23-3 | 23-6 | 23-9 | 24-0 | 24-2 | 24-5 | 24-8 |
| 575.00 | 24-8 | 24-11 | 25-2 | 25-6 | 25-9 | 26-0 | 26-3 | 26-6 | 26-8 | 26-11 |
| 600.00 | 26-11 | 27-2 | 27-5 | 27-9 | 28-0 | 28-3 | 28-7 | 28-10 | 29-1 | 29-4 |
| 625.00 | 29-2 | 29-6 | 29-9 | 30-1 | 30-5 | 30-8 | 31-0 | 31-3 | 31-7 | 31-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 |
| 275.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 |
| 300.00 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 |
| 325.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 |
| 350.00 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 375.00 | 10-6 | 10-8 | 10-9 | 10-10 | 10-11 | 11-1 | 11-2 | 11-3 | 11-4 | 11-6 |
| 400.00 | 12-0 | 12-1 | 12-3 | 12-4 | 12-5 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 |
| 425.00 | 13-6 | 13-8 | 13-10 | 13-11 | 14-1 | 14-2 | 14-4 | 14-6 | 14-7 | 14-9 |
| 450.00 | 15-2 | 15-4 | 15-6 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-4 | 16-6 |
| 475.00 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 |
| 500.00 | 18-9 | 18-11 | 19-1 | 19-4 | 19-6 | 19-8 | 19-10 | 20-0 | 20-3 | 20-5 |
| 525.00 | 20-8 | 20-10 | 21-1 | 21-3 | 21-6 | 21-8 | 21-11 | 22-1 | 22-3 | 22-6 |
| 550.00 | 22-8 | 22-11 | 23-2 | 23-4 | 23-7 | 23-10 | 24-0 | 24-3 | 24-6 | 24-8 |
| 575.00 | 24-9 | 25-0 | 25-3 | 25-6 | 25-9 | 26-0 | 26-3 | 26-6 | 26-9 | 27-0 |
| 600.00 | 27-0 | 27-3 | 27-6 | 27-10 | 28-1 | 28-4 | 28-7 | 28-10 | 29-2 | 29-5 |
| 625.00 | 29-3 | 29-7 | 29-11 | 30-2 | 30-6 | 30-9 | 31-1 | 31-4 | 31-7 | 31-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 0.52 | 1500 | 0.52 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.15 | 1639 | 0.15 | 1639 |
| 30 | 0 | 0 | 0 | 0.197 | 0.19 | 1265 | 0.19 | 1279 |
| 40 | 0 | 0 | 0 | 0.197 | 0.22 | 1138 | 0.21 | 1159 |
| 50 | 0 | 0 | 0 | 0.197 | 0.24 | 1013 | 0.24 | 1039 |
| 60 | 0 | 0 | 0 | 0.197 | 0.28 | 890 | 0.27 | 920 |
| 70 | 0 | 0 | 0 | 0.197 | 0.32 | 771 | 0.31 | 803 |
| 80 | 0 | 0 | 0 | 0.197 | 0.37 | 657 | 0.36 | 691 |
| 90 | 0 | 0 | 0 | 0.197 | 0.45 | 552 | 0.42 | 585 |
| 100 | 0 | 0 | 0 | 0.197 | 0.54 | 460 | 0.5 | 490 |
| 110 | 0 | 0 | 0 | 0.197 | 0.64 | 384 | 0.6 | 409 |
| 120 | 0 | 0 | 0 | 0.197 | 0.76 | 325 | 0.7 | 353 |
| 130 | 0 | 0 | 0 | 0.197 | 0.87 | 285 | 0.8 | 310 |
| 167 | 0 | 0 | 0 | 0.197 | 1.24 | 199 | 1.16 | 212 |
| 212 | 0 | 0 | 0 | 0.197 | 1.62 | 152 | 1.55 | 159 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 2.09 | 1500 | 2.09 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.74 | 1338 | 0.73 | 1346 |
| 30 | 0 | 0 | 0 | 0.197 | 0.99 | 994 | 0.97 | 1019 |
| 40 | 0 | 0 | 0 | 0.197 | 1.11 | 890 | 1.07 | 917 |
| 50 | 0 | 0 | 0 | 0.197 | 1.24 | 794 | 1.2 | 822 |
| 60 | 0 | 0 | 0 | 0.197 | 1.39 | 708 | 1.34 | 735 |
| 70 | 0 | 0 | 0 | 0.197 | 1.56 | 632 | 1.5 | 656 |
| 80 | 0 | 0 | 0 | 0.197 | 1.74 | 567 | 1.68 | 588 |
| 90 | 0 | 0 | 0 | 0.197 | 1.93 | 512 | 1.86 | 530 |
| 100 | 0 | 0 | 0 | 0.197 | 2.12 | 466 | 2.05 | 481 |
| 110 | 0 | 0 | 0 | 0.197 | 2.3 | 428 | 2.24 | 440 |
| 120 | 0 | 0 | 0 | 0.197 | 2.49 | 396 | 2.42 | 408 |
| 130 | 0 | 0 | 0 | 0.197 | 2.67 | 369 | 2.58 | 383 |
| 167 | 0 | 0 | 0 | 0.197 | 3.24 | 305 | 3.14 | 314 |
| 212 | 0 | 0 | 0 | 0.197 | 3.85 | 256 | 3.76 | 262 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 4.71 | 1500 | 4.71 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 2.35 | 944 | 2.29 | 966 |
| 30 | 0 | 0 | 0 | 0.197 | 3.03 | 732 | 2.94 | 753 |
| 40 | 0 | 0 | 0 | 0.197 | 3.27 | 677 | 3.18 | 696 |
| 50 | 0 | 0 | 0 | 0.197 | 3.52 | 629 | 3.43 | 646 |
| 60 | 0 | 0 | 0 | 0.197 | 3.77 | 588 | 3.68 | 603 |
| 70 | 0 | 0 | 0 | 0.197 | 4.02 | 552 | 3.93 | 565 |
| 80 | 0 | 0 | 0 | 0.197 | 4.26 | 520 | 4.17 | 531 |
| 90 | 0 | 0 | 0 | 0.197 | 4.5 | 493 | 4.42 | 502 |
| 100 | 0 | 0 | 0 | 0.197 | 4.74 | 468 | 4.66 | 476 |
| 110 | 0 | 0 | 0 | 0.197 | 4.97 | 447 | 4.89 | 454 |
| 120 | 0 | 0 | 0 | 0.197 | 5.19 | 428 | 5.11 | 434 |
| 130 | 0 | 0 | 0 | 0.197 | 5.41 | 410 | 5.31 | 418 |
| 167 | 0 | 0 | 0 | 0.197 | 6.11 | 364 | 6 | 370 |
| 212 | 0 | 0 | 0 | 0.197 | 6.88 | 323 | 6.77 | 328 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 8.37 | 1500 | 8.37 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 5.63 | 700 | 5.51 | 716 |
| 30 | 0 | 0 | 0 | 0.197 | 6.52 | 605 | 6.39 | 617 |
| 40 | 0 | 0 | 0 | 0.197 | 6.8 | 580 | 6.68 | 590 |
| 50 | 0 | 0 | 0 | 0.197 | 7.08 | 557 | 6.97 | 566 |
| 60 | 0 | 0 | 0 | 0.197 | 7.36 | 536 | 7.25 | 544 |
| 70 | 0 | 0 | 0 | 0.197 | 7.63 | 517 | 7.52 | 524 |
| 80 | 0 | 0 | 0 | 0.197 | 7.89 | 500 | 7.79 | 506 |
| 90 | 0 | 0 | 0 | 0.197 | 8.15 | 484 | 8.06 | 490 |
| 100 | 0 | 0 | 0 | 0.197 | 8.41 | 470 | 8.32 | 474 |
| 110 | 0 | 0 | 0 | 0.197 | 8.65 | 456 | 8.57 | 460 |
| 120 | 0 | 0 | 0 | 0.197 | 8.9 | 444 | 8.82 | 448 |
| 130 | 0 | 0 | 0 | 0.197 | 9.14 | 432 | 9.04 | 437 |
| 167 | 0 | 0 | 0 | 0.197 | 9.92 | 398 | 9.8 | 403 |
| 212 | 0 | 0 | 0 | 0.197 | 10.8 | 366 | 10.68 | 370 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 13.1 | 1500 | 13.1 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 10.28 | 600 | 10.14 | 608 |
| 30 | 0 | 0 | 0 | 0.197 | 11.19 | 551 | 11.06 | 558 |
| 40 | 0 | 0 | 0 | 0.197 | 11.48 | 537 | 11.35 | 543 |
| 50 | 0 | 0 | 0 | 0.197 | 11.77 | 524 | 11.64 | 530 |
| 60 | 0 | 0 | 0 | 0.197 | 12.05 | 512 | 11.93 | 517 |
| 70 | 0 | 0 | 0 | 0.197 | 12.33 | 501 | 12.21 | 505 |
| 80 | 0 | 0 | 0 | 0.197 | 12.6 | 490 | 12.49 | 494 |
| 90 | 0 | 0 | 0 | 0.197 | 12.87 | 480 | 12.77 | 483 |
| 100 | 0 | 0 | 0 | 0.197 | 13.13 | 470 | 13.04 | 473 |
| 110 | 0 | 0 | 0 | 0.197 | 13.39 | 461 | 13.31 | 464 |
| 120 | 0 | 0 | 0 | 0.197 | 13.65 | 452 | 13.57 | 455 |
| 130 | 0 | 0 | 0 | 0.197 | 13.9 | 444 | 13.79 | 448 |
| 167 | 0 | 0 | 0 | 0.197 | 14.74 | 419 | 14.61 | 423 |
| 212 | 0 | 0 | 0 | 0.197 | 15.68 | 394 | 15.56 | 397 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-2 | 1-4 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-10 |
| 200.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 | 2-0 | 2-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-8 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 |
| 175.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-8 | 2-0 |
| 200.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-9 | 2-2 | 2-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 |
| 125.00 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 |
| 150.00 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 1 | 1- 2 | 1- 3 |
| 175.00 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 2 | 1- 3 | 1- 5 | 1- 7 | 1- 9 |
| 200.00 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 4 | 1- 6 | 1- 8 | 1-10 | 2- 1 | 2- 3 |
| 225.00 | 1- 1 | 1- 3 | 1- 4 | 1- 6 | 1- 8 | 1-11 | 2- 1 | 2- 4 | 2- 7 | 2-10 |
| 250.00 | 1- 4 | 1- 6 | 1- 8 | 1-10 | 2- 1 | 2- 4 | 2- 7 | 2-11 | 3- 2 | 3- 6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 |
| 125.00 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 |
| 150.00 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 4 |
| 175.00 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 1 | 1- 2 | 1- 4 | 1- 6 | 1- 7 | 1- 9 |
| 200.00 | 0-11 | 1- 0 | 1- 1 | 1- 3 | 1- 5 | 1- 7 | 1- 9 | 1-11 | 2- 1 | 2- 4 |
| 225.00 | 1- 2 | 1- 3 | 1- 5 | 1- 7 | 1- 9 | 2- 0 | 2- 2 | 2- 5 | 2- 8 | 2-11 |
| 250.00 | 1- 5 | 1- 7 | 1- 9 | 1-11 | 2- 2 | 2- 5 | 2- 9 | 3- 0 | 3- 4 | 3- 7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0- 8 | 0- 9 | 0-10 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 1 | 1- 2 | 1- 3 |
| 175.00 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 | 1- 8 |
| 200.00 | 1- 2 | 1- 4 | 1- 5 | 1- 6 | 1- 8 | 1- 9 | 1-10 | 2- 0 | 2- 1 | 2- 2 |
| 225.00 | 1- 6 | 1- 8 | 1- 9 | 1-11 | 2- 1 | 2- 3 | 2- 4 | 2- 6 | 2- 7 | 2- 9 |
| 250.00 | 1-11 | 2- 1 | 2- 3 | 2- 5 | 2- 7 | 2- 9 | 2-11 | 3- 1 | 3- 3 | 3- 5 |
| 275.00 | 2- 3 | 2- 6 | 2- 8 | 2-11 | 3- 1 | 3- 4 | 3- 6 | 3- 9 | 3-11 | 4- 1 |
| 300.00 | 2- 9 | 2-11 | 3- 2 | 3- 5 | 3- 8 | 3-11 | 4- 2 | 4- 5 | 4- 8 | 4-11 |
| 325.00 | 3- 2 | 3- 5 | 3- 9 | 4- 0 | 4- 4 | 4- 7 | 4-11 | 5- 2 | 5- 6 | 5- 9 |
| 350.00 | 3- 8 | 4- 0 | 4- 4 | 4- 8 | 5- 0 | 5- 4 | 5- 8 | 6- 0 | 6- 4 | 6- 8 |
| 375.00 | 4- 3 | 4- 7 | 5- 0 | 5- 4 | 5- 9 | 6- 2 | 6- 6 | 6-11 | 7- 3 | 7- 8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0- 8 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 2 | 1- 3 |
| 175.00 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 | 1- 8 |
| 200.00 | 1- 3 | 1- 4 | 1- 5 | 1- 7 | 1- 8 | 1- 9 | 1-11 | 2- 0 | 2- 1 | 2- 2 |
| 225.00 | 1- 7 | 1- 8 | 1-10 | 2- 0 | 2- 1 | 2- 3 | 2- 5 | 2- 6 | 2- 8 | 2-10 |
| 250.00 | 1-11 | 2- 1 | 2- 3 | 2- 5 | 2- 7 | 2- 9 | 3- 0 | 3- 2 | 3- 3 | 3- 5 |
| 275.00 | 2- 4 | 2- 7 | 2- 9 | 3- 0 | 3- 2 | 3- 5 | 3- 7 | 3- 9 | 4- 0 | 4- 2 |
| 300.00 | 2- 9 | 3- 0 | 3- 3 | 3- 6 | 3- 9 | 4- 0 | 4- 3 | 4- 6 | 4- 9 | 5- 0 |
| 325.00 | 3- 3 | 3- 7 | 3-10 | 4- 2 | 4- 5 | 4- 9 | 5- 0 | 5- 3 | 5- 7 | 5-10 |
| 350.00 | 3-10 | 4- 1 | 4- 5 | 4-10 | 5- 2 | 5- 6 | 5-10 | 6- 2 | 6- 5 | 6- 9 |
| 375.00 | 4- 4 | 4- 9 | 5- 1 | 5- 6 | 5-11 | 6- 3 | 6- 8 | 7- 0 | 7- 5 | 7- 9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-10 | 1-11 | 1-11 | 2- 0 | 2- 1 | 2- 2 |
| 225.00 | 1-11 | 2- 0 | 2- 1 | 2- 2 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 |
| 250.00 | 2- 5 | 2- 6 | 2- 7 | 2- 9 | 2-10 | 2-11 | 3- 1 | 3- 2 | 3- 3 | 3- 4 |
| 275.00 | 2-11 | 3- 0 | 3- 2 | 3- 4 | 3- 5 | 3- 7 | 3- 8 | 3-10 | 3-11 | 4- 1 |
| 300.00 | 3- 5 | 3- 7 | 3- 9 | 3-11 | 4- 1 | 4- 3 | 4- 5 | 4- 6 | 4- 8 | 4-10 |
| 325.00 | 4- 0 | 4- 3 | 4- 5 | 4- 7 | 4- 9 | 5- 0 | 5- 2 | 5- 4 | 5- 6 | 5- 8 |
| 350.00 | 4- 8 | 4-11 | 5- 1 | 5- 4 | 5- 7 | 5- 9 | 6- 0 | 6- 2 | 6- 4 | 6- 7 |
| 375.00 | 5- 4 | 5- 7 | 5-10 | 6- 1 | 6- 4 | 6- 7 | 6-10 | 7- 1 | 7- 4 | 7- 6 |
| 400.00 | 6- 1 | 6- 5 | 6- 8 | 7- 0 | 7- 3 | 7- 6 | 7-10 | 8- 1 | 8- 4 | 8- 7 |
| 425.00 | 6-11 | 7- 3 | 7- 7 | 7-10 | 8- 2 | 8- 6 | 8-10 | 9- 1 | 9- 5 | 9- 8 |
| 450.00 | 7- 9 | 8- 1 | 8- 6 | 8-10 | 9- 2 | 9- 6 | 9-10 | 10- 2 | 10- 6 | 10-10 |
| 475.00 | 8- 7 | 9- 0 | 9- 5 | 9-10 | 10- 3 | 10- 7 | 11- 0 | 11- 4 | 11- 9 | 12- 1 |
| 500.00 | 9- 6 | 10- 0 | 10- 5 | 10-11 | 11- 4 | 11- 9 | 12- 2 | 12- 7 | 13- 0 | 13- 5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1- 7 | 1- 8 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 0 | 2- 0 | 2- 1 | 2- 2 |
| 225.00 | 2- 0 | 2- 1 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 |
| 250.00 | 2- 5 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 3- 0 | 3- 1 | 3- 2 | 3- 3 | 3- 5 |
| 275.00 | 2-11 | 3- 1 | 3- 3 | 3- 4 | 3- 6 | 3- 7 | 3- 9 | 3-10 | 4- 0 | 4- 1 |
| 300.00 | 3- 6 | 3- 8 | 3-10 | 4- 0 | 4- 2 | 4- 3 | 4- 5 | 4- 7 | 4- 9 | 4-10 |
| 325.00 | 4- 1 | 4- 4 | 4- 6 | 4- 8 | 4-10 | 5- 0 | 5- 3 | 5- 5 | 5- 7 | 5- 9 |
| 350.00 | 4- 9 | 5- 0 | 5- 2 | 5- 5 | 5- 8 | 5-10 | 6- 1 | 6- 3 | 6- 5 | 6- 8 |
| 375.00 | 5- 6 | 5- 9 | 6- 0 | 6- 3 | 6- 6 | 6- 8 | 6-11 | 7- 2 | 7- 5 | 7- 7 |
| 400.00 | 6- 3 | 6- 6 | 6-10 | 7- 1 | 7- 4 | 7- 8 | 7-11 | 8- 2 | 8- 5 | 8- 8 |
| 425.00 | 7- 0 | 7- 4 | 7- 8 | 8- 0 | 8- 4 | 8- 7 | 8-11 | 9- 2 | 9- 6 | 9- 9 |
| 450.00 | 7-11 | 8- 3 | 8- 7 | 9- 0 | 9- 4 | 9- 8 | 10- 0 | 10- 4 | 10- 8 | 10-11 |
| 475.00 | 8- 9 | 9- 2 | 9- 7 | 10- 0 | 10- 5 | 10- 9 | 11- 2 | 11- 6 | 11-10 | 12- 2 |
| 500.00 | 9- 9 | 10- 2 | 10- 8 | 11- 1 | 11- 6 | 11-11 | 12- 4 | 12- 9 | 13- 2 | 13- 6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2- 8 | 2- 9 | 2-10 | 2-11 | 3- 0 | 3- 1 | 3- 1 | 3- 2 | 3- 3 | 3- 4 |
| 275.00 | 3- 3 | 3- 4 | 3- 5 | 3- 6 | 3- 7 | 3- 8 | 3- 9 | 3-10 | 3-11 | 4- 0 |
| 300.00 | 3-10 | 4- 0 | 4- 1 | 4- 2 | 4- 4 | 4- 5 | 4- 6 | 4- 7 | 4- 8 | 4- 9 |
| 325.00 | 4- 7 | 4- 8 | 4-10 | 4-11 | 5- 0 | 5- 2 | 5- 3 | 5- 5 | 5- 6 | 5- 7 |
| 350.00 | 5- 3 | 5- 5 | 5- 7 | 5- 8 | 5-10 | 6- 0 | 6- 1 | 6- 3 | 6- 5 | 6- 6 |
| 375.00 | 6- 1 | 6- 3 | 6- 5 | 6- 7 | 6- 9 | 6-10 | 7- 0 | 7- 2 | 7- 4 | 7- 6 |
| 400.00 | 6-11 | 7- 1 | 7- 3 | 7- 5 | 7- 8 | 7-10 | 8- 0 | 8- 2 | 8- 4 | 8- 6 |
| 425.00 | 7- 9 | 8- 0 | 8- 2 | 8- 5 | 8- 7 | 8-10 | 9- 0 | 9- 3 | 9- 5 | 9- 7 |
| 450.00 | 8- 9 | 8-11 | 9- 2 | 9- 5 | 9- 8 | 9-11 | 10- 1 | 10- 4 | 10- 7 | 10- 9 |
| 475.00 | 9- 8 | 10- 0 | 10- 3 | 10- 6 | 10- 9 | 11- 0 | 11- 3 | 11- 6 | 11- 9 | 12- 0 |
| 500.00 | 10- 9 | 11- 1 | 11- 4 | 11- 8 | 11-11 | 12- 3 | 12- 6 | 12- 9 | 13- 0 | 13- 4 |
| 525.00 | 11-10 | 12- 2 | 12- 6 | 12-10 | 13- 2 | 13- 6 | 13- 9 | 14- 1 | 14- 5 | 14- 8 |
| 550.00 | 13- 0 | 13- 5 | 13- 9 | 14- 1 | 14- 5 | 14- 9 | 15- 1 | 15- 5 | 15- 9 | 16- 1 |
| 575.00 | 14- 3 | 14- 8 | 15- 0 | 15- 5 | 15- 9 | 16- 2 | 16- 6 | 16-11 | 17- 3 | 17- 7 |
| 600.00 | 15- 6 | 15-11 | 16- 4 | 16- 9 | 17- 2 | 17- 7 | 18- 0 | 18- 5 | 18- 9 | 19- 2 |
| 625.00 | 16-10 | 17- 3 | 17- 9 | 18- 2 | 18- 8 | 19- 1 | 19- 6 | 20- 0 | 20- 5 | 20-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2- 9 | 2-10 | 2-10 | 2-11 | 3- 0 | 3- 1 | 3- 2 | 3- 3 | 3- 3 | 3- 4 |
| 275.00 | 3- 4 | 3- 5 | 3- 6 | 3- 7 | 3- 8 | 3- 9 | 3-10 | 3-11 | 4- 0 | 4- 1 |
| 300.00 | 3-11 | 4- 0 | 4- 2 | 4- 3 | 4- 4 | 4- 5 | 4- 6 | 4- 8 | 4- 9 | 4-10 |
| 325.00 | 4- 7 | 4- 9 | 4-10 | 5- 0 | 5- 1 | 5- 2 | 5- 4 | 5- 5 | 5- 7 | 5- 8 |
| 350.00 | 5- 4 | 5- 6 | 5- 7 | 5- 9 | 5-11 | 6- 0 | 6- 2 | 6- 4 | 6- 5 | 6- 7 |
| 375.00 | 6- 1 | 6- 4 | 6- 5 | 6- 7 | 6- 9 | 6-11 | 7- 1 | 7- 3 | 7- 5 | 7- 6 |
| 400.00 | 7- 0 | 7- 2 | 7- 4 | 7- 6 | 7- 9 | 7-11 | 8- 1 | 8- 3 | 8- 5 | 8- 7 |
| 425.00 | 7-10 | 8- 1 | 8- 4 | 8- 6 | 8- 8 | 8-11 | 9- 1 | 9- 4 | 9- 6 | 9- 8 |
| 450.00 | 8-10 | 9- 1 | 9- 4 | 9- 6 | 9- 9 | 10- 0 | 10- 2 | 10- 5 | 10- 8 | 10-10 |
| 475.00 | 9-10 | 10- 1 | 10- 4 | 10- 7 | 10-10 | 11- 1 | 11- 4 | 11- 7 | 11-10 | 12- 1 |
| 500.00 | 10-11 | 11- 2 | 11- 6 | 11- 9 | 12- 1 | 12- 4 | 12- 7 | 12-10 | 13- 2 | 13- 5 |
| 525.00 | 12- 0 | 12- 4 | 12- 8 | 13- 0 | 13- 3 | 13- 7 | 13-11 | 14- 2 | 14- 6 | 14- 9 |
| 550.00 | 13- 2 | 13- 6 | 13-11 | 14- 3 | 14- 7 | 14-11 | 15- 3 | 15- 7 | 15-11 | 16- 2 |
| 575.00 | 14- 5 | 14-10 | 15- 2 | 15- 7 | 15-11 | 16- 4 | 16- 8 | 17- 0 | 17- 4 | 17- 9 |
| 600.00 | 15- 8 | 16- 1 | 16- 6 | 16-11 | 17- 4 | 17- 9 | 18- 2 | 18- 6 | 18-11 | 19- 3 |
| 625.00 | 17- 0 | 17- 6 | 17-11 | 18- 5 | 18-10 | 19- 3 | 19- 8 | 20- 1 | 20- 6 | 20-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 0.39 | 2000 | 0.39 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.11 | 2180 | 0.11 | 2180 |
| 30 | 0 | 0 | 0 | 0.197 | 0.14 | 1810 | 0.14 | 1824 |
| 40 | 0 | 0 | 0 | 0.197 | 0.15 | 1680 | 0.14 | 1703 |
| 50 | 0 | 0 | 0 | 0.197 | 0.16 | 1551 | 0.16 | 1582 |
| 60 | 0 | 0 | 0 | 0.197 | 0.17 | 1422 | 0.17 | 1460 |
| 70 | 0 | 0 | 0 | 0.197 | 0.19 | 1294 | 0.18 | 1338 |
| 80 | 0 | 0 | 0 | 0.197 | 0.21 | 1167 | 0.2 | 1216 |
| 90 | 0 | 0 | 0 | 0.197 | 0.24 | 1042 | 0.23 | 1093 |
| 100 | 0 | 0 | 0 | 0.197 | 0.27 | 918 | 0.25 | 972 |
| 110 | 0 | 0 | 0 | 0.197 | 0.31 | 798 | 0.29 | 853 |
| 120 | 0 | 0 | 0 | 0.197 | 0.36 | 682 | 0.33 | 737 |
| 130 | 0 | 0 | 0 | 0.197 | 0.43 | 575 | 0.39 | 626 |
| 167 | 0 | 0 | 0 | 0.197 | 0.76 | 323 | 0.68 | 364 |
| 212 | 0 | 0 | 0 | 0.197 | 1.22 | 202 | 1.12 | 219 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 1.57 | 2000 | 1.57 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.49 | 2011 | 0.49 | 2011 |
| 30 | 0 | 0 | 0 | 0.197 | 0.6 | 1637 | 0.59 | 1661 |
| 40 | 0 | 0 | 0 | 0.197 | 0.65 | 1513 | 0.64 | 1545 |
| 50 | 0 | 0 | 0 | 0.197 | 0.71 | 1391 | 0.69 | 1429 |
| 60 | 0 | 0 | 0 | 0.197 | 0.77 | 1272 | 0.75 | 1314 |
| 70 | 0 | 0 | 0 | 0.197 | 0.85 | 1155 | 0.82 | 1200 |
| 80 | 0 | 0 | 0 | 0.197 | 0.94 | 1042 | 0.9 | 1090 |
| 90 | 0 | 0 | 0 | 0.197 | 1.05 | 936 | 1 | 983 |
| 100 | 0 | 0 | 0 | 0.197 | 1.18 | 836 | 1.12 | 882 |
| 110 | 0 | 0 | 0 | 0.197 | 1.32 | 745 | 1.25 | 788 |
| 120 | 0 | 0 | 0 | 0.197 | 1.48 | 664 | 1.4 | 702 |
| 130 | 0 | 0 | 0 | 0.197 | 1.66 | 594 | 1.57 | 627 |
| 167 | 0 | 0 | 0 | 0.197 | 2.29 | 430 | 2.17 | 455 |
| 212 | 0 | 0 | 0 | 0.197 | 3.01 | 327 | 2.88 | 342 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 3.53 | 2000 | 3.53 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 1.28 | 1730 | 1.27 | 1744 |
| 30 | 0 | 0 | 0 | 0.197 | 1.6 | 1384 | 1.56 | 1418 |
| 40 | 0 | 0 | 0 | 0.197 | 1.74 | 1275 | 1.69 | 1313 |
| 50 | 0 | 0 | 0 | 0.197 | 1.89 | 1172 | 1.83 | 1212 |
| 60 | 0 | 0 | 0 | 0.197 | 2.06 | 1074 | 1.99 | 1116 |
| 70 | 0 | 0 | 0 | 0.197 | 2.25 | 984 | 2.16 | 1025 |
| 80 | 0 | 0 | 0 | 0.197 | 2.46 | 901 | 2.36 | 940 |
| 90 | 0 | 0 | 0 | 0.197 | 2.68 | 827 | 2.57 | 862 |
| 100 | 0 | 0 | 0 | 0.197 | 2.92 | 760 | 2.8 | 792 |
| 110 | 0 | 0 | 0 | 0.197 | 3.16 | 702 | 3.04 | 730 |
| 120 | 0 | 0 | 0 | 0.197 | 3.41 | 651 | 3.28 | 675 |
| 130 | 0 | 0 | 0 | 0.197 | 3.66 | 607 | 3.53 | 628 |
| 167 | 0 | 0 | 0 | 0.197 | 4.5 | 493 | 4.35 | 510 |
| 212 | 0 | 0 | 0 | 0.197 | 5.41 | 410 | 5.26 | 422 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 6.27 | 2000 | 6.27 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 2.83 | 1394 | 2.77 | 1423 |
| 30 | 0 | 0 | 0 | 0.197 | 3.51 | 1122 | 3.4 | 1158 |
| 40 | 0 | 0 | 0 | 0.197 | 3.78 | 1044 | 3.65 | 1079 |
| 50 | 0 | 0 | 0 | 0.197 | 4.05 | 973 | 3.92 | 1007 |
| 60 | 0 | 0 | 0 | 0.197 | 4.34 | 909 | 4.19 | 940 |
| 70 | 0 | 0 | 0 | 0.197 | 4.63 | 851 | 4.48 | 880 |
| 80 | 0 | 0 | 0 | 0.197 | 4.93 | 799 | 4.77 | 826 |
| 90 | 0 | 0 | 0 | 0.197 | 5.23 | 753 | 5.07 | 777 |
| 100 | 0 | 0 | 0 | 0.197 | 5.53 | 712 | 5.38 | 733 |
| 110 | 0 | 0 | 0 | 0.197 | 5.83 | 676 | 5.68 | 694 |
| 120 | 0 | 0 | 0 | 0.197 | 6.13 | 643 | 5.98 | 659 |
| 130 | 0 | 0 | 0 | 0.197 | 6.42 | 614 | 6.28 | 628 |
| 167 | 0 | 0 | 0 | 0.197 | 7.4 | 533 | 7.24 | 545 |
| 212 | 0 | 0 | 0 | 0.197 | 8.46 | 467 | 8.29 | 476 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E DISTRIBUTION SAG AND TENSION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 9.81 | 2000 | 9.81 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 5.56 | 1107 | 5.42 | 1137 |
| 30 | 0 | 0 | 0 | 0.197 | 6.59 | 935 | 6.41 | 961 |
| 40 | 0 | 0 | 0 | 0.197 | 6.94 | 888 | 6.75 | 913 |
| 50 | 0 | 0 | 0 | 0.197 | 7.29 | 845 | 7.1 | 868 |
| 60 | 0 | 0 | 0 | 0.197 | 7.64 | 807 | 7.45 | 828 |
| 70 | 0 | 0 | 0 | 0.197 | 7.98 | 772 | 7.79 | 791 |
| 80 | 0 | 0 | 0 | 0.197 | 8.33 | 740 | 8.14 | 757 |
| 90 | 0 | 0 | 0 | 0.197 | 8.67 | 711 | 8.48 | 727 |
| 100 | 0 | 0 | 0 | 0.197 | 9 | 685 | 8.82 | 699 |
| 110 | 0 | 0 | 0 | 0.197 | 9.33 | 661 | 9.16 | 673 |
| 120 | 0 | 0 | 0 | 0.197 | 9.65 | 639 | 9.49 | 650 |
| 130 | 0 | 0 | 0 | 0.197 | 9.97 | 618 | 9.82 | 628 |
| 167 | 0 | 0 | 0 | 0.197 | 11.05 | 558 | 10.87 | 567 |
| 212 | 0 | 0 | 0 | 0.197 | 12.21 | 505 | 12.03 | 513 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 |
| 150.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 200.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 225.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 225.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 |
| 275.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 |
| 300.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-0 |
| 325.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-7 |
| 350.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-3 | 3-6 | 3-10 | 4-2 |
| 375.00 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-4 | 4-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 175.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 200.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 225.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 |
| 275.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 |
| 300.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 |
| 325.00 | 1-9 | 1-11 | 2-0 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 |
| 350.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 4-0 | 4-4 |
| 375.00 | 2- 4 | 2- 6 | 2- 9 | 2-11 | 3- 3 | 3- 6 | 3-10 | 4- 2 | 4- 7 | 4-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 |
| 250.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 275.00 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 |
| 300.00 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 325.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 |
| 350.00 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-1 | 4-4 |
| 375.00 | 2-9 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 |
| 400.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-5 | 5-8 |
| 425.00 | 3-7 | 3-10 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 |
| 450.00 | 4-0 | 4-4 | 4-7 | 4-11 | 5-4 | 5-8 | 6-1 | 6-5 | 6-10 | 7-2 |
| 475.00 | 4-6 | 4-10 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 |
| 500.00 | 5-0 | 5-4 | 5-8 | 6-1 | 6-7 | 7-0 | 7-6 | 7-11 | 8-5 | 8-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 |
| 225.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 250.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 |
| 275.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 |
| 300.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 325.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 |
| 350.00 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-6 |
| 375.00 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 |
| 400.00 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 | 5-10 |
| 425.00 | 3-8 | 4-0 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 |
| 450.00 | 4-2 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 | 6-3 | 6-7 | 7-0 | 7-5 |
| 475.00 | 4-7 | 4-11 | 5-4 | 5-9 | 6-1 | 6-6 | 6-11 | 7-5 | 7-10 | 8-3 |
| 500.00 | 5-1 | 5-6 | 5-11 | 6-4 | 6-9 | 7-3 | 7-8 | 8-2 | 8-8 | 9-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 275.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 |
| 300.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 |
| 325.00 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 | 3-10 |
| 350.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 |
| 375.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 |
| 400.00 | 3-11 | 4-1 | 4-4 | 4-7 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 |
| 425.00 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 | 6-2 | 6-4 | 6-7 |
| 450.00 | 4-11 | 5-2 | 5-6 | 5-9 | 6-0 | 6-4 | 6-7 | 6-10 | 7-2 | 7-5 |
| 475.00 | 5-6 | 5-9 | 6-1 | 6-5 | 6-9 | 7-0 | 7-4 | 7-8 | 8-0 | 8-3 |
| 500.00 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-10 | 8-2 | 8-6 | 8-10 | 9-2 |
| 525.00 | 6-8 | 7-1 | 7-5 | 7-10 | 8-3 | 8-7 | 9-0 | 9-4 | 9-9 | 10-1 |
| 550.00 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-5 | 9-10 | 10-3 | 10-8 | 11-1 |
| 575.00 | 8-0 | 8-6 | 8-11 | 9-5 | 9-10 | 10-4 | 10-9 | 11-3 | 11-8 | 12-1 |
| 600.00 | 8-9 | 9-3 | 9-9 | 10-3 | 10-9 | 11-3 | 11-9 | 12-3 | 12-8 | 13-2 |
| 625.00 | 9-6 | 10-0 | 10-7 | 11-1 | 11-8 | 12-2 | 12-9 | 13-3 | 13-9 | 14-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 275.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 |
| 300.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 |
| 325.00 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-10 | 3-11 |
| 350.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 |
| 375.00 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 |
| 400.00 | 4-0 | 4-3 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 |
| 425.00 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 |
| 450.00 | 5-1 | 5-4 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 | 7-0 | 7-3 | 7-7 |
| 475.00 | 5-8 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 | 7-10 | 8-1 | 8-5 |
| 500.00 | 6-3 | 6-7 | 6-11 | 7-3 | 7-8 | 8-0 | 8-4 | 8-8 | 9-0 | 9-4 |
| 525.00 | 6-11 | 7-3 | 7-8 | 8-0 | 8-5 | 8-10 | 9-2 | 9-7 | 9-11 | 10-3 |
| 550.00 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 | 9-8 | 10-1 | 10-6 | 10-11 | 11-3 |
| 575.00 | 8-3 | 8-9 | 9-2 | 9-8 | 10-1 | 10-7 | 11-0 | 11-6 | 11-11 | 12-4 |
| 600.00 | 9-0 | 9-6 | 10-0 | 10-6 | 11-0 | 11-6 | 12-0 | 12-6 | 13-0 | 13-5 |
| 625.00 | 9-9 | 10-4 | 10-10 | 11-5 | 11-11 | 12-6 | 13-0 | 13-7 | 14-1 | 14-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 0.32 | 2458 | 0.31 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.09 | 2679 | 0.09 | 2694 |
| 30 | 0 | 0 | 0 | 0.197 | 0.11 | 2288 | 0.1 | 2347 |
| 40 | 0 | 0 | 0 | 0.197 | 0.11 | 2158 | 0.11 | 2229 |
| 50 | 0 | 0 | 0 | 0.197 | 0.12 | 2028 | 0.12 | 2110 |
| 60 | 0 | 0 | 0 | 0.197 | 0.13 | 1898 | 0.12 | 1990 |
| 70 | 0 | 0 | 0 | 0.197 | 0.14 | 1768 | 0.13 | 1869 |
| 80 | 0 | 0 | 0 | 0.197 | 0.15 | 1639 | 0.14 | 1747 |
| 90 | 0 | 0 | 0 | 0.197 | 0.16 | 1510 | 0.15 | 1624 |
| 100 | 0 | 0 | 0 | 0.197 | 0.18 | 1382 | 0.16 | 1500 |
| 110 | 0 | 0 | 0 | 0.197 | 0.2 | 1254 | 0.18 | 1376 |
| 120 | 0 | 0 | 0 | 0.197 | 0.22 | 1127 | 0.2 | 1252 |
| 130 | 0 | 0 | 0 | 0.197 | 0.25 | 1002 | 0.22 | 1128 |
| 167 | 0 | 0 | 0 | 0.197 | 0.41 | 605 | 0.35 | 703 |
| 212 | 0 | 0 | 0 | 0.197 | 0.79 | 311 | 0.65 | 377 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 1.27 | 2476 | 1.25 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.38 | 2577 | 0.38 | 2588 |
| 30 | 0 | 0 | 0 | 0.197 | 0.45 | 2191 | 0.44 | 2242 |
| 40 | 0 | 0 | 0 | 0.197 | 0.48 | 2063 | 0.46 | 2125 |
| 50 | 0 | 0 | 0 | 0.197 | 0.51 | 1935 | 0.49 | 2008 |
| 60 | 0 | 0 | 0 | 0.197 | 0.54 | 1809 | 0.52 | 1889 |
| 70 | 0 | 0 | 0 | 0.197 | 0.59 | 1683 | 0.56 | 1771 |
| 80 | 0 | 0 | 0 | 0.197 | 0.63 | 1559 | 0.6 | 1652 |
| 90 | 0 | 0 | 0 | 0.197 | 0.69 | 1436 | 0.64 | 1533 |
| 100 | 0 | 0 | 0 | 0.197 | 0.75 | 1315 | 0.7 | 1415 |
| 110 | 0 | 0 | 0 | 0.197 | 0.82 | 1197 | 0.76 | 1298 |
| 120 | 0 | 0 | 0 | 0.197 | 0.91 | 1083 | 0.83 | 1184 |
| 130 | 0 | 0 | 0 | 0.197 | 1.01 | 974 | 0.92 | 1072 |
| 167 | 0 | 0 | 0 | 0.197 | 1.5 | 655 | 1.37 | 721 |
| 212 | 0 | 0 | 0 | 0.197 | 2.22 | 443 | 2.03 | 486 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 2.82 | 2499 | 2.82 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.92 | 2410 | 0.92 | 2413 |
| 30 | 0 | 0 | 0 | 0.197 | 1.09 | 2035 | 1.07 | 2073 |
| 40 | 0 | 0 | 0 | 0.197 | 1.16 | 1912 | 1.13 | 1959 |
| 50 | 0 | 0 | 0 | 0.197 | 1.24 | 1790 | 1.2 | 1845 |
| 60 | 0 | 0 | 0 | 0.197 | 1.33 | 1671 | 1.28 | 1732 |
| 70 | 0 | 0 | 0 | 0.197 | 1.43 | 1553 | 1.37 | 1619 |
| 80 | 0 | 0 | 0 | 0.197 | 1.54 | 1439 | 1.47 | 1508 |
| 90 | 0 | 0 | 0 | 0.197 | 1.67 | 1329 | 1.58 | 1400 |
| 100 | 0 | 0 | 0 | 0.197 | 1.81 | 1223 | 1.71 | 1294 |
| 110 | 0 | 0 | 0 | 0.197 | 1.98 | 1122 | 1.86 | 1192 |
| 120 | 0 | 0 | 0 | 0.197 | 2.16 | 1028 | 2.03 | 1094 |
| 130 | 0 | 0 | 0 | 0.197 | 2.35 | 942 | 2.21 | 1003 |
| 167 | 0 | 0 | 0 | 0.197 | 3.18 | 696 | 3.01 | 737 |
| 212 | 0 | 0 | 0 | 0.197 | 4.16 | 533 | 3.95 | 562 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 5.02 | 2500 | 5.02 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.83 | 2157 | 1.81 | 2179 |
| 30 | 0 | 0 | 0 | 0.197 | 2.18 | 1805 | 2.13 | 1853 |
| 40 | 0 | 0 | 0 | 0.197 | 2.33 | 1692 | 2.26 | 1746 |
| 50 | 0 | 0 | 0 | 0.197 | 2.49 | 1583 | 2.4 | 1641 |
| 60 | 0 | 0 | 0 | 0.197 | 2.67 | 1477 | 2.56 | 1539 |
| 70 | 0 | 0 | 0 | 0.197 | 2.86 | 1377 | 2.74 | 1439 |
| 80 | 0 | 0 | 0 | 0.197 | 3.08 | 1281 | 2.93 | 1344 |
| 90 | 0 | 0 | 0 | 0.197 | 3.31 | 1191 | 3.15 | 1252 |
| 100 | 0 | 0 | 0 | 0.197 | 3.56 | 1108 | 3.38 | 1166 |
| 110 | 0 | 0 | 0 | 0.197 | 3.82 | 1031 | 3.63 | 1085 |
| 120 | 0 | 0 | 0 | 0.197 | 4.1 | 961 | 3.9 | 1011 |
| 130 | 0 | 0 | 0 | 0.197 | 4.39 | 898 | 4.18 | 943 |
| 167 | 0 | 0 | 0 | 0.197 | 5.46 | 723 | 5.26 | 750 |
| 212 | 0 | 0 | 0 | 0.197 | 6.63 | 595 | 6.41 | 615 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 7.84 | 2500 | 7.84 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 3.3 | 1866 | 3.23 | 1904 |
| 30 | 0 | 0 | 0 | 0.197 | 3.95 | 1557 | 3.82 | 1611 |
| 40 | 0 | 0 | 0 | 0.197 | 4.21 | 1463 | 4.06 | 1519 |
| 50 | 0 | 0 | 0 | 0.197 | 4.48 | 1374 | 4.31 | 1430 |
| 60 | 0 | 0 | 0 | 0.197 | 4.77 | 1291 | 4.57 | 1346 |
| 70 | 0 | 0 | 0 | 0.197 | 5.07 | 1214 | 4.86 | 1267 |
| 80 | 0 | 0 | 0 | 0.197 | 5.39 | 1142 | 5.16 | 1193 |
| 90 | 0 | 0 | 0 | 0.197 | 5.72 | 1076 | 5.48 | 1124 |
| 100 | 0 | 0 | 0 | 0.197 | 6.06 | 1016 | 5.81 | 1060 |
| 110 | 0 | 0 | 0 | 0.197 | 6.41 | 961 | 6.15 | 1002 |
| 120 | 0 | 0 | 0 | 0.197 | 6.76 | 912 | 6.5 | 948 |
| 130 | 0 | 0 | 0 | 0.197 | 7.11 | 867 | 6.85 | 900 |
| 167 | 0 | 0 | 0 | 0.197 | 8.35 | 738 | 8.12 | 759 |
| 212 | 0 | 0 | 0 | 0.197 | 9.68 | 637 | 9.44 | 653 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 275.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 |
| 350.00 | 1-5 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 375.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 200.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 275.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 |
| 325.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-2 | 2-4 |
| 350.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 |
| 375.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 250.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 275.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 300.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 |
| 325.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 |
| 350.00 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 |
| 375.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 |
| 400.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 |
| 425.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 |
| 450.00 | 2-7 | 2-8 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 |
| 475.00 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 |
| 500.00 | 3-2 | 3-4 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 | 4-11 | 5-3 | 5-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 250.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 |
| 275.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 |
| 300.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 |
| 325.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 |
| 350.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 |
| 375.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 |
| 400.00 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 |
| 425.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 |
| 450.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-5 | 3-7 | 3-11 | 4-2 | 4-6 | 4-10 |
| 475.00 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-8 | 5-0 | 5-5 |
| 500.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 6-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 300.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 325.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 350.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 |
| 375.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 |
| 400.00 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 |
| 425.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-2 | 4-5 |
| 450.00 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 |
| 475.00 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-3 | 5-7 |
| 500.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 |
| 525.00 | 4-0 | 4-3 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 6-1 | 6-5 | 6-9 |
| 550.00 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 | 5-11 | 6-3 | 6-8 | 7-0 | 7-5 |
| 575.00 | 4-9 | 5-1 | 5-4 | 5-8 | 6-1 | 6-5 | 6-10 | 7-3 | 7-8 | 8-2 |
| 600.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-7 | 7-0 | 7-5 | 7-11 | 8-4 | 8-10 |
| 625.00 | 5-8 | 6-0 | 6-4 | 6-9 | 7-2 | 7-7 | 8-1 | 8-7 | 9-1 | 9-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 275.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 300.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 325.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 |
| 350.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 375.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 |
| 400.00 | 2-5 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-11 | 4-1 |
| 425.00 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 |
| 450.00 | 3-0 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 |
| 475.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 | 5-6 | 5-9 |
| 500.00 | 3-9 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 |
| 525.00 | 4-1 | 4-4 | 4-8 | 4-11 | 5-3 | 5-7 | 5-11 | 6-4 | 6-8 | 7-1 |
| 550.00 | 4-6 | 4-9 | 5-1 | 5-5 | 5-9 | 6-2 | 6-6 | 6-11 | 7-4 | 7-9 |
| 575.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-6 |
| 600.00 | 5-4 | 5-8 | 6-1 | 6-5 | 6-10 | 7-4 | 7-9 | 8-3 | 8-9 | 9-3 |
| 625.00 | 5-10 | 6-2 | 6-7 | 7-0 | 7-5 | 7-11 | 8-5 | 8-11 | 9-6 | 10-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 0.27 | 2934 | 0.26 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.08 | 3167 | 0.08 | 3198 |
| 30 | 0 | 0 | 0 | 0.197 | 0.09 | 2776 | 0.09 | 2863 |
| 40 | 0 | 0 | 0 | 0.197 | 0.09 | 2645 | 0.09 | 2748 |
| 50 | 0 | 0 | 0 | 0.197 | 0.1 | 2515 | 0.09 | 2633 |
| 60 | 0 | 0 | 0 | 0.197 | 0.1 | 2385 | 0.1 | 2516 |
| 70 | 0 | 0 | 0 | 0.197 | 0.11 | 2254 | 0.1 | 2398 |
| 80 | 0 | 0 | 0 | 0.197 | 0.12 | 2124 | 0.11 | 2278 |
| 90 | 0 | 0 | 0 | 0.197 | 0.12 | 1994 | 0.11 | 2157 |
| 100 | 0 | 0 | 0 | 0.197 | 0.13 | 1865 | 0.12 | 2036 |
| 110 | 0 | 0 | 0 | 0.197 | 0.14 | 1735 | 0.13 | 1913 |
| 120 | 0 | 0 | 0 | 0.197 | 0.15 | 1606 | 0.14 | 1789 |
| 130 | 0 | 0 | 0 | 0.197 | 0.17 | 1477 | 0.15 | 1664 |
| 167 | 0 | 0 | 0 | 0.197 | 0.24 | 1021 | 0.21 | 1199 |
| 212 | 0 | 0 | 0 | 0.197 | 0.42 | 592 | 0.34 | 725 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 1.06 | 2948 | 1.04 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.32 | 3095 | 0.32 | 3126 |
| 30 | 0 | 0 | 0 | 0.197 | 0.36 | 2706 | 0.35 | 2791 |
| 40 | 0 | 0 | 0 | 0.197 | 0.38 | 2577 | 0.37 | 2677 |
| 50 | 0 | 0 | 0 | 0.197 | 0.4 | 2448 | 0.38 | 2562 |
| 60 | 0 | 0 | 0 | 0.197 | 0.42 | 2319 | 0.4 | 2445 |
| 70 | 0 | 0 | 0 | 0.197 | 0.45 | 2191 | 0.42 | 2328 |
| 80 | 0 | 0 | 0 | 0.197 | 0.48 | 2063 | 0.45 | 2209 |
| 90 | 0 | 0 | 0 | 0.197 | 0.51 | 1936 | 0.47 | 2090 |
| 100 | 0 | 0 | 0 | 0.197 | 0.54 | 1809 | 0.5 | 1970 |
| 110 | 0 | 0 | 0 | 0.197 | 0.59 | 1684 | 0.53 | 1850 |
| 120 | 0 | 0 | 0 | 0.197 | 0.63 | 1559 | 0.57 | 1729 |
| 130 | 0 | 0 | 0 | 0.197 | 0.69 | 1436 | 0.61 | 1608 |
| 167 | 0 | 0 | 0 | 0.197 | 0.97 | 1015 | 0.84 | 1170 |
| 212 | 0 | 0 | 0 | 0.197 | 1.48 | 665 | 1.29 | 761 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 2.38 | 2966 | 2.35 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.74 | 2976 | 0.74 | 3006 |
| 30 | 0 | 0 | 0 | 0.197 | 0.85 | 2593 | 0.83 | 2672 |
| 40 | 0 | 0 | 0 | 0.197 | 0.9 | 2466 | 0.87 | 2559 |
| 50 | 0 | 0 | 0 | 0.197 | 0.95 | 2340 | 0.91 | 2445 |
| 60 | 0 | 0 | 0 | 0.197 | 1 | 2214 | 0.95 | 2330 |
| 70 | 0 | 0 | 0 | 0.197 | 1.06 | 2089 | 1 | 2214 |
| 80 | 0 | 0 | 0 | 0.197 | 1.13 | 1966 | 1.06 | 2098 |
| 90 | 0 | 0 | 0 | 0.197 | 1.2 | 1844 | 1.12 | 1982 |
| 100 | 0 | 0 | 0 | 0.197 | 1.29 | 1723 | 1.19 | 1866 |
| 110 | 0 | 0 | 0 | 0.197 | 1.38 | 1605 | 1.27 | 1751 |
| 120 | 0 | 0 | 0 | 0.197 | 1.49 | 1489 | 1.35 | 1636 |
| 130 | 0 | 0 | 0 | 0.197 | 1.61 | 1377 | 1.46 | 1523 |
| 167 | 0 | 0 | 0 | 0.197 | 2.2 | 1009 | 1.96 | 1130 |
| 212 | 0 | 0 | 0 | 0.197 | 3.05 | 728 | 2.78 | 797 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 4.2 | 2986 | 4.18 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 1.4 | 2814 | 1.39 | 2842 |
| 30 | 0 | 0 | 0 | 0.197 | 1.61 | 2440 | 1.57 | 2511 |
| 40 | 0 | 0 | 0 | 0.197 | 1.7 | 2317 | 1.64 | 2399 |
| 50 | 0 | 0 | 0 | 0.197 | 1.79 | 2195 | 1.72 | 2288 |
| 60 | 0 | 0 | 0 | 0.197 | 1.9 | 2075 | 1.81 | 2176 |
| 70 | 0 | 0 | 0 | 0.197 | 2.01 | 1957 | 1.91 | 2065 |
| 80 | 0 | 0 | 0 | 0.197 | 2.14 | 1841 | 2.02 | 1954 |
| 90 | 0 | 0 | 0 | 0.197 | 2.28 | 1727 | 2.14 | 1843 |
| 100 | 0 | 0 | 0 | 0.197 | 2.44 | 1617 | 2.27 | 1735 |
| 110 | 0 | 0 | 0 | 0.197 | 2.61 | 1510 | 2.42 | 1628 |
| 120 | 0 | 0 | 0 | 0.197 | 2.8 | 1408 | 2.59 | 1524 |
| 130 | 0 | 0 | 0 | 0.197 | 3.01 | 1310 | 2.77 | 1423 |
| 167 | 0 | 0 | 0 | 0.197 | 3.93 | 1003 | 3.61 | 1091 |
| 212 | 0 | 0 | 0 | 0.197 | 5.07 | 778 | 4.77 | 827 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 6.53 | 3000 | 6.53 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 2.36 | 2605 | 2.34 | 2636 |
| 30 | 0 | 0 | 0 | 0.197 | 2.74 | 2247 | 2.66 | 2314 |
| 40 | 0 | 0 | 0 | 0.197 | 2.89 | 2131 | 2.79 | 2207 |
| 50 | 0 | 0 | 0 | 0.197 | 3.05 | 2017 | 2.93 | 2100 |
| 60 | 0 | 0 | 0 | 0.197 | 3.23 | 1906 | 3.09 | 1995 |
| 70 | 0 | 0 | 0 | 0.197 | 3.42 | 1798 | 3.26 | 1890 |
| 80 | 0 | 0 | 0 | 0.197 | 3.64 | 1694 | 3.44 | 1788 |
| 90 | 0 | 0 | 0 | 0.197 | 3.86 | 1593 | 3.65 | 1689 |
| 100 | 0 | 0 | 0 | 0.197 | 4.11 | 1498 | 3.87 | 1592 |
| 110 | 0 | 0 | 0 | 0.197 | 4.38 | 1407 | 4.11 | 1499 |
| 120 | 0 | 0 | 0 | 0.197 | 4.66 | 1321 | 4.37 | 1409 |
| 130 | 0 | 0 | 0 | 0.197 | 4.96 | 1242 | 4.65 | 1325 |
| 167 | 0 | 0 | 0 | 0.197 | 6.17 | 999 | 5.82 | 1059 |
| 212 | 0 | 0 | 0 | 0.197 | 7.54 | 818 | 7.25 | 850 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 250.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 225.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 225.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 300.00 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 325.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 350.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 375.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 225.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |
| 275.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 |
| 300.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-5 |
| 325.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 350.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 375.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 275.00 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 |
| 300.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 325.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 350.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 375.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |
| 400.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 |
| 425.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 |
| 450.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-1 |
| 475.00 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 |
| 500.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 250.00 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 275.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 300.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-6 |
| 325.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 350.00 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |
| 375.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 |
| 400.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 |
| 425.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 450.00 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 |
| 475.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 |
| 500.00 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 275.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 300.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 325.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-8 | 1-9 |
| 350.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 |
| 375.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 400.00 | 1-8 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 |
| 425.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 |
| 450.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-2 | 3-4 |
| 475.00 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 |
| 500.00 | 2-7 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 |
| 525.00 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 |
| 550.00 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 |
| 575.00 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-5 |
| 600.00 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 |
| 625.00 | 4-0 | 4-2 | 4-4 | 4-7 | 4-10 | 5-1 | 5-5 | 5-8 | 6-1 | 6-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 275.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 300.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 350.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 |
| 375.00 | 1-6 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 |
| 400.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 425.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 |
| 450.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 |
| 475.00 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 3-11 |
| 500.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-5 |
| 525.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-6 | 4-10 |
| 550.00 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 | 5-4 |
| 575.00 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-9 |
| 600.00 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-3 | 5-7 | 5-11 | 6-4 |
| 625.00 | 4-1 | 4-3 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 6-0 | 6-5 | 6-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 0.23 | 3431 | 0.22 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.07 | 3672 | 0.07 | 3695 |
| 30 | 0 | 0 | 0 | 0.197 | 0.08 | 3280 | 0.07 | 3375 |
| 40 | 0 | 0 | 0 | 0.197 | 0.08 | 3149 | 0.08 | 3265 |
| 50 | 0 | 0 | 0 | 0.197 | 0.08 | 3019 | 0.08 | 3154 |
| 60 | 0 | 0 | 0 | 0.197 | 0.09 | 2888 | 0.08 | 3041 |
| 70 | 0 | 0 | 0 | 0.197 | 0.09 | 2758 | 0.08 | 2927 |
| 80 | 0 | 0 | 0 | 0.197 | 0.09 | 2628 | 0.09 | 2811 |
| 90 | 0 | 0 | 0 | 0.197 | 0.1 | 2497 | 0.09 | 2694 |
| 100 | 0 | 0 | 0 | 0.197 | 0.1 | 2367 | 0.1 | 2576 |
| 110 | 0 | 0 | 0 | 0.197 | 0.11 | 2237 | 0.1 | 2457 |
| 120 | 0 | 0 | 0 | 0.197 | 0.12 | 2107 | 0.11 | 2336 |
| 130 | 0 | 0 | 0 | 0.197 | 0.12 | 1977 | 0.11 | 2214 |
| 167 | 0 | 0 | 0 | 0.197 | 0.16 | 1498 | 0.14 | 1753 |
| 212 | 0 | 0 | 0 | 0.197 | 0.24 | 1017 | 0.21 | 1180 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 0.91 | 3441 | 0.9 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.27 | 3618 | 0.27 | 3644 |
| 30 | 0 | 0 | 0 | 0.197 | 0.31 | 3228 | 0.3 | 3323 |
| 40 | 0 | 0 | 0 | 0.197 | 0.32 | 3098 | 0.31 | 3213 |
| 50 | 0 | 0 | 0 | 0.197 | 0.33 | 2969 | 0.32 | 3102 |
| 60 | 0 | 0 | 0 | 0.197 | 0.35 | 2839 | 0.33 | 2989 |
| 70 | 0 | 0 | 0 | 0.197 | 0.36 | 2710 | 0.34 | 2875 |
| 80 | 0 | 0 | 0 | 0.197 | 0.38 | 2580 | 0.36 | 2760 |
| 90 | 0 | 0 | 0 | 0.197 | 0.4 | 2451 | 0.37 | 2644 |
| 100 | 0 | 0 | 0 | 0.197 | 0.42 | 2323 | 0.39 | 2526 |
| 110 | 0 | 0 | 0 | 0.197 | 0.45 | 2194 | 0.41 | 2407 |
| 120 | 0 | 0 | 0 | 0.197 | 0.48 | 2066 | 0.43 | 2288 |
| 130 | 0 | 0 | 0 | 0.197 | 0.51 | 1939 | 0.45 | 2167 |
| 167 | 0 | 0 | 0 | 0.197 | 0.67 | 1476 | 0.57 | 1715 |
| 212 | 0 | 0 | 0 | 0.197 | 0.96 | 1029 | 0.84 | 1172 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 2.04 | 3455 | 2.02 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.63 | 3530 | 0.62 | 3559 |
| 30 | 0 | 0 | 0 | 0.197 | 0.71 | 3143 | 0.68 | 3238 |
| 40 | 0 | 0 | 0 | 0.197 | 0.74 | 3015 | 0.71 | 3128 |
| 50 | 0 | 0 | 0 | 0.197 | 0.77 | 2886 | 0.73 | 3017 |
| 60 | 0 | 0 | 0 | 0.197 | 0.8 | 2758 | 0.76 | 2904 |
| 70 | 0 | 0 | 0 | 0.197 | 0.84 | 2631 | 0.79 | 2791 |
| 80 | 0 | 0 | 0 | 0.197 | 0.89 | 2504 | 0.83 | 2677 |
| 90 | 0 | 0 | 0 | 0.197 | 0.93 | 2377 | 0.87 | 2561 |
| 100 | 0 | 0 | 0 | 0.197 | 0.98 | 2251 | 0.91 | 2445 |
| 110 | 0 | 0 | 0 | 0.197 | 1.04 | 2126 | 0.95 | 2328 |
| 120 | 0 | 0 | 0 | 0.197 | 1.11 | 2002 | 1 | 2210 |
| 130 | 0 | 0 | 0 | 0.197 | 1.18 | 1880 | 1.06 | 2092 |
| 167 | 0 | 0 | 0 | 0.197 | 1.54 | 1444 | 1.34 | 1657 |
| 212 | 0 | 0 | 0 | 0.197 | 2.12 | 1043 | 1.91 | 1162 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 3.61 | 3471 | 3.58 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.16 | 3409 | 1.15 | 3441 |
| 30 | 0 | 0 | 0 | 0.197 | 1.3 | 3026 | 1.26 | 3119 |
| 40 | 0 | 0 | 0 | 0.197 | 1.36 | 2900 | 1.31 | 3010 |
| 50 | 0 | 0 | 0 | 0.197 | 1.42 | 2774 | 1.36 | 2899 |
| 60 | 0 | 0 | 0 | 0.197 | 1.49 | 2649 | 1.41 | 2788 |
| 70 | 0 | 0 | 0 | 0.197 | 1.56 | 2524 | 1.47 | 2676 |
| 80 | 0 | 0 | 0 | 0.197 | 1.64 | 2400 | 1.54 | 2563 |
| 90 | 0 | 0 | 0 | 0.197 | 1.73 | 2278 | 1.61 | 2450 |
| 100 | 0 | 0 | 0 | 0.197 | 1.83 | 2157 | 1.69 | 2336 |
| 110 | 0 | 0 | 0 | 0.197 | 1.93 | 2037 | 1.77 | 2222 |
| 120 | 0 | 0 | 0 | 0.197 | 2.05 | 1919 | 1.87 | 2108 |
| 130 | 0 | 0 | 0 | 0.197 | 2.18 | 1804 | 1.98 | 1995 |
| 167 | 0 | 0 | 0 | 0.197 | 2.8 | 1406 | 2.48 | 1587 |
| 212 | 0 | 0 | 0 | 0.197 | 3.73 | 1058 | 3.42 | 1153 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 0.627 | 5.62 | 3489 | 5.6 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.89 | 3255 | 1.87 | 3290 |
| 30 | 0 | 0 | 0 | 0.197 | 2.14 | 2880 | 2.07 | 2970 |
| 40 | 0 | 0 | 0 | 0.197 | 2.23 | 2757 | 2.15 | 2862 |
| 50 | 0 | 0 | 0 | 0.197 | 2.34 | 2635 | 2.24 | 2753 |
| 60 | 0 | 0 | 0 | 0.197 | 2.45 | 2514 | 2.33 | 2643 |
| 70 | 0 | 0 | 0 | 0.197 | 2.57 | 2394 | 2.43 | 2533 |
| 80 | 0 | 0 | 0 | 0.197 | 2.71 | 2275 | 2.54 | 2423 |
| 90 | 0 | 0 | 0 | 0.197 | 2.85 | 2159 | 2.66 | 2313 |
| 100 | 0 | 0 | 0 | 0.197 | 3.01 | 2045 | 2.79 | 2204 |
| 110 | 0 | 0 | 0 | 0.197 | 3.19 | 1933 | 2.94 | 2095 |
| 120 | 0 | 0 | 0 | 0.197 | 3.37 | 1824 | 3.1 | 1988 |
| 130 | 0 | 0 | 0 | 0.197 | 3.58 | 1719 | 3.27 | 1882 |
| 167 | 0 | 0 | 0 | 0.197 | 4.5 | 1367 | 4.07 | 1512 |
| 212 | 0 | 0 | 0 | 0.197 | 5.75 | 1071 | 5.38 | 1144 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-0 | 0-0 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 200.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-0 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 200.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 225.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |
| 250.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 |
| 225.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 |
| 250.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 225.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 |
| 275.00 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 300.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 |
| 325.00 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 350.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 375.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 275.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 300.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 325.00 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 350.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 375.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 |
| 275.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 300.00 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 325.00 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 350.00 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 |
| 375.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 |
| 400.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 |
| 425.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 450.00 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 |
| 475.00 | 1-9 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 |
| 500.00 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 275.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 300.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 325.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 350.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 375.00 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 400.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 425.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 |
| 450.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 |
| 475.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 500.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 |
| 275.00 | 0-7 | 0-8 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 300.00 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 |
| 325.00 | 0-10 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 350.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 375.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 400.00 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-11 |
| 425.00 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 450.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 |
| 475.00 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 | 2-8 |
| 500.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 |
| 525.00 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 |
| 550.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 |
| 575.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-11 |
| 600.00 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 |
| 625.00 | 3-2 | 3-3 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 275.00 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 300.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 |
| 325.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 350.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 375.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 400.00 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 425.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 450.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 475.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-9 | 2-10 |
| 500.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 |
| 525.00 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 550.00 | 2-6 | 2-7 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 |
| 575.00 | 2-9 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 4-0 | 4-3 |
| 600.00 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 |
| 625.00 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 5-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 1.29 | 1000 | 1.29 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.41 | 599 | 0.4 | 621 |
| 30 | 0 | 0 | 0 | 0.197 | 0.7 | 350 | 0.67 | 369 |
| 40 | 0 | 0 | 0 | 0.197 | 0.82 | 300 | 0.78 | 314 |
| 50 | 0 | 0 | 0 | 0.197 | 0.94 | 262 | 0.9 | 273 |
| 60 | 0 | 0 | 0 | 0.197 | 1.06 | 233 | 1.02 | 241 |
| 70 | 0 | 0 | 0 | 0.197 | 1.17 | 211 | 1.13 | 217 |
| 80 | 0 | 0 | 0 | 0.197 | 1.27 | 194 | 1.24 | 198 |
| 90 | 0 | 0 | 0 | 0.197 | 1.37 | 180 | 1.34 | 184 |
| 100 | 0 | 0 | 0 | 0.197 | 1.47 | 168 | 1.42 | 173 |
| 110 | 0 | 0 | 0 | 0.197 | 1.55 | 159 | 1.51 | 164 |
| 120 | 0 | 0 | 0 | 0.197 | 1.63 | 151 | 1.59 | 155 |
| 130 | 0 | 0 | 0 | 0.197 | 1.71 | 144 | 1.66 | 148 |
| 167 | 0 | 0 | 0 | 0.197 | 1.97 | 125 | 1.93 | 128 |
| 212 | 0 | 0 | 0 | 0.197 | 2.25 | 110 | 2.21 | 112 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 5.17 | 1000 | 5.17 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 4.18 | 236 | 4.12 | 239 |
| 30 | 0 | 0 | 0 | 0.197 | 4.57 | 216 | 4.52 | 218 |
| 40 | 0 | 0 | 0 | 0.197 | 4.69 | 210 | 4.64 | 213 |
| 50 | 0 | 0 | 0 | 0.197 | 4.81 | 205 | 4.77 | 207 |
| 60 | 0 | 0 | 0 | 0.197 | 4.93 | 200 | 4.89 | 202 |
| 70 | 0 | 0 | 0 | 0.197 | 5.04 | 196 | 5.01 | 197 |
| 80 | 0 | 0 | 0 | 0.197 | 5.15 | 192 | 5.12 | 193 |
| 90 | 0 | 0 | 0 | 0.197 | 5.26 | 188 | 5.23 | 189 |
| 100 | 0 | 0 | 0 | 0.197 | 5.37 | 184 | 5.33 | 185 |
| 110 | 0 | 0 | 0 | 0.197 | 5.48 | 180 | 5.42 | 182 |
| 120 | 0 | 0 | 0 | 0.197 | 5.57 | 177 | 5.52 | 179 |
| 130 | 0 | 0 | 0 | 0.197 | 5.66 | 174 | 5.61 | 176 |
| 167 | 0 | 0 | 0 | 0.197 | 6 | 165 | 5.95 | 166 |
| 212 | 0 | 0 | 0 | 0.197 | 6.39 | 155 | 6.34 | 156 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 11.68 | 1000 | 11.68 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 10.72 | 208 | 10.67 | 209 |
| 30 | 0 | 0 | 0 | 0.197 | 11.08 | 201 | 11.04 | 202 |
| 40 | 0 | 0 | 0 | 0.197 | 11.2 | 199 | 11.16 | 200 |
| 50 | 0 | 0 | 0 | 0.197 | 11.32 | 197 | 11.28 | 198 |
| 60 | 0 | 0 | 0 | 0.197 | 11.43 | 195 | 11.4 | 196 |
| 70 | 0 | 0 | 0 | 0.197 | 11.55 | 193 | 11.51 | 194 |
| 80 | 0 | 0 | 0 | 0.197 | 11.66 | 191 | 11.63 | 192 |
| 90 | 0 | 0 | 0 | 0.197 | 11.77 | 189 | 11.74 | 190 |
| 100 | 0 | 0 | 0 | 0.197 | 11.89 | 188 | 11.84 | 188 |
| 110 | 0 | 0 | 0 | 0.197 | 11.99 | 186 | 11.94 | 187 |
| 120 | 0 | 0 | 0 | 0.197 | 12.09 | 184 | 12.04 | 185 |
| 130 | 0 | 0 | 0 | 0.197 | 12.19 | 183 | 12.14 | 184 |
| 167 | 0 | 0 | 0 | 0.197 | 12.55 | 178 | 12.5 | 179 |
| 212 | 0 | 0 | 0 | 0.197 | 12.98 | 172 | 12.93 | 173 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 20.87 | 1000 | 20.87 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 19.92 | 200 | 19.86 | 200 |
| 30 | 0 | 0 | 0 | 0.197 | 20.27 | 196 | 20.23 | 197 |
| 40 | 0 | 0 | 0 | 0.197 | 20.39 | 195 | 20.34 | 196 |
| 50 | 0 | 0 | 0 | 0.197 | 20.5 | 194 | 20.46 | 195 |
| 60 | 0 | 0 | 0 | 0.197 | 20.62 | 193 | 20.58 | 193 |
| 70 | 0 | 0 | 0 | 0.197 | 20.73 | 192 | 20.7 | 192 |
| 80 | 0 | 0 | 0 | 0.197 | 20.85 | 191 | 20.82 | 191 |
| 90 | 0 | 0 | 0 | 0.197 | 20.96 | 190 | 20.92 | 190 |
| 100 | 0 | 0 | 0 | 0.197 | 21.07 | 189 | 21.03 | 189 |
| 110 | 0 | 0 | 0 | 0.197 | 21.18 | 188 | 21.13 | 189 |
| 120 | 0 | 0 | 0 | 0.197 | 21.29 | 187 | 21.23 | 188 |
| 130 | 0 | 0 | 0 | 0.197 | 21.39 | 186 | 21.33 | 187 |
| 167 | 0 | 0 | 0 | 0.197 | 21.76 | 183 | 21.71 | 184 |
| 212 | 0 | 0 | 0 | 0.197 | 22.2 | 180 | 22.15 | 180 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 32.81 | 1000 | 32.81 | 1000* |
| 0 | 0 | 0 | 0 | 0.197 | 31.87 | 196 | 31.81 | 197 |
| 30 | 0 | 0 | 0 | 0.197 | 32.22 | 194 | 32.17 | 195 |
| 40 | 0 | 0 | 0 | 0.197 | 32.33 | 194 | 32.29 | 194 |
| 50 | 0 | 0 | 0 | 0.197 | 32.45 | 193 | 32.41 | 193 |
| 60 | 0 | 0 | 0 | 0.197 | 32.56 | 192 | 32.53 | 192 |
| 70 | 0 | 0 | 0 | 0.197 | 32.68 | 192 | 32.64 | 192 |
| 80 | 0 | 0 | 0 | 0.197 | 32.79 | 191 | 32.76 | 191 |
| 90 | 0 | 0 | 0 | 0.197 | 32.91 | 190 | 32.87 | 191 |
| 100 | 0 | 0 | 0 | 0.197 | 33.02 | 190 | 32.97 | 190 |
| 110 | 0 | 0 | 0 | 0.197 | 33.13 | 189 | 33.08 | 189 |
| 120 | 0 | 0 | 0 | 0.197 | 33.23 | 189 | 33.18 | 189 |
| 130 | 0 | 0 | 0 | 0.197 | 33.34 | 188 | 33.28 | 188 |
| 167 | 0 | 0 | 0 | 0.197 | 33.71 | 186 | 33.66 | 186 |
| 212 | 0 | 0 | 0 | 0.197 | 34.16 | 184 | 34.11 | 184 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-4 |
| 150.00 | 1-3 | 1-6 | 1-9 | 2-0 | 2-4 | 2-7 | 2-10 | 3-0 | 3-2 | 3-5 |
| 175.00 | 1-9 | 2-1 | 2-5 | 2-9 | 3-2 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 |
| 200.00 | 2-3 | 2-8 | 3-2 | 3-7 | 4-1 | 4-6 | 5-0 | 5-4 | 5-8 | 6-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 125.00 | 0-11 | 1-1 | 1-3 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-5 |
| 150.00 | 1-4 | 1-7 | 1-10 | 2-1 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-6 |
| 175.00 | 1-10 | 2-2 | 2-6 | 2-11 | 3-3 | 3-7 | 3-11 | 4-2 | 4-6 | 4-9 |
| 200.00 | 2-4 | 2-10 | 3-3 | 3-9 | 4-3 | 4-8 | 5-1 | 5-6 | 5-10 | 6-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 125.00 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-6 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 |
| 175.00 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 200.00 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 |
| 225.00 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 |
| 250.00 | 6-10 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 125.00 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 |
| 150.00 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 |
| 175.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 200.00 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 |
| 225.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-10 | 6-11 |
| 250.00 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 |
| 175.00 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 |
| 200.00 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 |
| 225.00 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 |
| 250.00 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-3 |
| 275.00 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 300.00 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 11-11 |
| 325.00 | 12-10 | 12-11 | 13-1 | 13-3 | 13-5 | 13-6 | 13-8 | 13-9 | 13-11 | 14-0 |
| 350.00 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-3 |
| 375.00 | 17-1 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 |
| 175.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 |
| 200.00 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 |
| 225.00 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 |
| 250.00 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 |
| 275.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 |
| 300.00 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-11 | 12-0 |
| 325.00 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 13-11 | 14-1 |
| 350.00 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 |
| 375.00 | 17-2 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 |
| 225.00 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 |
| 250.00 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 |
| 275.00 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 |
| 300.00 | 11-4 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-10 | 11-10 |
| 325.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-10 | 13-11 |
| 350.00 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 |
| 375.00 | 17-8 | 17-9 | 17-10 | 18-0 | 18-1 | 18-2 | 18-3 | 18-5 | 18-6 | 18-7 |
| 400.00 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-8 | 20-10 | 20-11 | 21-0 | 21-2 |
| 425.00 | 22-8 | 22-10 | 23-0 | 23-1 | 23-3 | 23-5 | 23-6 | 23-8 | 23-9 | 23-10 |
| 450.00 | 25-6 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 | 26-4 | 26-6 | 26-8 | 26-9 |
| 475.00 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 | 29-8 | 29-10 |
| 500.00 | 31-6 | 31-8 | 31-10 | 32-0 | 32-3 | 32-5 | 32-7 | 32-9 | 32-11 | 33-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 |
| 225.00 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 |
| 250.00 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 |
| 275.00 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 |
| 300.00 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 |
| 325.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 |
| 350.00 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 |
| 375.00 | 17-8 | 17-10 | 17-11 | 18-0 | 18-1 | 18-3 | 18-4 | 18-5 | 18-6 | 18-7 |
| 400.00 | 20-2 | 20-3 | 20-5 | 20-6 | 20-7 | 20-9 | 20-10 | 21-0 | 21-1 | 21-2 |
| 425.00 | 22-9 | 22-11 | 23-0 | 23-2 | 23-3 | 23-5 | 23-7 | 23-8 | 23-10 | 23-11 |
| 450.00 | 25-6 | 25-8 | 25-10 | 26-0 | 26-1 | 26-3 | 26-5 | 26-7 | 26-8 | 26-10 |
| 475.00 | 28-6 | 28-8 | 28-10 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 | 29-9 | 29-11 |
| 500.00 | 31-7 | 31-9 | 31-11 | 32-1 | 32-3 | 32-6 | 32-8 | 32-10 | 33-0 | 33-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-2 | 8-3 |
| 275.00 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 |
| 300.00 | 11-6 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 |
| 325.00 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 |
| 350.00 | 15-8 | 15-9 | 15-9 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 |
| 375.00 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-4 | 18-5 | 18-5 | 18-6 | 18-7 |
| 400.00 | 20-6 | 20-7 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 | 21-1 |
| 425.00 | 23-1 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 |
| 450.00 | 25-11 | 26-0 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 |
| 475.00 | 28-11 | 29-0 | 29-2 | 29-3 | 29-4 | 29-5 | 29-7 | 29-8 | 29-9 | 29-10 |
| 500.00 | 32-1 | 32-2 | 32-3 | 32-5 | 32-6 | 32-8 | 32-9 | 32-10 | 33-0 | 33-1 |
| 525.00 | 35-4 | 35-6 | 35-7 | 35-9 | 35-11 | 36-0 | 36-2 | 36-3 | 36-4 | 36-6 |
| 550.00 | 38-10 | 39-0 | 39-1 | 39-3 | 39-5 | 39-7 | 39-8 | 39-10 | 39-11 | 40-1 |
| 575.00 | 42-6 | 42-7 | 42-9 | 42-11 | 43-1 | 43-3 | 43-5 | 43-7 | 43-8 | 43-10 |
| 600.00 | 46-3 | 46-5 | 46-7 | 46-9 | 46-11 | 47-1 | 47-4 | 47-5 | 47-7 | 47-9 |
| 625.00 | 50-3 | 50-5 | 50-7 | 50-10 | 51-0 | 51-2 | 51-4 | 51-6 | 51-8 | 51-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 |
| 275.00 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 |
| 300.00 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 |
| 325.00 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 |
| 350.00 | 15-8 | 15-9 | 15-10 | 15-10 | 15-11 | 16-0 | 16-0 | 16-1 | 16-2 | 16-2 |
| 375.00 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 | 18-6 | 18-7 |
| 400.00 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 |
| 425.00 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 |
| 450.00 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-9 | 26-10 |
| 475.00 | 28-11 | 29-1 | 29-2 | 29-3 | 29-4 | 29-6 | 29-7 | 29-8 | 29-9 | 29-11 |
| 500.00 | 32-1 | 32-3 | 32-4 | 32-5 | 32-7 | 32-8 | 32-10 | 32-11 | 33-0 | 33-2 |
| 525.00 | 35-5 | 35-6 | 35-8 | 35-10 | 35-11 | 36-1 | 36-2 | 36-4 | 36-5 | 36-7 |
| 550.00 | 38-11 | 39-0 | 39-2 | 39-4 | 39-5 | 39-7 | 39-9 | 39-10 | 40-0 | 40-2 |
| 575.00 | 42-6 | 42-8 | 42-10 | 43-0 | 43-2 | 43-4 | 43-5 | 43-7 | 43-9 | 43-11 |
| 600.00 | 46-4 | 46-6 | 46-8 | 46-10 | 47-0 | 47-2 | 47-4 | 47-6 | 47-8 | 47-10 |
| 625.00 | 50-4 | 50-6 | 50-8 | 50-10 | 51-0 | 51-3 | 51-5 | 51-7 | 51-9 | 51-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 0.86 | 1500 | 0.86 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.17 | 1447 | 0.17 | 1448 |
| 30 | 0 | 0 | 0 | 0.197 | 0.23 | 1065 | 0.23 | 1090 |
| 40 | 0 | 0 | 0 | 0.197 | 0.26 | 941 | 0.25 | 971 |
| 50 | 0 | 0 | 0 | 0.197 | 0.3 | 820 | 0.29 | 854 |
| 60 | 0 | 0 | 0 | 0.197 | 0.35 | 704 | 0.33 | 740 |
| 70 | 0 | 0 | 0 | 0.197 | 0.41 | 595 | 0.39 | 631 |
| 80 | 0 | 0 | 0 | 0.197 | 0.5 | 497 | 0.46 | 531 |
| 90 | 0 | 0 | 0 | 0.197 | 0.6 | 414 | 0.56 | 444 |
| 100 | 0 | 0 | 0 | 0.197 | 0.71 | 348 | 0.66 | 371 |
| 110 | 0 | 0 | 0 | 0.197 | 0.83 | 298 | 0.77 | 320 |
| 120 | 0 | 0 | 0 | 0.197 | 0.94 | 261 | 0.87 | 283 |
| 130 | 0 | 0 | 0 | 0.197 | 1.04 | 236 | 0.97 | 254 |
| 167 | 0 | 0 | 0 | 0.197 | 1.39 | 177 | 1.32 | 186 |
| 212 | 0 | 0 | 0 | 0.197 | 1.75 | 141 | 1.69 | 146 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 3.44 | 1500 | 3.44 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.45 | 681 | 1.38 | 713 |
| 30 | 0 | 0 | 0 | 0.197 | 1.99 | 495 | 1.9 | 518 |
| 40 | 0 | 0 | 0 | 0.197 | 2.18 | 452 | 2.09 | 471 |
| 50 | 0 | 0 | 0 | 0.197 | 2.37 | 416 | 2.28 | 432 |
| 60 | 0 | 0 | 0 | 0.197 | 2.55 | 386 | 2.47 | 399 |
| 70 | 0 | 0 | 0 | 0.197 | 2.73 | 361 | 2.65 | 372 |
| 80 | 0 | 0 | 0 | 0.197 | 2.91 | 339 | 2.83 | 348 |
| 90 | 0 | 0 | 0 | 0.197 | 3.08 | 320 | 3.01 | 328 |
| 100 | 0 | 0 | 0 | 0.197 | 3.24 | 304 | 3.17 | 311 |
| 110 | 0 | 0 | 0 | 0.197 | 3.4 | 290 | 3.32 | 297 |
| 120 | 0 | 0 | 0 | 0.197 | 3.55 | 278 | 3.46 | 285 |
| 130 | 0 | 0 | 0 | 0.197 | 3.69 | 267 | 3.59 | 274 |
| 167 | 0 | 0 | 0 | 0.197 | 4.16 | 237 | 4.07 | 243 |
| 212 | 0 | 0 | 0 | 0.197 | 4.68 | 211 | 4.59 | 215 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 7.76 | 1500 | 7.76 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 5.69 | 390 | 5.56 | 399 |
| 30 | 0 | 0 | 0 | 0.197 | 6.29 | 353 | 6.18 | 359 |
| 40 | 0 | 0 | 0 | 0.197 | 6.48 | 343 | 6.38 | 348 |
| 50 | 0 | 0 | 0 | 0.197 | 6.67 | 333 | 6.57 | 338 |
| 60 | 0 | 0 | 0 | 0.197 | 6.85 | 324 | 6.76 | 329 |
| 70 | 0 | 0 | 0 | 0.197 | 7.03 | 316 | 6.95 | 320 |
| 80 | 0 | 0 | 0 | 0.197 | 7.21 | 308 | 7.13 | 312 |
| 90 | 0 | 0 | 0 | 0.197 | 7.38 | 301 | 7.3 | 304 |
| 100 | 0 | 0 | 0 | 0.197 | 7.55 | 294 | 7.48 | 297 |
| 110 | 0 | 0 | 0 | 0.197 | 7.72 | 288 | 7.63 | 291 |
| 120 | 0 | 0 | 0 | 0.197 | 7.88 | 282 | 7.78 | 286 |
| 130 | 0 | 0 | 0 | 0.197 | 8.02 | 277 | 7.92 | 281 |
| 167 | 0 | 0 | 0 | 0.197 | 8.54 | 260 | 8.45 | 263 |
| 212 | 0 | 0 | 0 | 0.197 | 9.14 | 243 | 9.05 | 246 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 13.83 | 1500 | 13.83 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 11.81 | 335 | 11.69 | 338 |
| 30 | 0 | 0 | 0 | 0.197 | 12.38 | 320 | 12.27 | 322 |
| 40 | 0 | 0 | 0 | 0.197 | 12.56 | 315 | 12.46 | 318 |
| 50 | 0 | 0 | 0 | 0.197 | 12.74 | 311 | 12.64 | 313 |
| 60 | 0 | 0 | 0 | 0.197 | 12.92 | 306 | 12.83 | 308 |
| 70 | 0 | 0 | 0 | 0.197 | 13.1 | 302 | 13.01 | 304 |
| 80 | 0 | 0 | 0 | 0.197 | 13.27 | 298 | 13.19 | 300 |
| 90 | 0 | 0 | 0 | 0.197 | 13.44 | 294 | 13.37 | 296 |
| 100 | 0 | 0 | 0 | 0.197 | 13.61 | 291 | 13.54 | 292 |
| 110 | 0 | 0 | 0 | 0.197 | 13.78 | 287 | 13.69 | 289 |
| 120 | 0 | 0 | 0 | 0.197 | 13.95 | 284 | 13.84 | 286 |
| 130 | 0 | 0 | 0 | 0.197 | 14.1 | 281 | 13.99 | 283 |
| 167 | 0 | 0 | 0 | 0.197 | 14.64 | 271 | 14.54 | 272 |
| 212 | 0 | 0 | 0 | 0.197 | 15.28 | 259 | 15.18 | 261 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 21.67 | 1500 | 21.67 | 1500* |
| 0 | 0 | 0 | 0 | 0.197 | 19.68 | 315 | 19.56 | 317 |
| 30 | 0 | 0 | 0 | 0.197 | 20.22 | 306 | 20.12 | 308 |
| 40 | 0 | 0 | 0 | 0.197 | 20.4 | 304 | 20.3 | 305 |
| 50 | 0 | 0 | 0 | 0.197 | 20.58 | 301 | 20.48 | 303 |
| 60 | 0 | 0 | 0 | 0.197 | 20.76 | 299 | 20.67 | 300 |
| 70 | 0 | 0 | 0 | 0.197 | 20.93 | 296 | 20.85 | 297 |
| 80 | 0 | 0 | 0 | 0.197 | 21.11 | 294 | 21.02 | 295 |
| 90 | 0 | 0 | 0 | 0.197 | 21.28 | 291 | 21.2 | 292 |
| 100 | 0 | 0 | 0 | 0.197 | 21.45 | 289 | 21.37 | 290 |
| 110 | 0 | 0 | 0 | 0.197 | 21.62 | 287 | 21.53 | 288 |
| 120 | 0 | 0 | 0 | 0.197 | 21.79 | 285 | 21.68 | 286 |
| 130 | 0 | 0 | 0 | 0.197 | 21.94 | 283 | 21.83 | 284 |
| 167 | 0 | 0 | 0 | 0.197 | 22.49 | 276 | 22.39 | 277 |
| 212 | 0 | 0 | 0 | 0.197 | 23.15 | 268 | 23.05 | 269 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 1-0 | 1-2 |
| 150.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 |
| 175.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-5 | 1-8 | 2-0 | 2-4 |
| 200.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-3 | 2-8 | 3-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 |
| 175.00 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-10 | 2-2 | 2-6 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-5 | 1-8 | 2-0 | 2-5 | 2-10 | 3-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-6 |
| 200.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 225.00 | 2-2 | 2-5 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-10 | 4-0 | 4-2 |
| 250.00 | 2-8 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-5 | 4-8 | 5-0 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 150.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 |
| 175.00 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 |
| 200.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 |
| 225.00 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 |
| 250.00 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 | 5-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 |
| 175.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 |
| 200.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 225.00 | 3-4 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 250.00 | 4-2 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-4 |
| 275.00 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 |
| 300.00 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 |
| 325.00 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 |
| 350.00 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 |
| 375.00 | 9-4 | 9-8 | 10-0 | 10-3 | 10-7 | 10-10 | 11-2 | 11-5 | 11-8 | 11-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 |
| 175.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 |
| 200.00 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 225.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 |
| 250.00 | 4-3 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 |
| 275.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 |
| 300.00 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 |
| 325.00 | 7-2 | 7-5 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-10 | 9-1 |
| 350.00 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 |
| 375.00 | 9-6 | 9-10 | 10-2 | 10-5 | 10-9 | 11-0 | 11-3 | 11-6 | 11-10 | 12-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 |
| 225.00 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 |
| 250.00 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 |
| 275.00 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 300.00 | 6-9 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 325.00 | 8-0 | 8-1 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 |
| 350.00 | 9-3 | 9-5 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 |
| 375.00 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-0 |
| 400.00 | 12-1 | 12-3 | 12-5 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 |
| 425.00 | 13-8 | 13-10 | 14-1 | 14-3 | 14-6 | 14-8 | 14-11 | 15-1 | 15-3 | 15-5 |
| 450.00 | 15-4 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-8 | 16-11 | 17-2 | 17-4 |
| 475.00 | 17-0 | 17-4 | 17-7 | 17-10 | 18-1 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 |
| 500.00 | 18-11 | 19-2 | 19-6 | 19-9 | 20-1 | 20-4 | 20-7 | 20-11 | 21-2 | 21-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 |
| 225.00 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 |
| 250.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 275.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 300.00 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-9 |
| 325.00 | 8-1 | 8-2 | 8-3 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 |
| 350.00 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-7 |
| 375.00 | 10-9 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-1 |
| 400.00 | 12-2 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 |
| 425.00 | 13-9 | 14-0 | 14-2 | 14-5 | 14-7 | 14-9 | 15-0 | 15-2 | 15-4 | 15-7 |
| 450.00 | 15-5 | 15-8 | 15-11 | 16-2 | 16-4 | 16-7 | 16-10 | 17-0 | 17-3 | 17-5 |
| 475.00 | 17-2 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 19-0 | 19-2 | 19-5 |
| 500.00 | 19-1 | 19-4 | 19-8 | 19-11 | 20-2 | 20-6 | 20-9 | 21-0 | 21-3 | 21-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 275.00 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 |
| 300.00 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 |
| 325.00 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 | 9-1 |
| 350.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 | 10-6 |
| 375.00 | 11-2 | 11-4 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 400.00 | 12-9 | 12-10 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 |
| 425.00 | 14-5 | 14-6 | 14-8 | 14-9 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 |
| 450.00 | 16-2 | 16-3 | 16-5 | 16-7 | 16-9 | 16-11 | 17-0 | 17-2 | 17-4 | 17-5 |
| 475.00 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-3 | 19-5 |
| 500.00 | 19-11 | 20-1 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 |
| 525.00 | 22-0 | 22-2 | 22-5 | 22-7 | 22-9 | 23-0 | 23-2 | 23-5 | 23-7 | 23-9 |
| 550.00 | 24-2 | 24-4 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-8 | 25-10 | 26-1 |
| 575.00 | 26-5 | 26-8 | 26-10 | 27-1 | 27-4 | 27-7 | 27-10 | 28-1 | 28-3 | 28-6 |
| 600.00 | 28-9 | 29-0 | 29-3 | 29-6 | 29-9 | 30-1 | 30-4 | 30-7 | 30-10 | 31-0 |
| 625.00 | 31-2 | 31-6 | 31-9 | 32-1 | 32-4 | 32-7 | 32-11 | 33-2 | 33-5 | 33-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 |
| 275.00 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 |
| 300.00 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 |
| 325.00 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-1 |
| 350.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 375.00 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 |
| 400.00 | 12-10 | 12-11 | 13-1 | 13-2 | 13-3 | 13-5 | 13-6 | 13-7 | 13-9 | 13-10 |
| 425.00 | 14-6 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-3 | 15-4 | 15-6 | 15-7 |
| 450.00 | 16-3 | 16-4 | 16-6 | 16-8 | 16-10 | 16-11 | 17-1 | 17-3 | 17-4 | 17-6 |
| 475.00 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-1 | 19-2 | 19-4 | 19-6 |
| 500.00 | 20-1 | 20-3 | 20-5 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 |
| 525.00 | 22-1 | 22-4 | 22-6 | 22-8 | 22-11 | 23-1 | 23-3 | 23-6 | 23-8 | 23-10 |
| 550.00 | 24-3 | 24-6 | 24-8 | 24-11 | 25-2 | 25-4 | 25-7 | 25-9 | 26-0 | 26-2 |
| 575.00 | 26-6 | 26-9 | 27-0 | 27-3 | 27-6 | 27-8 | 27-11 | 28-2 | 28-5 | 28-7 |
| 600.00 | 28-11 | 29-2 | 29-5 | 29-8 | 29-11 | 30-2 | 30-5 | 30-8 | 30-11 | 31-2 |
| 625.00 | 31-4 | 31-8 | 31-11 | 32-2 | 32-6 | 32-9 | 33-0 | 33-3 | 33-7 | 33-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 0.65 | 2000 | 0.65 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.12 | 2073 | 0.12 | 2073 |
| 30 | 0 | 0 | 0 | 0.197 | 0.15 | 1694 | 0.14 | 1716 |
| 40 | 0 | 0 | 0 | 0.197 | 0.16 | 1565 | 0.15 | 1595 |
| 50 | 0 | 0 | 0 | 0.197 | 0.17 | 1436 | 0.17 | 1474 |
| 60 | 0 | 0 | 0 | 0.197 | 0.19 | 1308 | 0.18 | 1352 |
| 70 | 0 | 0 | 0 | 0.197 | 0.21 | 1181 | 0.2 | 1230 |
| 80 | 0 | 0 | 0 | 0.197 | 0.23 | 1055 | 0.22 | 1108 |
| 90 | 0 | 0 | 0 | 0.197 | 0.26 | 931 | 0.25 | 987 |
| 100 | 0 | 0 | 0 | 0.197 | 0.3 | 811 | 0.28 | 868 |
| 110 | 0 | 0 | 0 | 0.197 | 0.35 | 695 | 0.33 | 751 |
| 120 | 0 | 0 | 0 | 0.197 | 0.42 | 586 | 0.38 | 640 |
| 130 | 0 | 0 | 0 | 0.197 | 0.5 | 490 | 0.46 | 538 |
| 167 | 0 | 0 | 0 | 0.197 | 0.86 | 285 | 0.77 | 319 |
| 212 | 0 | 0 | 0 | 0.197 | 1.31 | 188 | 1.22 | 203 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 2.58 | 2000 | 2.58 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.63 | 1568 | 0.62 | 1593 |
| 30 | 0 | 0 | 0 | 0.197 | 0.82 | 1206 | 0.79 | 1251 |
| 40 | 0 | 0 | 0 | 0.197 | 0.9 | 1091 | 0.86 | 1140 |
| 50 | 0 | 0 | 0 | 0.197 | 1 | 982 | 0.95 | 1033 |
| 60 | 0 | 0 | 0 | 0.197 | 1.12 | 879 | 1.06 | 930 |
| 70 | 0 | 0 | 0 | 0.197 | 1.26 | 784 | 1.18 | 833 |
| 80 | 0 | 0 | 0 | 0.197 | 1.41 | 698 | 1.32 | 744 |
| 90 | 0 | 0 | 0 | 0.197 | 1.58 | 623 | 1.48 | 664 |
| 100 | 0 | 0 | 0 | 0.197 | 1.76 | 560 | 1.66 | 595 |
| 110 | 0 | 0 | 0 | 0.197 | 1.95 | 506 | 1.84 | 535 |
| 120 | 0 | 0 | 0 | 0.197 | 2.14 | 461 | 2.03 | 485 |
| 130 | 0 | 0 | 0 | 0.197 | 2.33 | 424 | 2.2 | 448 |
| 167 | 0 | 0 | 0 | 0.197 | 2.92 | 338 | 2.79 | 354 |
| 212 | 0 | 0 | 0 | 0.197 | 3.57 | 276 | 3.45 | 286 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 5.81 | 2000 | 5.81 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 2.47 | 899 | 2.35 | 943 |
| 30 | 0 | 0 | 0 | 0.197 | 3.17 | 700 | 3.01 | 736 |
| 40 | 0 | 0 | 0 | 0.197 | 3.41 | 650 | 3.25 | 681 |
| 50 | 0 | 0 | 0 | 0.197 | 3.66 | 605 | 3.5 | 633 |
| 60 | 0 | 0 | 0 | 0.197 | 3.91 | 567 | 3.75 | 591 |
| 70 | 0 | 0 | 0 | 0.197 | 4.16 | 534 | 4 | 555 |
| 80 | 0 | 0 | 0 | 0.197 | 4.4 | 504 | 4.24 | 523 |
| 90 | 0 | 0 | 0 | 0.197 | 4.63 | 479 | 4.49 | 494 |
| 100 | 0 | 0 | 0 | 0.197 | 4.87 | 456 | 4.72 | 470 |
| 110 | 0 | 0 | 0 | 0.197 | 5.09 | 436 | 4.96 | 448 |
| 120 | 0 | 0 | 0 | 0.197 | 5.31 | 418 | 5.17 | 429 |
| 130 | 0 | 0 | 0 | 0.197 | 5.52 | 402 | 5.37 | 413 |
| 167 | 0 | 0 | 0 | 0.197 | 6.2 | 358 | 6.05 | 367 |
| 212 | 0 | 0 | 0 | 0.197 | 6.96 | 319 | 6.82 | 326 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 10.35 | 2000 | 10.35 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 6.8 | 580 | 6.59 | 598 |
| 30 | 0 | 0 | 0 | 0.197 | 7.63 | 517 | 7.43 | 531 |
| 40 | 0 | 0 | 0 | 0.197 | 7.89 | 500 | 7.7 | 512 |
| 50 | 0 | 0 | 0 | 0.197 | 8.15 | 484 | 7.97 | 495 |
| 60 | 0 | 0 | 0 | 0.197 | 8.4 | 470 | 8.23 | 480 |
| 70 | 0 | 0 | 0 | 0.197 | 8.65 | 456 | 8.48 | 465 |
| 80 | 0 | 0 | 0 | 0.197 | 8.9 | 444 | 8.73 | 452 |
| 90 | 0 | 0 | 0 | 0.197 | 9.14 | 432 | 8.98 | 440 |
| 100 | 0 | 0 | 0 | 0.197 | 9.37 | 421 | 9.22 | 428 |
| 110 | 0 | 0 | 0 | 0.197 | 9.6 | 411 | 9.46 | 417 |
| 120 | 0 | 0 | 0 | 0.197 | 9.83 | 402 | 9.68 | 408 |
| 130 | 0 | 0 | 0 | 0.197 | 10.04 | 393 | 9.88 | 400 |
| 167 | 0 | 0 | 0 | 0.197 | 10.76 | 367 | 10.6 | 373 |
| 212 | 0 | 0 | 0 | 0.197 | 11.58 | 341 | 11.43 | 346 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 16.2 | 2000 | 16.2 | 2000* |
| 0 | 0 | 0 | 0 | 0.197 | 12.72 | 485 | 12.5 | 494 |
| 30 | 0 | 0 | 0 | 0.197 | 13.5 | 457 | 13.31 | 464 |
| 40 | 0 | 0 | 0 | 0.197 | 13.76 | 449 | 13.57 | 455 |
| 50 | 0 | 0 | 0 | 0.197 | 14.01 | 441 | 13.82 | 447 |
| 60 | 0 | 0 | 0 | 0.197 | 14.25 | 433 | 14.08 | 439 |
| 70 | 0 | 0 | 0 | 0.197 | 14.5 | 426 | 14.33 | 431 |
| 80 | 0 | 0 | 0 | 0.197 | 14.74 | 419 | 14.57 | 424 |
| 90 | 0 | 0 | 0 | 0.197 | 14.97 | 413 | 14.82 | 417 |
| 100 | 0 | 0 | 0 | 0.197 | 15.21 | 406 | 15.06 | 410 |
| 110 | 0 | 0 | 0 | 0.197 | 15.44 | 400 | 15.3 | 404 |
| 120 | 0 | 0 | 0 | 0.197 | 15.67 | 395 | 15.51 | 398 |
| 130 | 0 | 0 | 0 | 0.197 | 15.88 | 389 | 15.72 | 393 |
| 167 | 0 | 0 | 0 | 0.197 | 16.62 | 372 | 16.46 | 376 |
| 212 | 0 | 0 | 0 | 0.197 | 17.48 | 354 | 17.32 | 357 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 100.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 125.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 150.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 |
| 175.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 200.00 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 175.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 |
| 200.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 |
| 225.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-1 | 2-4 |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 125.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 150.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-0 | 1-1 |
| 175.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 200.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 |
| 225.00 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-6 |
| 250.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-6 | 2-9 | 3-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.214

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 |
| 250.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 |
| 275.00 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 |
| 300.00 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 |
| 325.00 | 3-3 | 3-6 | 3-10 | 4-1 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 |
| 350.00 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 |
| 375.00 | 4-4 | 4-9 | 5-1 | 5-6 | 5-10 | 6-3 | 6-8 | 7-0 | 7-5 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 |
| 225.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 250.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 |
| 275.00 | 2-5 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 |
| 300.00 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 |
| 325.00 | 3-5 | 3-9 | 4-0 | 4-4 | 4-7 | 4-11 | 5-2 | 5-5 | 5-9 | 6-0 |
| 350.00 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-7 | 6-11 |
| 375.00 | 4-7 | 4-11 | 5-4 | 5-9 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.215

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 |
| 225.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 250.00 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 275.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 |
| 300.00 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 |
| 325.00 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 |
| 350.00 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 |
| 375.00 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-5 | 7-8 | 7-11 | 8-1 | 8-4 |
| 400.00 | 7-2 | 7-5 | 7-8 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 |
| 425.00 | 8-1 | 8-5 | 8-8 | 9-0 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-8 |
| 450.00 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-9 | 11-1 | 11-4 | 11-8 | 12-0 |
| 475.00 | 10-1 | 10-6 | 10-10 | 11-3 | 11-7 | 12-0 | 12-4 | 12-8 | 13-0 | 13-4 |
| 500.00 | 11-2 | 11-7 | 12-0 | 12-5 | 12-10 | 13-3 | 13-8 | 14-0 | 14-5 | 14-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 |
| 225.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 |
| 250.00 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 275.00 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 |
| 300.00 | 4-2 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 |
| 325.00 | 4-10 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 | 5-10 | 6-0 | 6-2 | 6-4 |
| 350.00 | 5-8 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 |
| 375.00 | 6-6 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 |
| 400.00 | 7-4 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 |
| 425.00 | 8-4 | 8-7 | 8-11 | 9-2 | 9-6 | 9-9 | 10-1 | 10-4 | 10-7 | 10-10 |
| 450.00 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 10-11 | 11-3 | 11-7 | 11-10 | 12-2 |
| 475.00 | 10-5 | 10-9 | 11-2 | 11-6 | 11-10 | 12-2 | 12-7 | 12-11 | 13-3 | 13-7 |
| 500.00 | 11-6 | 11-11 | 12-4 | 12-9 | 13-2 | 13-6 | 13-11 | 14-3 | 14-8 | 15-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 |
| 300.00 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 325.00 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 350.00 | 6-5 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 |
| 375.00 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-1 | 8-2 | 8-4 | 8-6 | 8-7 |
| 400.00 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-9 |
| 425.00 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 |
| 450.00 | 10-7 | 10-9 | 11-0 | 11-2 | 11-5 | 11-7 | 11-10 | 12-0 | 12-2 | 12-5 |
| 475.00 | 11-9 | 12-0 | 12-3 | 12-6 | 12-8 | 12-11 | 13-2 | 13-4 | 13-7 | 13-10 |
| 500.00 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-7 | 14-10 | 15-1 | 15-4 |
| 525.00 | 14-5 | 14-8 | 14-11 | 15-3 | 15-6 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 |
| 550.00 | 15-9 | 16-1 | 16-5 | 16-9 | 17-0 | 17-4 | 17-8 | 17-11 | 18-3 | 18-6 |
| 575.00 | 17-3 | 17-7 | 17-11 | 18-3 | 18-7 | 18-11 | 19-3 | 19-7 | 19-11 | 20-3 |
| 600.00 | 18-9 | 19-2 | 19-7 | 19-11 | 20-3 | 20-8 | 21-0 | 21-4 | 21-8 | 22-0 |
| 625.00 | 20-5 | 20-10 | 21-3 | 21-7 | 22-0 | 22-5 | 22-9 | 23-2 | 23-7 | 23-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 |
| 275.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 |
| 300.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 |
| 325.00 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 |
| 350.00 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 |
| 375.00 | 7-5 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 | 8-8 |
| 400.00 | 8-6 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 |
| 425.00 | 9-7 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 |
| 450.00 | 10-9 | 10-11 | 11-2 | 11-4 | 11-7 | 11-9 | 11-11 | 12-2 | 12-4 | 12-6 |
| 475.00 | 11-11 | 12-2 | 12-5 | 12-8 | 12-10 | 13-1 | 13-4 | 13-6 | 13-9 | 13-11 |
| 500.00 | 13-3 | 13-6 | 13-9 | 14-0 | 14-3 | 14-6 | 14-9 | 15-0 | 15-2 | 15-5 |
| 525.00 | 14-7 | 14-11 | 15-2 | 15-5 | 15-9 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 |
| 550.00 | 16-0 | 16-4 | 16-8 | 16-11 | 17-3 | 17-7 | 17-10 | 18-1 | 18-5 | 18-8 |
| 575.00 | 17-6 | 17-10 | 18-2 | 18-6 | 18-10 | 19-2 | 19-6 | 19-10 | 20-1 | 20-5 |
| 600.00 | 19-1 | 19-5 | 19-10 | 20-2 | 20-6 | 20-11 | 21-3 | 21-7 | 21-11 | 22-3 |
| 625.00 | 20-8 | 21-1 | 21-6 | 21-11 | 22-3 | 22-8 | 23-0 | 23-5 | 23-9 | 24-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 0.52 | 2471 | 0.52 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.09 | 2616 | 0.09 | 2627 |
| 30 | 0 | 0 | 0 | 0.197 | 0.11 | 2225 | 0.11 | 2279 |
| 40 | 0 | 0 | 0 | 0.197 | 0.12 | 2095 | 0.11 | 2161 |
| 50 | 0 | 0 | 0 | 0.197 | 0.13 | 1965 | 0.12 | 2041 |
| 60 | 0 | 0 | 0 | 0.197 | 0.13 | 1835 | 0.13 | 1921 |
| 70 | 0 | 0 | 0 | 0.197 | 0.14 | 1706 | 0.14 | 1799 |
| 80 | 0 | 0 | 0 | 0.197 | 0.16 | 1577 | 0.15 | 1677 |
| 90 | 0 | 0 | 0 | 0.197 | 0.17 | 1448 | 0.16 | 1554 |
| 100 | 0 | 0 | 0 | 0.197 | 0.19 | 1320 | 0.17 | 1430 |
| 110 | 0 | 0 | 0 | 0.197 | 0.21 | 1192 | 0.19 | 1306 |
| 120 | 0 | 0 | 0 | 0.197 | 0.23 | 1066 | 0.21 | 1182 |
| 130 | 0 | 0 | 0 | 0.197 | 0.26 | 942 | 0.23 | 1059 |
| 167 | 0 | 0 | 0 | 0.197 | 0.44 | 557 | 0.38 | 650 |
| 212 | 0 | 0 | 0 | 0.197 | 0.85 | 290 | 0.71 | 346 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 2.07 | 2500 | 2.07 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.43 | 2310 | 0.42 | 2320 |
| 30 | 0 | 0 | 0 | 0.197 | 0.51 | 1926 | 0.5 | 1972 |
| 40 | 0 | 0 | 0 | 0.197 | 0.55 | 1800 | 0.53 | 1854 |
| 50 | 0 | 0 | 0 | 0.197 | 0.59 | 1674 | 0.57 | 1736 |
| 60 | 0 | 0 | 0 | 0.197 | 0.64 | 1550 | 0.61 | 1619 |
| 70 | 0 | 0 | 0 | 0.197 | 0.69 | 1427 | 0.66 | 1501 |
| 80 | 0 | 0 | 0 | 0.197 | 0.75 | 1307 | 0.71 | 1384 |
| 90 | 0 | 0 | 0 | 0.197 | 0.83 | 1189 | 0.78 | 1269 |
| 100 | 0 | 0 | 0 | 0.197 | 0.92 | 1075 | 0.85 | 1155 |
| 110 | 0 | 0 | 0 | 0.197 | 1.02 | 966 | 0.94 | 1045 |
| 120 | 0 | 0 | 0 | 0.197 | 1.14 | 864 | 1.05 | 940 |
| 130 | 0 | 0 | 0 | 0.197 | 1.28 | 771 | 1.17 | 841 |
| 167 | 0 | 0 | 0 | 0.197 | 1.86 | 531 | 1.71 | 575 |
| 212 | 0 | 0 | 0 | 0.197 | 2.6 | 379 | 2.43 | 405 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 4.65 | 2500 | 4.65 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.25 | 1775 | 1.22 | 1824 |
| 30 | 0 | 0 | 0 | 0.197 | 1.55 | 1426 | 1.48 | 1494 |
| 40 | 0 | 0 | 0 | 0.197 | 1.68 | 1315 | 1.6 | 1387 |
| 50 | 0 | 0 | 0 | 0.197 | 1.83 | 1210 | 1.73 | 1283 |
| 60 | 0 | 0 | 0 | 0.197 | 2 | 1110 | 1.87 | 1183 |
| 70 | 0 | 0 | 0 | 0.197 | 2.18 | 1017 | 2.04 | 1088 |
| 80 | 0 | 0 | 0 | 0.197 | 2.38 | 931 | 2.22 | 998 |
| 90 | 0 | 0 | 0 | 0.197 | 2.6 | 854 | 2.42 | 915 |
| 100 | 0 | 0 | 0 | 0.197 | 2.83 | 784 | 2.64 | 840 |
| 110 | 0 | 0 | 0 | 0.197 | 3.07 | 723 | 2.87 | 772 |
| 120 | 0 | 0 | 0 | 0.197 | 3.31 | 669 | 3.11 | 712 |
| 130 | 0 | 0 | 0 | 0.197 | 3.56 | 623 | 3.36 | 660 |
| 167 | 0 | 0 | 0 | 0.197 | 4.38 | 506 | 4.19 | 530 |
| 212 | 0 | 0 | 0 | 0.197 | 5.3 | 419 | 5.1 | 435 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 8.27 | 2500 | 8.27 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 3.34 | 1179 | 3.17 | 1242 |
| 30 | 0 | 0 | 0 | 0.197 | 4.14 | 952 | 3.91 | 1008 |
| 40 | 0 | 0 | 0 | 0.197 | 4.43 | 890 | 4.18 | 942 |
| 50 | 0 | 0 | 0 | 0.197 | 4.73 | 834 | 4.47 | 882 |
| 60 | 0 | 0 | 0 | 0.197 | 5.03 | 784 | 4.76 | 828 |
| 70 | 0 | 0 | 0 | 0.197 | 5.33 | 740 | 5.06 | 779 |
| 80 | 0 | 0 | 0 | 0.197 | 5.63 | 700 | 5.36 | 735 |
| 90 | 0 | 0 | 0 | 0.197 | 5.93 | 665 | 5.67 | 696 |
| 100 | 0 | 0 | 0 | 0.197 | 6.22 | 634 | 5.97 | 661 |
| 110 | 0 | 0 | 0 | 0.197 | 6.51 | 605 | 6.26 | 630 |
| 120 | 0 | 0 | 0 | 0.197 | 6.8 | 580 | 6.56 | 601 |
| 130 | 0 | 0 | 0 | 0.197 | 7.08 | 557 | 6.85 | 576 |
| 167 | 0 | 0 | 0 | 0.197 | 7.98 | 495 | 7.76 | 509 |
| 212 | 0 | 0 | 0 | 0.197 | 8.99 | 439 | 8.78 | 450 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 12.94 | 2500 | 12.94 | 2500* |
| 0 | 0 | 0 | 0 | 0.197 | 7.56 | 815 | 7.24 | 851 |
| 30 | 0 | 0 | 0 | 0.197 | 8.6 | 717 | 8.27 | 745 |
| 40 | 0 | 0 | 0 | 0.197 | 8.93 | 690 | 8.61 | 716 |
| 50 | 0 | 0 | 0 | 0.197 | 9.26 | 666 | 8.95 | 689 |
| 60 | 0 | 0 | 0 | 0.197 | 9.59 | 643 | 9.28 | 664 |
| 70 | 0 | 0 | 0 | 0.197 | 9.91 | 622 | 9.61 | 642 |
| 80 | 0 | 0 | 0 | 0.197 | 10.22 | 603 | 9.93 | 621 |
| 90 | 0 | 0 | 0 | 0.197 | 10.53 | 586 | 10.25 | 602 |
| 100 | 0 | 0 | 0 | 0.197 | 10.83 | 569 | 10.56 | 584 |
| 110 | 0 | 0 | 0 | 0.197 | 11.13 | 554 | 10.87 | 568 |
| 120 | 0 | 0 | 0 | 0.197 | 11.42 | 540 | 11.17 | 552 |
| 130 | 0 | 0 | 0 | 0.197 | 11.7 | 527 | 11.47 | 538 |
| 167 | 0 | 0 | 0 | 0.197 | 12.63 | 489 | 12.4 | 498 |
| 212 | 0 | 0 | 0 | 0.197 | 13.69 | 451 | 13.47 | 458 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 125.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 150.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 175.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 200.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 225.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 |
| 250.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 200.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 225.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 250.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 |
| 275.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 |
| 300.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 |
| 325.00 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 |
| 350.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-4 | 3-7 | 3-11 |
| 375.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-1 | 4-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 175.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 200.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 225.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 250.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 |
| 275.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 |
| 300.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 |
| 325.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 |
| 350.00 | 2-0 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 |
| 375.00 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 225.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 250.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 |
| 275.00 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 |
| 300.00 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 325.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 |
| 350.00 | 2-10 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-1 | 4-4 | 4-7 | 4-10 |
| 375.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 | 5-3 | 5-6 |
| 400.00 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 6-0 | 6-3 |
| 425.00 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 |
| 450.00 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-5 | 6-9 | 7-2 | 7-7 | 7-11 |
| 475.00 | 5-2 | 5-6 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 |
| 500.00 | 5-8 | 6-1 | 6-6 | 7-0 | 7-5 | 7-11 | 8-5 | 8-10 | 9-4 | 9-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 225.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 |
| 250.00 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 275.00 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 |
| 300.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 325.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-4 |
| 350.00 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 5-0 |
| 375.00 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-3 | 5-6 | 5-9 |
| 400.00 | 3-10 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-6 |
| 425.00 | 4-4 | 4-8 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 |
| 450.00 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 | 6-9 | 7-2 | 7-6 | 7-11 | 8-3 |
| 475.00 | 5-5 | 5-10 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 | 9-2 |
| 500.00 | 6-0 | 6-6 | 6-11 | 7-5 | 7-10 | 8-4 | 8-10 | 9-3 | 9-9 | 10-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 275.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 300.00 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 |
| 325.00 | 3-4 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-6 | 4-7 |
| 350.00 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 |
| 375.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 400.00 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 |
| 425.00 | 5-9 | 6-0 | 6-3 | 6-6 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 |
| 450.00 | 6-5 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-4 | 8-7 | 8-10 |
| 475.00 | 7-2 | 7-6 | 7-9 | 8-1 | 8-4 | 8-8 | 9-0 | 9-3 | 9-6 | 9-10 |
| 500.00 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 | 9-11 | 10-3 | 10-7 | 10-10 |
| 525.00 | 8-9 | 9-1 | 9-6 | 9-10 | 10-3 | 10-7 | 10-11 | 11-4 | 11-8 | 12-0 |
| 550.00 | 9-7 | 10-0 | 10-5 | 10-10 | 11-3 | 11-8 | 12-0 | 12-5 | 12-9 | 13-2 |
| 575.00 | 10-6 | 10-11 | 11-5 | 11-10 | 12-3 | 12-8 | 13-2 | 13-7 | 14-0 | 14-4 |
| 600.00 | 11-5 | 11-11 | 12-5 | 12-11 | 13-4 | 13-10 | 14-4 | 14-9 | 15-2 | 15-8 |
| 625.00 | 12-5 | 12-11 | 13-6 | 14-0 | 14-6 | 15-0 | 15-6 | 16-0 | 16-6 | 17-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 275.00 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 300.00 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 |
| 325.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 |
| 350.00 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 |
| 375.00 | 4-8 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 |
| 400.00 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 |
| 425.00 | 6-0 | 6-3 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-7 | 7-10 | 8-0 |
| 450.00 | 6-8 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 |
| 475.00 | 7-5 | 7-9 | 8-1 | 8-4 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-1 |
| 500.00 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 | 9-11 | 10-3 | 10-6 | 10-10 | 11-2 |
| 525.00 | 9-1 | 9-6 | 9-10 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 |
| 550.00 | 10-0 | 10-5 | 10-10 | 11-2 | 11-7 | 12-0 | 12-4 | 12-9 | 13-1 | 13-6 |
| 575.00 | 10-11 | 11-4 | 11-10 | 12-3 | 12-8 | 13-1 | 13-6 | 13-11 | 14-4 | 14-9 |
| 600.00 | 11-11 | 12-5 | 12-10 | 13-4 | 13-10 | 14-3 | 14-9 | 15-2 | 15-7 | 16-0 |
| 625.00 | 12-11 | 13-5 | 13-11 | 14-6 | 15-0 | 15-6 | 16-0 | 16-5 | 16-11 | 17-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 0.44 | 2943 | 0.43 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.08 | 3122 | 0.08 | 3152 |
| 30 | 0 | 0 | 0 | 0.197 | 0.09 | 2731 | 0.09 | 2816 |
| 40 | 0 | 0 | 0 | 0.197 | 0.09 | 2600 | 0.09 | 2702 |
| 50 | 0 | 0 | 0 | 0.197 | 0.1 | 2470 | 0.1 | 2586 |
| 60 | 0 | 0 | 0 | 0.197 | 0.11 | 2340 | 0.1 | 2468 |
| 70 | 0 | 0 | 0 | 0.197 | 0.11 | 2210 | 0.1 | 2350 |
| 80 | 0 | 0 | 0 | 0.197 | 0.12 | 2080 | 0.11 | 2230 |
| 90 | 0 | 0 | 0 | 0.197 | 0.13 | 1950 | 0.12 | 2109 |
| 100 | 0 | 0 | 0 | 0.197 | 0.14 | 1820 | 0.12 | 1987 |
| 110 | 0 | 0 | 0 | 0.197 | 0.15 | 1691 | 0.13 | 1864 |
| 120 | 0 | 0 | 0 | 0.197 | 0.16 | 1561 | 0.14 | 1740 |
| 130 | 0 | 0 | 0 | 0.197 | 0.17 | 1433 | 0.15 | 1615 |
| 167 | 0 | 0 | 0 | 0.197 | 0.25 | 981 | 0.21 | 1151 |
| 212 | 0 | 0 | 0 | 0.197 | 0.44 | 559 | 0.36 | 687 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 1.73 | 2976 | 1.72 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.34 | 2917 | 0.33 | 2944 |
| 30 | 0 | 0 | 0 | 0.197 | 0.39 | 2529 | 0.38 | 2605 |
| 40 | 0 | 0 | 0 | 0.197 | 0.41 | 2400 | 0.4 | 2490 |
| 50 | 0 | 0 | 0 | 0.197 | 0.43 | 2272 | 0.41 | 2374 |
| 60 | 0 | 0 | 0 | 0.197 | 0.46 | 2144 | 0.44 | 2256 |
| 70 | 0 | 0 | 0 | 0.197 | 0.49 | 2016 | 0.46 | 2138 |
| 80 | 0 | 0 | 0 | 0.197 | 0.52 | 1889 | 0.49 | 2019 |
| 90 | 0 | 0 | 0 | 0.197 | 0.56 | 1762 | 0.52 | 1900 |
| 100 | 0 | 0 | 0 | 0.197 | 0.6 | 1637 | 0.55 | 1780 |
| 110 | 0 | 0 | 0 | 0.197 | 0.65 | 1513 | 0.59 | 1659 |
| 120 | 0 | 0 | 0 | 0.197 | 0.71 | 1391 | 0.64 | 1539 |
| 130 | 0 | 0 | 0 | 0.197 | 0.77 | 1271 | 0.69 | 1420 |
| 167 | 0 | 0 | 0 | 0.197 | 1.12 | 879 | 0.99 | 997 |
| 212 | 0 | 0 | 0 | 0.197 | 1.72 | 572 | 1.52 | 649 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 3.87 | 3000 | 3.87 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 0.87 | 2561 | 0.85 | 2598 |
| 30 | 0 | 0 | 0 | 0.197 | 1.02 | 2182 | 0.98 | 2258 |
| 40 | 0 | 0 | 0 | 0.197 | 1.08 | 2058 | 1.03 | 2144 |
| 50 | 0 | 0 | 0 | 0.197 | 1.15 | 1935 | 1.09 | 2030 |
| 60 | 0 | 0 | 0 | 0.197 | 1.22 | 1813 | 1.16 | 1915 |
| 70 | 0 | 0 | 0 | 0.197 | 1.31 | 1693 | 1.23 | 1801 |
| 80 | 0 | 0 | 0 | 0.197 | 1.41 | 1575 | 1.31 | 1687 |
| 90 | 0 | 0 | 0 | 0.197 | 1.52 | 1460 | 1.41 | 1574 |
| 100 | 0 | 0 | 0 | 0.197 | 1.64 | 1349 | 1.51 | 1464 |
| 110 | 0 | 0 | 0 | 0.197 | 1.78 | 1242 | 1.64 | 1355 |
| 120 | 0 | 0 | 0 | 0.197 | 1.94 | 1141 | 1.77 | 1250 |
| 130 | 0 | 0 | 0 | 0.197 | 2.12 | 1045 | 1.93 | 1150 |
| 167 | 0 | 0 | 0 | 0.197 | 2.86 | 776 | 2.66 | 832 |
| 212 | 0 | 0 | 0 | 0.197 | 3.82 | 580 | 3.58 | 620 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 6.89 | 3000 | 6.89 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 1.92 | 2051 | 1.85 | 2127 |
| 30 | 0 | 0 | 0 | 0.197 | 2.31 | 1705 | 2.19 | 1803 |
| 40 | 0 | 0 | 0 | 0.197 | 2.47 | 1595 | 2.32 | 1697 |
| 50 | 0 | 0 | 0 | 0.197 | 2.65 | 1489 | 2.47 | 1593 |
| 60 | 0 | 0 | 0 | 0.197 | 2.84 | 1388 | 2.64 | 1492 |
| 70 | 0 | 0 | 0 | 0.197 | 3.05 | 1291 | 2.83 | 1394 |
| 80 | 0 | 0 | 0 | 0.197 | 3.28 | 1201 | 3.03 | 1300 |
| 90 | 0 | 0 | 0 | 0.197 | 3.53 | 1117 | 3.25 | 1212 |
| 100 | 0 | 0 | 0 | 0.197 | 3.79 | 1039 | 3.49 | 1128 |
| 110 | 0 | 0 | 0 | 0.197 | 4.07 | 969 | 3.75 | 1050 |
| 120 | 0 | 0 | 0 | 0.197 | 4.36 | 905 | 4.03 | 979 |
| 130 | 0 | 0 | 0 | 0.197 | 4.65 | 848 | 4.31 | 914 |
| 167 | 0 | 0 | 0 | 0.197 | 5.66 | 696 | 5.39 | 731 |
| 212 | 0 | 0 | 0 | 0.197 | 6.83 | 578 | 6.54 | 603 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 10.77 | 3000 | 10.77 | 3000* |
| 0 | 0 | 0 | 0 | 0.197 | 4.09 | 1505 | 3.86 | 1596 |
| 30 | 0 | 0 | 0 | 0.197 | 4.94 | 1248 | 4.61 | 1336 |
| 40 | 0 | 0 | 0 | 0.197 | 5.25 | 1173 | 4.9 | 1258 |
| 50 | 0 | 0 | 0 | 0.197 | 5.57 | 1105 | 5.2 | 1185 |
| 60 | 0 | 0 | 0 | 0.197 | 5.91 | 1042 | 5.51 | 1117 |
| 70 | 0 | 0 | 0 | 0.197 | 6.25 | 985 | 5.84 | 1054 |
| 80 | 0 | 0 | 0 | 0.197 | 6.6 | 934 | 6.18 | 997 |
| 90 | 0 | 0 | 0 | 0.197 | 6.95 | 887 | 6.53 | 944 |
| 100 | 0 | 0 | 0 | 0.197 | 7.3 | 844 | 6.87 | 896 |
| 110 | 0 | 0 | 0 | 0.197 | 7.65 | 806 | 7.23 | 853 |
| 120 | 0 | 0 | 0 | 0.197 | 7.99 | 771 | 7.58 | 813 |
| 130 | 0 | 0 | 0 | 0.197 | 8.34 | 739 | 7.93 | 777 |
| 167 | 0 | 0 | 0 | 0.197 | 9.44 | 653 | 9.13 | 675 |
| 212 | 0 | 0 | 0 | 0.197 | 10.71 | 576 | 10.4 | 593 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 |
| 150.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 |
| 125.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 |
| 175.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 250.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.230

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 275.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 300.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 |
| 325.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-11 |
| 350.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 |
| 375.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 175.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 200.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 225.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |
| 250.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 275.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 |
| 300.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 325.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 |
| 350.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 375.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-7 | 2-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 225.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 |
| 250.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 |
| 275.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 300.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 |
| 325.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 350.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 375.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-4 |
| 400.00 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 |
| 425.00 | 2-4 | 2-6 | 2-7 | 2-10 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 |
| 450.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-9 |
| 475.00 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-7 | 4-11 | 5-3 |
| 500.00 | 3-3 | 3-5 | 3-8 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 | 5-6 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 225.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 250.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 275.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 300.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 |
| 325.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 350.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 |
| 375.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 |
| 400.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 | 3-6 | 3-10 | 4-1 |
| 425.00 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 |
| 450.00 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 |
| 475.00 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-9 |
| 500.00 | 3-5 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 | 5-2 | 5-6 | 5-11 | 6-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 275.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 300.00 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 |
| 325.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 |
| 350.00 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 375.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-1 |
| 400.00 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 | 4-7 |
| 425.00 | 3-2 | 3-4 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 |
| 450.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-7 | 5-10 |
| 475.00 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 |
| 500.00 | 4-4 | 4-7 | 4-11 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-3 |
| 525.00 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-10 | 7-2 | 7-7 | 8-0 |
| 550.00 | 5-3 | 5-7 | 5-11 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 | 8-4 | 8-9 |
| 575.00 | 5-9 | 6-1 | 6-6 | 6-11 | 7-4 | 7-9 | 8-2 | 8-8 | 9-1 | 9-7 |
| 600.00 | 6-3 | 6-8 | 7-1 | 7-6 | 7-11 | 8-5 | 8-11 | 9-5 | 9-11 | 10-5 |
| 625.00 | 6-9 | 7-2 | 7-8 | 8-1 | 8-7 | 9-2 | 9-8 | 10-2 | 10-9 | 11-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 275.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 |
| 300.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 |
| 325.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 |
| 350.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 |
| 375.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-4 |
| 400.00 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-5 | 4-8 | 4-11 |
| 425.00 | 3-4 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 |
| 450.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 |
| 475.00 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-7 | 6-11 |
| 500.00 | 4-8 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-4 | 7-8 |
| 525.00 | 5-1 | 5-5 | 5-9 | 6-2 | 6-6 | 6-11 | 7-3 | 7-8 | 8-1 | 8-5 |
| 550.00 | 5-7 | 6-0 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 | 8-10 | 9-3 |
| 575.00 | 6-2 | 6-6 | 6-11 | 7-4 | 7-10 | 8-3 | 8-9 | 9-2 | 9-8 | 10-1 |
| 600.00 | 6-8 | 7-1 | 7-7 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-6 | 11-0 |
| 625.00 | 7-3 | 7-9 | 8-2 | 8-9 | 9-3 | 9-9 | 10-4 | 10-10 | 11-5 | 11-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 0.38 | 3437 | 0.37 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.07 | 3638 | 0.07 | 3663 |
| 30 | 0 | 0 | 0 | 0.197 | 0.08 | 3247 | 0.07 | 3341 |
| 40 | 0 | 0 | 0 | 0.197 | 0.08 | 3116 | 0.08 | 3231 |
| 50 | 0 | 0 | 0 | 0.197 | 0.08 | 2985 | 0.08 | 3120 |
| 60 | 0 | 0 | 0 | 0.197 | 0.09 | 2855 | 0.08 | 3007 |
| 70 | 0 | 0 | 0 | 0.197 | 0.09 | 2725 | 0.09 | 2892 |
| 80 | 0 | 0 | 0 | 0.197 | 0.09 | 2594 | 0.09 | 2776 |
| 90 | 0 | 0 | 0 | 0.197 | 0.1 | 2464 | 0.09 | 2659 |
| 100 | 0 | 0 | 0 | 0.197 | 0.11 | 2334 | 0.1 | 2541 |
| 110 | 0 | 0 | 0 | 0.197 | 0.11 | 2204 | 0.1 | 2421 |
| 120 | 0 | 0 | 0 | 0.197 | 0.12 | 2074 | 0.11 | 2300 |
| 130 | 0 | 0 | 0 | 0.197 | 0.13 | 1944 | 0.11 | 2177 |
| 167 | 0 | 0 | 0 | 0.197 | 0.17 | 1465 | 0.14 | 1716 |
| 212 | 0 | 0 | 0 | 0.197 | 0.25 | 987 | 0.21 | 1147 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 1.49 | 3462 | 1.47 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.28 | 3486 | 0.28 | 3515 |
| 30 | 0 | 0 | 0 | 0.197 | 0.32 | 3096 | 0.31 | 3191 |
| 40 | 0 | 0 | 0 | 0.197 | 0.33 | 2967 | 0.32 | 3080 |
| 50 | 0 | 0 | 0 | 0.197 | 0.35 | 2837 | 0.33 | 2967 |
| 60 | 0 | 0 | 0 | 0.197 | 0.36 | 2708 | 0.35 | 2853 |
| 70 | 0 | 0 | 0 | 0.197 | 0.38 | 2578 | 0.36 | 2739 |
| 80 | 0 | 0 | 0 | 0.197 | 0.4 | 2449 | 0.38 | 2622 |
| 90 | 0 | 0 | 0 | 0.197 | 0.42 | 2321 | 0.39 | 2505 |
| 100 | 0 | 0 | 0 | 0.197 | 0.45 | 2192 | 0.41 | 2387 |
| 110 | 0 | 0 | 0 | 0.197 | 0.48 | 2064 | 0.43 | 2267 |
| 120 | 0 | 0 | 0 | 0.197 | 0.51 | 1937 | 0.46 | 2147 |
| 130 | 0 | 0 | 0 | 0.197 | 0.54 | 1811 | 0.49 | 2026 |
| 167 | 0 | 0 | 0 | 0.197 | 0.73 | 1353 | 0.63 | 1575 |
| 212 | 0 | 0 | 0 | 0.197 | 1.06 | 926 | 0.93 | 1059 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 3.33 | 3494 | 3.32 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 0.69 | 3235 | 0.68 | 3267 |
| 30 | 0 | 0 | 0 | 0.197 | 0.78 | 2850 | 0.75 | 2939 |
| 40 | 0 | 0 | 0 | 0.197 | 0.81 | 2722 | 0.78 | 2827 |
| 50 | 0 | 0 | 0 | 0.197 | 0.85 | 2594 | 0.82 | 2714 |
| 60 | 0 | 0 | 0 | 0.197 | 0.9 | 2467 | 0.85 | 2600 |
| 70 | 0 | 0 | 0 | 0.197 | 0.95 | 2341 | 0.89 | 2485 |
| 80 | 0 | 0 | 0 | 0.197 | 1 | 2215 | 0.94 | 2369 |
| 90 | 0 | 0 | 0 | 0.197 | 1.06 | 2091 | 0.98 | 2253 |
| 100 | 0 | 0 | 0 | 0.197 | 1.13 | 1967 | 1.04 | 2136 |
| 110 | 0 | 0 | 0 | 0.197 | 1.2 | 1845 | 1.1 | 2019 |
| 120 | 0 | 0 | 0 | 0.197 | 1.29 | 1724 | 1.17 | 1902 |
| 130 | 0 | 0 | 0 | 0.197 | 1.38 | 1606 | 1.24 | 1786 |
| 167 | 0 | 0 | 0 | 0.197 | 1.85 | 1197 | 1.62 | 1366 |
| 212 | 0 | 0 | 0 | 0.197 | 2.58 | 859 | 2.33 | 952 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 5.9 | 3500 | 5.9 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 1.38 | 2851 | 1.35 | 2921 |
| 30 | 0 | 0 | 0 | 0.197 | 1.59 | 2476 | 1.52 | 2591 |
| 40 | 0 | 0 | 0 | 0.197 | 1.68 | 2352 | 1.59 | 2479 |
| 50 | 0 | 0 | 0 | 0.197 | 1.77 | 2230 | 1.66 | 2367 |
| 60 | 0 | 0 | 0 | 0.197 | 1.87 | 2110 | 1.75 | 2255 |
| 70 | 0 | 0 | 0 | 0.197 | 1.98 | 1991 | 1.84 | 2143 |
| 80 | 0 | 0 | 0 | 0.197 | 2.1 | 1874 | 1.94 | 2032 |
| 90 | 0 | 0 | 0 | 0.197 | 2.24 | 1760 | 2.05 | 1921 |
| 100 | 0 | 0 | 0 | 0.197 | 2.39 | 1648 | 2.18 | 1811 |
| 110 | 0 | 0 | 0 | 0.197 | 2.56 | 1541 | 2.31 | 1702 |
| 120 | 0 | 0 | 0 | 0.197 | 2.74 | 1437 | 2.47 | 1596 |
| 130 | 0 | 0 | 0 | 0.197 | 2.95 | 1338 | 2.64 | 1493 |
| 167 | 0 | 0 | 0 | 0.197 | 3.79 | 1040 | 3.44 | 1147 |
| 212 | 0 | 0 | 0 | 0.197 | 4.91 | 803 | 4.58 | 861 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 1.032 | 9.23 | 3500 | 9.23 | 3500* |
| 0 | 0 | 0 | 0 | 0.197 | 2.59 | 2374 | 2.48 | 2485 |
| 30 | 0 | 0 | 0 | 0.197 | 3.04 | 2026 | 2.84 | 2164 |
| 40 | 0 | 0 | 0 | 0.197 | 3.22 | 1915 | 2.99 | 2059 |
| 50 | 0 | 0 | 0 | 0.197 | 3.41 | 1806 | 3.15 | 1954 |
| 60 | 0 | 0 | 0 | 0.197 | 3.62 | 1702 | 3.33 | 1851 |
| 70 | 0 | 0 | 0 | 0.197 | 3.85 | 1601 | 3.52 | 1750 |
| 80 | 0 | 0 | 0 | 0.197 | 4.09 | 1505 | 3.73 | 1652 |
| 90 | 0 | 0 | 0 | 0.197 | 4.36 | 1414 | 3.96 | 1557 |
| 100 | 0 | 0 | 0 | 0.197 | 4.64 | 1328 | 4.2 | 1466 |
| 110 | 0 | 0 | 0 | 0.197 | 4.94 | 1248 | 4.47 | 1378 |
| 120 | 0 | 0 | 0 | 0.197 | 5.25 | 1173 | 4.75 | 1296 |
| 130 | 0 | 0 | 0 | 0.197 | 5.57 | 1105 | 5.05 | 1219 |
| 167 | 0 | 0 | 0 | 0.197 | 6.72 | 916 | 6.28 | 980 |
| 212 | 0 | 0 | 0 | 0.197 | 8.1 | 761 | 7.7 | 801 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-0 | 0-0 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 200.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-0 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| 125.00 | 0-1 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-4 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 |
| 250.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 275.00 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 300.00 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 325.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 |
| 350.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 375.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 175.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 200.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 |
| 225.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 250.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 275.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 300.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 |
| 325.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 350.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 |
| 375.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 250.00 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 275.00 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 300.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 325.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 350.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 375.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 400.00 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 425.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 450.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 |
| 475.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 500.00 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 225.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 250.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 275.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 300.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 325.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 350.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 375.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 400.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 |
| 425.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-11 |
| 450.00 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 |
| 475.00 | 2-2 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 3-0 | 3-2 | 3-4 | 3-7 |
| 500.00 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS



OH815.240

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 275.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 300.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 325.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 |
| 350.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 |
| 375.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 |
| 400.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 |
| 425.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 |
| 450.00 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 |
| 475.00 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-10 | 4-0 |
| 500.00 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-6 |
| 525.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 | 4-8 | 4-11 |
| 550.00 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 | 5-1 | 5-5 |
| 575.00 | 3-7 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-3 | 5-7 | 5-11 |
| 600.00 | 3-11 | 4-1 | 4-4 | 4-6 | 4-9 | 5-1 | 5-4 | 5-8 | 6-1 | 6-5 |
| 625.00 | 4-3 | 4-5 | 4-8 | 4-11 | 5-2 | 5-6 | 5-10 | 6-2 | 6-7 | 7-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 275.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 300.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 325.00 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 |
| 350.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 |
| 375.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 400.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 3-0 | 3-2 |
| 425.00 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 |
| 450.00 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 |
| 475.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 |
| 500.00 | 2-11 | 3-0 | 3-3 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 |
| 525.00 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 |
| 550.00 | 3-6 | 3-8 | 3-11 | 4-1 | 4-5 | 4-8 | 4-11 | 5-3 | 5-7 | 6-0 |
| 575.00 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 | 5-1 | 5-5 | 5-9 | 6-2 | 6-6 |
| 600.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-3 | 5-6 | 5-11 | 6-3 | 6-8 | 7-1 |
| 625.00 | 4-6 | 4-9 | 5-0 | 5-4 | 5-8 | 6-0 | 6-5 | 6-10 | 7-3 | 7-9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #6 3-STRAND BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION

390 LB TENSION ---------- 816.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

390 LB TENSION ---------- 816.7

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

390 LB TENSION ---------- 816.12

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

390 LB TENSION ---------- 816.17


TABLE OF CONTENTS

**REFERENCE**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#6 3-STRAND BARE COPPER TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.157 | 0.50 | 390 | 0.50 | 390* |
| 25 | 0 | 0 | 0 | 0.083 | 0.28 | 365 | 0.28 | 368 |
| 30 | 0 | 0 | 0 | 0.083 | 0.30 | 341 | 0.30 | 347 |
| 40 | 0 | 0 | 0 | 0.083 | 0.35 | 295 | 0.34 | 306 |
| 50 | 0 | 0 | 0 | 0.083 | 0.41 | 251 | 0.39 | 266 |
| 60 | 0 | 0 | 0 | 0.083 | 0.49 | 211 | 0.45 | 229 |
| 70 | 0 | 0 | 0 | 0.083 | 0.59 | 176 | 0.53 | 195 |
| 80 | 0 | 0 | 0 | 0.083 | 0.70 | 147 | 0.63 | 164 |
| 90 | 0 | 0 | 0 | 0.083 | 0.83 | 124 | 0.74 | 140 |
| 100 | 0 | 0 | 0 | 0.083 | 0.96 | 107 | 0.86 | 120 |
| 110 | 0 | 0 | 0 | 0.083 | 1.09 | 95 | 0.98 | 105 |
| 120 | 0 | 0 | 0 | 0.083 | 1.21 | 85 | 1.11 | 93 |
| 130 | 0 | 0 | 0 | 0.083 | 1.33 | 77 | 1.23 | 84 |
| 167 | 0 | 0 | 0 | 0.083 | 1.72 | 60 | 1.63 | 63 |
| 212 | 0 | 0 | 0 | 0.083 | 2.11 | 49 | 2.03 | 51 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.157 | 2.02 | 390 | 2.02 | 390* |
| 25 | 0 | 0 | 0 | 0.083 | 1.34 | 308 | 1.31 | 316 |
| 30 | 0 | 0 | 0 | 0.083 | 1.42 | 291 | 1.38 | 300 |
| 40 | 0 | 0 | 0 | 0.083 | 1.59 | 259 | 1.53 | 270 |
| 50 | 0 | 0 | 0 | 0.083 | 1.78 | 232 | 1.70 | 243 |
| 60 | 0 | 0 | 0 | 0.083 | 1.98 | 208 | 1.88 | 219 |
| 70 | 0 | 0 | 0 | 0.083 | 2.19 | 188 | 2.08 | 199 |
| 80 | 0 | 0 | 0 | 0.083 | 2.40 | 172 | 2.27 | 181 |
| 90 | 0 | 0 | 0 | 0.083 | 2.60 | 159 | 2.47 | 167 |
| 100 | 0 | 0 | 0 | 0.083 | 2.81 | 147 | 2.67 | 155 |
| 110 | 0 | 0 | 0 | 0.083 | 3.00 | 138 | 2.86 | 144 |
| 120 | 0 | 0 | 0 | 0.083 | 3.19 | 129 | 3.05 | 135 |
| 130 | 0 | 0 | 0 | 0.083 | 3.38 | 122 | 3.24 | 127 |
| 167 | 0 | 0 | 0 | 0.083 | 4.01 | 103 | 3.88 | 107 |
| 212 | 0 | 0 | 0 | 0.083 | 4.69 | 88 | 4.57 | 90 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.157 | 4.54 | 390 | 4.54 | 390* |
| 25 | 0 | 0 | 0 | 0.083 | 3.55 | 262 | 3.45 | 269 |
| 30 | 0 | 0 | 0 | 0.083 | 3.68 | 252 | 3.58 | 259 |
| 40 | 0 | 0 | 0 | 0.083 | 3.96 | 235 | 3.84 | 242 |
| 50 | 0 | 0 | 0 | 0.083 | 4.23 | 220 | 4.10 | 226 |
| 60 | 0 | 0 | 0 | 0.083 | 4.50 | 207 | 4.36 | 213 |
| 70 | 0 | 0 | 0 | 0.083 | 4.76 | 195 | 4.62 | 201 |
| 80 | 0 | 0 | 0 | 0.083 | 5.02 | 185 | 4.88 | 191 |
| 90 | 0 | 0 | 0 | 0.083 | 5.28 | 176 | 5.13 | 181 |
| 100 | 0 | 0 | 0 | 0.083 | 5.52 | 168 | 5.37 | 173 |
| 110 | 0 | 0 | 0 | 0.083 | 5.77 | 161 | 5.61 | 166 |
| 120 | 0 | 0 | 0 | 0.083 | 6.00 | 155 | 5.85 | 159 |
| 130 | 0 | 0 | 0 | 0.083 | 6.23 | 149 | 6.08 | 153 |
| 167 | 0 | 0 | 0 | 0.083 | 7.04 | 132 | 6.89 | 135 |
| 212 | 0 | 0 | 0 | 0.083 | 7.93 | 117 | 7.78 | 120 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-8 | 0-9 | 0-10 | 1-0 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 | 1-4 | 1-6 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 | 1-11 | 2-3 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-5 | 1-7 | 1-11 | 2-3 | 2-8 | 3-0 |
| 200.00 | 1-1 | 1-2 | 1-4 | 1-7 | 1-10 | 2-1 | 2-6 | 2-11 | 3-5 | 3-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-1 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-6 | 1-8 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 | 2-2 | 2-5 |
| 175.00 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-10 | 2-2 | 2-7 | 2-11 | 3-4 |
| 200.00 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 | 2-4 | 2-10 | 3-4 | 3-10 | 4-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 175.00 | 0-11 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-2 |
| 200.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 |
| 225.00 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 |
| 250.00 | 1-11 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 3-10 | 4-2 | 4-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 175.00 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 200.00 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 |
| 225.00 | 1-7 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 |
| 250.00 | 2-0 | 2-3 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 |
| 225.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 |
| 250.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 |
| 275.00 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-1 | 4-4 | 4-6 | 4-9 |
| 300.00 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-11 | 5-2 | 5-4 | 5-7 |
| 325.00 | 3-11 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 | 5-9 | 6-0 | 6-4 | 6-7 |
| 350.00 | 4-6 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-8 | 7-0 | 7-4 | 7-8 |
| 375.00 | 5-2 | 5-7 | 6-0 | 6-5 | 6-10 | 7-3 | 7-7 | 8-0 | 8-5 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 |
| 175.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 200.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 |
| 225.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 |
| 250.00 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 |
| 275.00 | 2-10 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-5 | 4-8 | 4-10 |
| 300.00 | 3-5 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 |
| 325.00 | 4-0 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 | 6-9 |
| 350.00 | 4-8 | 5-0 | 5-5 | 5-9 | 6-1 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 |
| 375.00 | 5-4 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-10 | 8-3 | 8-8 | 9-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS



OH816.6

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.199 | 0.64 | 390 | 0.64 | 390* |
| 20 | 0 | 0 | 0 | 0.083 | 0.22 | 477 | 0.22 | 477 |
| 30 | 0 | 0 | 0 | 0.083 | 0.24 | 434 | 0.24 | 434 |
| 40 | 0 | 0 | 0 | 0.083 | 0.26 | 392 | 0.26 | 392 |
| 50 | 0 | 0 | 0 | 0.083 | 0.30 | 345 | 0.29 | 350 |
| 60 | 0 | 0 | 0 | 0.083 | 0.35 | 298 | 0.33 | 309 |
| 70 | 0 | 0 | 0 | 0.083 | 0.41 | 254 | 0.38 | 269 |
| 80 | 0 | 0 | 0 | 0.083 | 0.48 | 214 | 0.45 | 231 |
| 90 | 0 | 0 | 0 | 0.083 | 0.58 | 178 | 0.52 | 197 |
| 100 | 0 | 0 | 0 | 0.083 | 0.70 | 148 | 0.62 | 166 |
| 110 | 0 | 0 | 0 | 0.083 | 0.82 | 125 | 0.73 | 141 |
| 120 | 0 | 0 | 0 | 0.083 | 0.95 | 108 | 0.85 | 121 |
| 130 | 0 | 0 | 0 | 0.083 | 1.08 | 95 | 0.98 | 106 |
| 167 | 0 | 0 | 0 | 0.083 | 1.51 | 68 | 1.41 | 73 |
| 212 | 0 | 0 | 0 | 0.083 | 1.94 | 53 | 1.85 | 56 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.199 | 2.55 | 390 | 2.55 | 390* |
| 20 | 0 | 0 | 0 | 0.083 | 1.16 | 356 | 1.15 | 360 |
| 30 | 0 | 0 | 0 | 0.083 | 1.30 | 318 | 1.27 | 325 |
| 40 | 0 | 0 | 0 | 0.083 | 1.46 | 283 | 1.41 | 293 |
| 50 | 0 | 0 | 0 | 0.083 | 1.63 | 253 | 1.57 | 263 |
| 60 | 0 | 0 | 0 | 0.083 | 1.83 | 226 | 1.74 | 237 |
| 70 | 0 | 0 | 0 | 0.083 | 2.03 | 203 | 1.93 | 214 |
| 80 | 0 | 0 | 0 | 0.083 | 2.24 | 185 | 2.12 | 195 |
| 90 | 0 | 0 | 0 | 0.083 | 2.44 | 169 | 2.32 | 178 |
| 100 | 0 | 0 | 0 | 0.083 | 2.65 | 156 | 2.52 | 164 |
| 110 | 0 | 0 | 0 | 0.083 | 2.85 | 145 | 2.71 | 152 |
| 120 | 0 | 0 | 0 | 0.083 | 3.05 | 136 | 2.91 | 142 |
| 130 | 0 | 0 | 0 | 0.083 | 3.24 | 128 | 3.10 | 133 |
| 167 | 0 | 0 | 0 | 0.083 | 3.89 | 106 | 3.75 | 110 |
| 212 | 0 | 0 | 0 | 0.083 | 4.58 | 90 | 4.46 | 93 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.199 | 5.74 | 390 | 5.74 | 390* |
| 20 | 0 | 0 | 0 | 0.083 | 3.79 | 245 | 3.68 | 252 |
| 30 | 0 | 0 | 0 | 0.083 | 4.06 | 229 | 3.94 | 236 |
| 40 | 0 | 0 | 0 | 0.083 | 4.33 | 214 | 4.20 | 221 |
| 50 | 0 | 0 | 0 | 0.083 | 4.60 | 202 | 4.46 | 208 |
| 60 | 0 | 0 | 0 | 0.083 | 4.86 | 191 | 4.72 | 197 |
| 70 | 0 | 0 | 0 | 0.083 | 5.12 | 181 | 4.97 | 187 |
| 80 | 0 | 0 | 0 | 0.083 | 5.37 | 173 | 5.22 | 178 |
| 90 | 0 | 0 | 0 | 0.083 | 5.62 | 165 | 5.47 | 170 |
| 100 | 0 | 0 | 0 | 0.083 | 5.86 | 159 | 5.70 | 163 |
| 110 | 0 | 0 | 0 | 0.083 | 6.09 | 153 | 5.94 | 157 |
| 120 | 0 | 0 | 0 | 0.083 | 6.32 | 147 | 6.17 | 151 |
| 130 | 0 | 0 | 0 | 0.083 | 6.54 | 142 | 6.39 | 146 |
| 167 | 0 | 0 | 0 | 0.083 | 7.32 | 127 | 7.17 | 130 |
| 212 | 0 | 0 | 0 | 0.083 | 8.19 | 114 | 8.04 | 116 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 | 1-0 | 1-2 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-5 | 1-8 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-3 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 2-1 | 2-6 | 2-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-1 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 |
| 125.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 |
| 150.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-4 | 1-7 | 1-10 |
| 175.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-6 | 1-9 | 2-2 | 2-6 |
| 200.00 | 0-10 | 0-11 | 1-1 | 1-2 | 1-5 | 1-7 | 1-11 | 2-4 | 2-9 | 3-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.9

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 |
| 225.00 | 1-5 | 1-7 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 |
| 250.00 | 1-9 | 2-0 | 2-2 | 2-5 | 2-9 | 3-0 | 3-4 | 3-7 | 3-11 | 4-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 |
| 200.00 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 |
| 225.00 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 |
| 250.00 | 1-10 | 2-0 | 2-3 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.10

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 |
| 175.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 200.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 |
| 225.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 |
| 250.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-1 |
| 275.00 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-10 | 5-0 |
| 300.00 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 |
| 325.00 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-5 | 6-8 | 7-0 |
| 350.00 | 5-0 | 5-4 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 | 7-9 | 8-1 |
| 375.00 | 5-9 | 6-2 | 6-7 | 7-0 | 7-5 | 7-9 | 8-2 | 8-7 | 8-11 | 9-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 |
| 175.00 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 200.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 |
| 225.00 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 |
| 250.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 |
| 275.00 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 |
| 300.00 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 |
| 325.00 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-0 | 6-4 | 6-7 | 6-11 | 7-2 |
| 350.00 | 5-2 | 5-6 | 5-11 | 6-3 | 6-7 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 |
| 375.00 | 5-11 | 6-4 | 6-9 | 7-2 | 7-7 | 8-0 | 8-5 | 8-9 | 9-2 | 9-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS



OH816.11

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.321 | 1.03 | 390 | 1.03 | 390* |
| 20 | 0 | 0 | 0 | 0.083 | 0.26 | 398 | 0.26 | 398 |
| 30 | 0 | 0 | 0 | 0.083 | 0.29 | 352 | 0.29 | 356 |
| 40 | 0 | 0 | 0 | 0.083 | 0.34 | 305 | 0.33 | 315 |
| 50 | 0 | 0 | 0 | 0.083 | 0.40 | 261 | 0.37 | 275 |
| 60 | 0 | 0 | 0 | 0.083 | 0.47 | 220 | 0.44 | 237 |
| 70 | 0 | 0 | 0 | 0.083 | 0.56 | 183 | 0.51 | 202 |
| 80 | 0 | 0 | 0 | 0.083 | 0.68 | 152 | 0.60 | 171 |
| 90 | 0 | 0 | 0 | 0.083 | 0.80 | 129 | 0.71 | 145 |
| 100 | 0 | 0 | 0 | 0.083 | 0.93 | 111 | 0.83 | 124 |
| 110 | 0 | 0 | 0 | 0.083 | 1.06 | 97 | 0.96 | 108 |
| 120 | 0 | 0 | 0 | 0.083 | 1.19 | 87 | 1.08 | 95 |
| 130 | 0 | 0 | 0 | 0.083 | 1.31 | 79 | 1.20 | 86 |
| 167 | 0 | 0 | 0 | 0.083 | 1.70 | 61 | 1.60 | 64 |
| 212 | 0 | 0 | 0 | 0.083 | 2.10 | 49 | 2.01 | 51 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.321 | 4.12 | 390 | 4.12 | 390* |
| 20 | 0 | 0 | 0 | 0.083 | 2.53 | 163 | 2.40 | 172 |
| 30 | 0 | 0 | 0 | 0.083 | 2.73 | 151 | 2.60 | 159 |
| 40 | 0 | 0 | 0 | 0.083 | 2.93 | 141 | 2.79 | 148 |
| 50 | 0 | 0 | 0 | 0.083 | 3.12 | 132 | 2.98 | 138 |
| 60 | 0 | 0 | 0 | 0.083 | 3.31 | 125 | 3.17 | 130 |
| 70 | 0 | 0 | 0 | 0.083 | 3.49 | 118 | 3.35 | 123 |
| 80 | 0 | 0 | 0 | 0.083 | 3.67 | 113 | 3.53 | 117 |
| 90 | 0 | 0 | 0 | 0.083 | 3.84 | 108 | 3.70 | 112 |
| 100 | 0 | 0 | 0 | 0.083 | 4.00 | 103 | 3.87 | 107 |
| 110 | 0 | 0 | 0 | 0.083 | 4.16 | 99 | 4.03 | 103 |
| 120 | 0 | 0 | 0 | 0.083 | 4.32 | 96 | 4.18 | 99 |
| 130 | 0 | 0 | 0 | 0.083 | 4.47 | 93 | 4.34 | 95 |
| 167 | 0 | 0 | 0 | 0.083 | 4.99 | 83 | 4.87 | 85 |
| 212 | 0 | 0 | 0 | 0.083 | 5.57 | 74 | 5.46 | 76 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.321 | 9.29 | 390 | 9.29 | 390* |
| 20 | 0 | 0 | 0 | 0.083 | 7.73 | 120 | 7.58 | 123 |
| 30 | 0 | 0 | 0 | 0.083 | 7.92 | 118 | 7.77 | 120 |
| 40 | 0 | 0 | 0 | 0.083 | 8.11 | 115 | 7.96 | 117 |
| 50 | 0 | 0 | 0 | 0.083 | 8.29 | 112 | 8.14 | 114 |
| 60 | 0 | 0 | 0 | 0.083 | 8.47 | 110 | 8.33 | 112 |
| 70 | 0 | 0 | 0 | 0.083 | 8.65 | 108 | 8.51 | 109 |
| 80 | 0 | 0 | 0 | 0.083 | 8.82 | 106 | 8.68 | 107 |
| 90 | 0 | 0 | 0 | 0.083 | 8.99 | 104 | 8.85 | 105 |
| 100 | 0 | 0 | 0 | 0.083 | 9.16 | 102 | 9.02 | 103 |
| 110 | 0 | 0 | 0 | 0.083 | 9.33 | 100 | 9.19 | 101 |
| 120 | 0 | 0 | 0 | 0.083 | 9.49 | 98 | 9.36 | 100 |
| 130 | 0 | 0 | 0 | 0.083 | 9.65 | 97 | 9.52 | 98 |
| 167 | 0 | 0 | 0 | 0.083 | 10.23 | 91 | 10.10 | 92 |
| 212 | 0 | 0 | 0 | 0.083 | 10.89 | 86 | 10.77 | 87 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-6 | 0-6 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-9 | 0-10 | 0-11 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 | 1-4 | 1-6 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-2 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-10 | 2-2 | 2-7 | 2-11 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-1 | 2-5 | 2-10 | 3-4 | 3-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-10 | 0-11 | 1-1 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-9 | 0-11 | 1-1 | 1-3 | 1-5 | 1-8 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-1 | 1-3 | 1-6 | 1-10 | 2-1 | 2-5 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-3 | 1-5 | 1-9 | 2-1 | 2-5 | 2-10 | 3-3 |
| 200.00 | 1-0 | 1-2 | 1-4 | 1-7 | 1-11 | 2-3 | 2-8 | 3-3 | 3-9 | 4-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 175.00 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-1 |
| 200.00 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 |
| 225.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 |
| 250.00 | 3-9 | 4-1 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 | 5-9 | 6-1 | 6-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-0 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 150.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 175.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 |
| 200.00 | 2-6 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 225.00 | 3-2 | 3-5 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-3 |
| 250.00 | 3-11 | 4-3 | 4-7 | 4-11 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 | 6-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 175.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-1 |
| 200.00 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 225.00 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-2 |
| 250.00 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-5 |
| 275.00 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-5 | 7-7 | 7-9 |
| 300.00 | 7-7 | 7-9 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 |
| 325.00 | 8-11 | 9-1 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 |
| 350.00 | 10-4 | 10-7 | 10-10 | 11-1 | 11-4 | 11-7 | 11-10 | 12-1 | 12-3 | 12-6 |
| 375.00 | 11-10 | 12-2 | 12-5 | 12-9 | 13-0 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 |
| 175.00 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 |
| 200.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 225.00 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 |
| 250.00 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-6 |
| 275.00 | 6-6 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-5 | 7-7 | 7-8 | 7-10 |
| 300.00 | 7-9 | 7-11 | 8-1 | 8-3 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 |
| 325.00 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-2 | 10-4 | 10-7 | 10-9 | 10-11 |
| 350.00 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-8 |
| 375.00 | 12-1 | 12-5 | 12-8 | 13-0 | 13-3 | 13-6 | 13-10 | 14-1 | 14-4 | 14-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.534 | 1.71 | 390 | 1.71 | 390* |
| 20 | 0 | 0 | 0 | 0.083 | 0.60 | 172 | 0.54 | 191 |
| 30 | 0 | 0 | 0 | 0.083 | 0.72 | 144 | 0.64 | 162 |
| 40 | 0 | 0 | 0 | 0.083 | 0.84 | 122 | 0.75 | 137 |
| 50 | 0 | 0 | 0 | 0.083 | 0.98 | 106 | 0.87 | 118 |
| 60 | 0 | 0 | 0 | 0.083 | 1.10 | 93 | 1.00 | 103 |
| 70 | 0 | 0 | 0 | 0.083 | 1.23 | 84 | 1.12 | 92 |
| 80 | 0 | 0 | 0 | 0.083 | 1.34 | 77 | 1.24 | 83 |
| 90 | 0 | 0 | 0 | 0.083 | 1.46 | 71 | 1.35 | 76 |
| 100 | 0 | 0 | 0 | 0.083 | 1.56 | 66 | 1.46 | 71 |
| 110 | 0 | 0 | 0 | 0.083 | 1.66 | 62 | 1.57 | 66 |
| 120 | 0 | 0 | 0 | 0.083 | 1.76 | 59 | 1.67 | 62 |
| 130 | 0 | 0 | 0 | 0.083 | 1.85 | 56 | 1.76 | 59 |
| 167 | 0 | 0 | 0 | 0.083 | 2.16 | 48 | 2.08 | 50 |
| 212 | 0 | 0 | 0 | 0.083 | 2.49 | 41 | 2.42 | 43 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.534 | 6.88 | 390 | 6.88 | 390* |
| 20 | 0 | 0 | 0 | 0.083 | 5.84 | 71 | 5.73 | 72 |
| 30 | 0 | 0 | 0 | 0.083 | 5.96 | 69 | 5.85 | 71 |
| 40 | 0 | 0 | 0 | 0.083 | 6.07 | 68 | 5.97 | 69 |
| 50 | 0 | 0 | 0 | 0.083 | 6.19 | 67 | 6.08 | 68 |
| 60 | 0 | 0 | 0 | 0.083 | 6.30 | 66 | 6.19 | 67 |
| 70 | 0 | 0 | 0 | 0.083 | 6.41 | 65 | 6.30 | 66 |
| 80 | 0 | 0 | 0 | 0.083 | 6.51 | 64 | 6.41 | 65 |
| 90 | 0 | 0 | 0 | 0.083 | 6.62 | 63 | 6.52 | 64 |
| 100 | 0 | 0 | 0 | 0.083 | 6.72 | 62 | 6.62 | 63 |
| 110 | 0 | 0 | 0 | 0.083 | 6.83 | 61 | 6.73 | 62 |
| 120 | 0 | 0 | 0 | 0.083 | 6.93 | 60 | 6.83 | 61 |
| 130 | 0 | 0 | 0 | 0.083 | 7.03 | 59 | 6.93 | 60 |
| 167 | 0 | 0 | 0 | 0.083 | 7.38 | 56 | 7.29 | 57 |
| 212 | 0 | 0 | 0 | 0.083 | 7.80 | 53 | 7.71 | 54 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.534 | 15.57 | 390 | 15.57 | 390* |
| 20 | 0 | 0 | 0 | 0.083 | 14.57 | 64 | 14.46 | 65 |
| 30 | 0 | 0 | 0 | 0.083 | 14.68 | 64 | 14.57 | 64 |
| 40 | 0 | 0 | 0 | 0.083 | 14.78 | 63 | 14.68 | 64 |
| 50 | 0 | 0 | 0 | 0.083 | 14.89 | 63 | 14.79 | 63 |
| 60 | 0 | 0 | 0 | 0.083 | 15.00 | 63 | 14.89 | 63 |
| 70 | 0 | 0 | 0 | 0.083 | 15.10 | 62 | 15.00 | 62 |
| 80 | 0 | 0 | 0 | 0.083 | 15.21 | 62 | 15.11 | 62 |
| 90 | 0 | 0 | 0 | 0.083 | 15.31 | 61 | 15.21 | 62 |
| 100 | 0 | 0 | 0 | 0.083 | 15.41 | 61 | 15.31 | 61 |
| 110 | 0 | 0 | 0 | 0.083 | 15.52 | 60 | 15.42 | 61 |
| 120 | 0 | 0 | 0 | 0.083 | 15.62 | 60 | 15.52 | 60 |
| 130 | 0 | 0 | 0 | 0.083 | 15.72 | 60 | 15.62 | 60 |
| 167 | 0 | 0 | 0 | 0.083 | 16.09 | 58 | 15.99 | 59 |
| 212 | 0 | 0 | 0 | 0.083 | 16.53 | 57 | 16.44 | 57 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 |
| 100.00 | 0-6 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 |
| 125.00 | 0-10 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 150.00 | 1-3 | 1-5 | 1-8 | 2-0 | 2-3 | 2-6 | 2-9 | 3-1 | 3-4 | 3-6 |
| 175.00 | 1-8 | 1-11 | 2-4 | 2-8 | 3-1 | 3-5 | 3-10 | 4-2 | 4-6 | 4-10 |
| 200.00 | 2-2 | 2-7 | 3-0 | 3-6 | 4-0 | 4-6 | 5-0 | 5-5 | 5-10 | 6-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-7 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 125.00 | 0-11 | 1-1 | 1-4 | 1-6 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 150.00 | 1-4 | 1-7 | 1-11 | 2-2 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 |
| 175.00 | 1-10 | 2-2 | 2-7 | 3-0 | 3-5 | 3-9 | 4-1 | 4-6 | 4-9 | 5-1 |
| 200.00 | 2-5 | 2-10 | 3-5 | 3-11 | 4-5 | 4-11 | 5-5 | 5-10 | 6-3 | 6-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.19

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 |
| 125.00 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 |
| 150.00 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 |
| 175.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 |
| 200.00 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 |
| 225.00 | 7-3 | 7-5 | 7-7 | 7-8 | 7-10 | 8-0 | 8-1 | 8-3 | 8-5 | 8-6 |
| 250.00 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-8 |
| 125.00 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-7 | 2-8 |
| 150.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 |
| 175.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 200.00 | 5-10 | 6-0 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 |
| 225.00 | 7-5 | 7-7 | 7-8 | 7-10 | 8-0 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 |
| 250.00 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS

OH816.20

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 |
| 175.00 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 |
| 200.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 |
| 225.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 |
| 250.00 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 |
| 275.00 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 |
| 300.00 | 14-6 | 14-7 | 14-8 | 14-9 | 14-11 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 |
| 325.00 | 17-0 | 17-1 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 |
| 350.00 | 19-8 | 19-10 | 20-0 | 20-2 | 20-4 | 20-5 | 20-7 | 20-9 | 20-10 | 21-0 |
| 375.00 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 | 23-10 | 24-0 | 24-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-10 |
| 175.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 |
| 200.00 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 |
| 225.00 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 |
| 250.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 | 10-9 |
| 275.00 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 |
| 300.00 | 14-7 | 14-8 | 14-9 | 14-11 | 15-0 | 15-1 | 15-2 | 15-4 | 15-5 | 15-6 |
| 325.00 | 17-1 | 17-3 | 17-4 | 17-6 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 | 18-3 |
| 350.00 | 19-10 | 20-0 | 20-2 | 20-3 | 20-5 | 20-7 | 20-9 | 20-10 | 21-0 | 21-2 |
| 375.00 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 | 23-10 | 24-0 | 24-2 | 24-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#6 3-STRAND BARE COPPER TENSION 390 LBS



OH816.21

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #4 3-STRAND BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION

550 LB TENSION ---------- 817.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

550 LB TENSION ---------- 817.7

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

550 LB TENSION ---------- 817.12

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

550 LB TENSION ---------- 817.17


TABLE OF CONTENTS

**REFERENCE**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#4 3-STRAND BARE COPPER TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.212 | 0.48 | 550 | 0.48 | 550* |
| 25 | 0 | 0 | 0 | 0.128 | 0.30 | 529 | 0.30 | 532 |
| 30 | 0 | 0 | 0 | 0.128 | 0.32 | 504 | 0.31 | 511 |
| 40 | 0 | 0 | 0 | 0.128 | 0.35 | 456 | 0.34 | 469 |
| 50 | 0 | 0 | 0 | 0.128 | 0.39 | 408 | 0.38 | 427 |
| 60 | 0 | 0 | 0 | 0.128 | 0.44 | 362 | 0.42 | 385 |
| 70 | 0 | 0 | 0 | 0.128 | 0.50 | 318 | 0.46 | 345 |
| 80 | 0 | 0 | 0 | 0.128 | 0.58 | 278 | 0.52 | 307 |
| 90 | 0 | 0 | 0 | 0.128 | 0.66 | 242 | 0.59 | 271 |
| 100 | 0 | 0 | 0 | 0.128 | 0.76 | 210 | 0.67 | 239 |
| 110 | 0 | 0 | 0 | 0.128 | 0.87 | 184 | 0.76 | 210 |
| 120 | 0 | 0 | 0 | 0.128 | 0.98 | 163 | 0.86 | 186 |
| 130 | 0 | 0 | 0 | 0.128 | 1.10 | 146 | 0.97 | 165 |
| 167 | 0 | 0 | 0 | 0.128 | 1.50 | 107 | 1.37 | 117 |
| 212 | 0 | 0 | 0 | 0.128 | 1.92 | 84 | 1.80 | 89 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.212 | 1.93 | 550 | 1.93 | 550* |
| 25 | 0 | 0 | 0 | 0.128 | 1.34 | 478 | 1.31 | 487 |
| 30 | 0 | 0 | 0 | 0.128 | 1.40 | 458 | 1.37 | 469 |
| 40 | 0 | 0 | 0 | 0.128 | 1.52 | 420 | 1.48 | 434 |
| 50 | 0 | 0 | 0 | 0.128 | 1.67 | 384 | 1.60 | 401 |
| 60 | 0 | 0 | 0 | 0.128 | 1.82 | 352 | 1.73 | 370 |
| 70 | 0 | 0 | 0 | 0.128 | 1.98 | 323 | 1.88 | 341 |
| 80 | 0 | 0 | 0 | 0.128 | 2.15 | 297 | 2.03 | 315 |
| 90 | 0 | 0 | 0 | 0.128 | 2.33 | 275 | 2.19 | 292 |
| 100 | 0 | 0 | 0 | 0.128 | 2.51 | 255 | 2.36 | 271 |
| 110 | 0 | 0 | 0 | 0.128 | 2.69 | 238 | 2.54 | 253 |
| 120 | 0 | 0 | 0 | 0.128 | 2.88 | 223 | 2.71 | 236 |
| 130 | 0 | 0 | 0 | 0.128 | 3.05 | 210 | 2.88 | 222 |
| 167 | 0 | 0 | 0 | 0.128 | 3.69 | 174 | 3.51 | 183 |
| 212 | 0 | 0 | 0 | 0.128 | 4.38 | 146 | 4.21 | 152 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS



TABLE OF CONTENTS

Span = 300 ft

| ign Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 25 | 0 | 8 | 0 | 0.212 | 4.35 | 550 | 4.35 | 550* |
| 25 | 0 | 0 | 0 | 0.128 | 3.37 | 427 | 3.30 | 437 |
| 30 | 0 | 0 | 0 | 0.128 | 3.49 | 413 | 3.40 | 424 |
| 40 | 0 | 0 | 0 | 0.128 | 3.71 | 388 | 3.60 | 400 |
| 50 | 0 | 0 | 0 | 0.128 | 3.95 | 365 | 3.82 | 377 |
| 60 | 0 | 0 | 0 | 0.128 | 4.18 | 345 | 4.04 | 357 |
| 70 | 0 | 0 | 0 | 0.128 | 4.42 | 326 | 4.27 | 338 |
| 80 | 0 | 0 | 0 | 0.128 | 4.66 | 309 | 4.49 | 321 |
| 90 | 0 | 0 | 0 | 0.128 | 4.89 | 295 | 4.72 | 305 |
| 100 | 0 | 0 | 0 | 0.128 | 5.13 | 281 | 4.95 | 291 |
| 110 | 0 | 0 | 0 | 0.128 | 5.36 | 269 | 5.17 | 279 |
| 120 | 0 | 0 | 0 | 0.128 | 5.59 | 258 | 5.40 | 267 |
| 130 | 0 | 0 | 0 | 0.128 | 5.82 | 248 | 5.62 | 257 |
| 167 | 0 | 0 | 0 | 0.128 | 6.62 | 218 | 6.41 | 225 |
| 212 | 0 | 0 | 0 | 0.128 | 7.52 | 192 | 7.32 | 197 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 3-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 |
| 150.00 | 0-8 | 0-9 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 1-11 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-4 | 2-8 | 3-1 | 3-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 200.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 |
| 225.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 3-0 | 3-3 |
| 250.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 |
| 200.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 225.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 |
| 250.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 |
| 225.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 |
| 250.00 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 |
| 275.00 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 300.00 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 |
| 325.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-10 | 6-1 |
| 350.00 | 4-4 | 4-7 | 4-11 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-9 | 7-1 |
| 375.00 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-5 | 7-9 | 8-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 |
| 175.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 200.00 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 |
| 225.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 |
| 250.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 |
| 275.00 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 |
| 300.00 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-4 |
| 325.00 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 | 5-6 | 5-9 | 6-0 | 6-4 |
| 350.00 | 4-5 | 4-9 | 5-1 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-4 |
| 375.00 | 5-1 | 5-5 | 5-10 | 6-2 | 6-6 | 6-11 | 7-3 | 7-8 | 8-0 | 8-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS



OH817.6

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.262 | 0.60 | 550 | 0.60 | 550* |
| 20 | 0 | 0 | 0 | 0.128 | 0.25 | 644 | 0.25 | 644 |
| 30 | 0 | 0 | 0 | 0.128 | 0.27 | 602 | 0.27 | 602 |
| 40 | 0 | 0 | 0 | 0.128 | 0.29 | 560 | 0.29 | 560 |
| 50 | 0 | 0 | 0 | 0.128 | 0.31 | 512 | 0.31 | 517 |
| 60 | 0 | 0 | 0 | 0.128 | 0.35 | 463 | 0.34 | 475 |
| 70 | 0 | 0 | 0 | 0.128 | 0.39 | 415 | 0.37 | 433 |
| 80 | 0 | 0 | 0 | 0.128 | 0.43 | 369 | 0.41 | 392 |
| 90 | 0 | 0 | 0 | 0.128 | 0.49 | 325 | 0.46 | 351 |
| 100 | 0 | 0 | 0 | 0.128 | 0.56 | 284 | 0.51 | 313 |
| 110 | 0 | 0 | 0 | 0.128 | 0.65 | 247 | 0.58 | 277 |
| 120 | 0 | 0 | 0 | 0.128 | 0.74 | 215 | 0.66 | 244 |
| 130 | 0 | 0 | 0 | 0.128 | 0.85 | 188 | 0.75 | 214 |
| 167 | 0 | 0 | 0 | 0.128 | 1.27 | 126 | 1.14 | 141 |
| 212 | 0 | 0 | 0 | 0.128 | 1.72 | 93 | 1.60 | 100 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.262 | 2.38 | 550 | 2.38 | 550* |
| 20 | 0 | 0 | 0 | 0.128 | 1.17 | 547 | 1.17 | 547 |
| 30 | 0 | 0 | 0 | 0.128 | 1.27 | 504 | 1.26 | 510 |
| 40 | 0 | 0 | 0 | 0.128 | 1.38 | 463 | 1.35 | 473 |
| 50 | 0 | 0 | 0 | 0.128 | 1.51 | 424 | 1.46 | 438 |
| 60 | 0 | 0 | 0 | 0.128 | 1.65 | 388 | 1.58 | 404 |
| 70 | 0 | 0 | 0 | 0.128 | 1.80 | 356 | 1.72 | 373 |
| 80 | 0 | 0 | 0 | 0.128 | 1.96 | 326 | 1.86 | 344 |
| 90 | 0 | 0 | 0 | 0.128 | 2.13 | 300 | 2.01 | 318 |
| 100 | 0 | 0 | 0 | 0.128 | 2.31 | 277 | 2.18 | 294 |
| 110 | 0 | 0 | 0 | 0.128 | 2.49 | 257 | 2.34 | 273 |
| 120 | 0 | 0 | 0 | 0.128 | 2.67 | 240 | 2.52 | 255 |
| 130 | 0 | 0 | 0 | 0.128 | 2.85 | 224 | 2.69 | 238 |
| 167 | 0 | 0 | 0 | 0.128 | 3.50 | 183 | 3.32 | 193 |
| 212 | 0 | 0 | 0 | 0.128 | 4.22 | 152 | 4.04 | 159 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.262 | 5.37 | 550 | 5.37 | 550* |
| 20 | 0 | 0 | 0 | 0.128 | 3.40 | 424 | 3.32 | 434 |
| 30 | 0 | 0 | 0 | 0.128 | 3.63 | 397 | 3.52 | 409 |
| 40 | 0 | 0 | 0 | 0.128 | 3.86 | 374 | 3.74 | 386 |
| 50 | 0 | 0 | 0 | 0.128 | 4.09 | 352 | 3.96 | 364 |
| 60 | 0 | 0 | 0 | 0.128 | 4.33 | 333 | 4.18 | 345 |
| 70 | 0 | 0 | 0 | 0.128 | 4.57 | 316 | 4.41 | 327 |
| 80 | 0 | 0 | 0 | 0.128 | 4.80 | 300 | 4.63 | 311 |
| 90 | 0 | 0 | 0 | 0.128 | 5.04 | 286 | 4.86 | 296 |
| 100 | 0 | 0 | 0 | 0.128 | 5.27 | 273 | 5.09 | 283 |
| 110 | 0 | 0 | 0 | 0.128 | 5.50 | 262 | 5.31 | 271 |
| 120 | 0 | 0 | 0 | 0.128 | 5.73 | 252 | 5.54 | 260 |
| 130 | 0 | 0 | 0 | 0.128 | 5.95 | 242 | 5.76 | 250 |
| 167 | 0 | 0 | 0 | 0.128 | 6.74 | 214 | 6.54 | 221 |
| 212 | 0 | 0 | 0 | 0.128 | 7.63 | 189 | 7.43 | 194 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 |
| 175.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 |
| 175.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-9 | 2-0 | 2-3 | 2-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 |
| 225.00 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 |
| 250.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 225.00 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 |
| 250.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 |
| 175.00 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 200.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 |
| 250.00 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 |
| 275.00 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 |
| 300.00 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 |
| 325.00 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 6-0 | 6-3 |
| 350.00 | 4-6 | 4-10 | 5-1 | 5-5 | 5-8 | 6-0 | 6-4 | 6-7 | 6-11 | 7-3 |
| 375.00 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-11 | 7-3 | 7-7 | 7-11 | 8-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 |
| 200.00 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 |
| 225.00 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-1 |
| 250.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 275.00 | 2-10 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 |
| 300.00 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-6 |
| 325.00 | 4-0 | 4-3 | 4-6 | 4-10 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-6 |
| 350.00 | 4-8 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-10 | 7-2 | 7-6 |
| 375.00 | 5-4 | 5-8 | 6-0 | 6-5 | 6-9 | 7-2 | 7-6 | 7-11 | 8-3 | 8-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.412 | 0.94 | 550 | 0.94 | 550* |
| 20 | 0 | 0 | 0 | 0.128 | 0.27 | 582 | 0.27 | 582 |
| 30 | 0 | 0 | 0 | 0.128 | 0.30 | 538 | 0.30 | 539 |
| 40 | 0 | 0 | 0 | 0.128 | 0.33 | 488 | 0.32 | 497 |
| 50 | 0 | 0 | 0 | 0.128 | 0.36 | 440 | 0.35 | 455 |
| 60 | 0 | 0 | 0 | 0.128 | 0.41 | 393 | 0.39 | 413 |
| 70 | 0 | 0 | 0 | 0.128 | 0.46 | 347 | 0.43 | 372 |
| 80 | 0 | 0 | 0 | 0.128 | 0.53 | 305 | 0.48 | 333 |
| 90 | 0 | 0 | 0 | 0.128 | 0.60 | 266 | 0.54 | 295 |
| 100 | 0 | 0 | 0 | 0.128 | 0.69 | 231 | 0.61 | 260 |
| 110 | 0 | 0 | 0 | 0.128 | 0.80 | 201 | 0.70 | 229 |
| 120 | 0 | 0 | 0 | 0.128 | 0.91 | 177 | 0.79 | 202 |
| 130 | 0 | 0 | 0 | 0.128 | 1.02 | 157 | 0.90 | 179 |
| 167 | 0 | 0 | 0 | 0.128 | 1.43 | 112 | 1.30 | 124 |
| 212 | 0 | 0 | 0 | 0.128 | 1.86 | 86 | 1.74 | 92 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.412 | 3.75 | 550 | 3.75 | 550* |
| 20 | 0 | 0 | 0 | 0.128 | 1.95 | 328 | 1.85 | 346 |
| 30 | 0 | 0 | 0 | 0.128 | 2.12 | 301 | 2.00 | 319 |
| 40 | 0 | 0 | 0 | 0.128 | 2.30 | 278 | 2.17 | 296 |
| 50 | 0 | 0 | 0 | 0.128 | 2.48 | 258 | 2.33 | 274 |
| 60 | 0 | 0 | 0 | 0.128 | 2.66 | 240 | 2.51 | 256 |
| 70 | 0 | 0 | 0 | 0.128 | 2.84 | 225 | 2.68 | 239 |
| 80 | 0 | 0 | 0 | 0.128 | 3.02 | 212 | 2.85 | 225 |
| 90 | 0 | 0 | 0 | 0.128 | 3.20 | 200 | 3.03 | 212 |
| 100 | 0 | 0 | 0 | 0.128 | 3.37 | 190 | 3.20 | 200 |
| 110 | 0 | 0 | 0 | 0.128 | 3.54 | 181 | 3.36 | 190 |
| 120 | 0 | 0 | 0 | 0.128 | 3.71 | 173 | 3.53 | 182 |
| 130 | 0 | 0 | 0 | 0.128 | 3.87 | 166 | 3.69 | 174 |
| 167 | 0 | 0 | 0 | 0.128 | 4.43 | 145 | 4.26 | 151 |
| 212 | 0 | 0 | 0 | 0.128 | 5.05 | 127 | 4.89 | 131 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.412 | 8.45 | 550 | 8.45 | 550* |
| 20 | 0 | 0 | 0 | 0.128 | 6.48 | 223 | 6.28 | 230 |
| 30 | 0 | 0 | 0 | 0.128 | 6.69 | 216 | 6.49 | 222 |
| 40 | 0 | 0 | 0 | 0.128 | 6.89 | 209 | 6.69 | 216 |
| 50 | 0 | 0 | 0 | 0.128 | 7.09 | 203 | 6.89 | 209 |
| 60 | 0 | 0 | 0 | 0.128 | 7.29 | 198 | 7.09 | 204 |
| 70 | 0 | 0 | 0 | 0.128 | 7.49 | 193 | 7.29 | 198 |
| 80 | 0 | 0 | 0 | 0.128 | 7.68 | 188 | 7.48 | 193 |
| 90 | 0 | 0 | 0 | 0.128 | 7.86 | 184 | 7.67 | 188 |
| 100 | 0 | 0 | 0 | 0.128 | 8.05 | 179 | 7.85 | 184 |
| 110 | 0 | 0 | 0 | 0.128 | 8.23 | 176 | 8.03 | 180 |
| 120 | 0 | 0 | 0 | 0.128 | 8.41 | 172 | 8.21 | 176 |
| 130 | 0 | 0 | 0 | 0.128 | 8.58 | 168 | 8.39 | 172 |
| 167 | 0 | 0 | 0 | 0.128 | 9.20 | 157 | 9.02 | 160 |
| 212 | 0 | 0 | 0 | 0.128 | 9.92 | 146 | 9.74 | 149 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-6 | 2-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-10 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 | 1-9 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 | 2-5 |
| 200.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 | 2-5 | 2-9 | 3-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 |
| 175.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 200.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 225.00 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 | 4-1 | 4-3 |
| 250.00 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 | 5-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 150.00 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 |
| 175.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 200.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 225.00 | 2-6 | 2-8 | 2-11 | 3-2 | 3-4 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 |
| 250.00 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 | 5-3 | 5-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 |
| 175.00 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 |
| 200.00 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 225.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 |
| 250.00 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 |
| 275.00 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 |
| 300.00 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 | 8-0 |
| 325.00 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 | 8-7 | 8-9 | 9-0 | 9-3 | 9-5 |
| 350.00 | 8-7 | 8-10 | 9-1 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 |
| 375.00 | 9-10 | 10-2 | 10-6 | 10-9 | 11-1 | 11-5 | 11-8 | 12-0 | 12-3 | 12-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 |
| 175.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 225.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-8 |
| 250.00 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 |
| 275.00 | 5-5 | 5-7 | 5-9 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 |
| 300.00 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 | 8-1 | 8-3 |
| 325.00 | 7-7 | 7-10 | 8-1 | 8-4 | 8-7 | 8-9 | 9-0 | 9-3 | 9-5 | 9-8 |
| 350.00 | 8-10 | 9-1 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 |
| 375.00 | 10-1 | 10-5 | 10-9 | 11-1 | 11-5 | 11-8 | 12-0 | 12-4 | 12-7 | 12-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.679 | 1.54 | 550 | 1.54 | 550* |
| 20 | 0 | 0 | 0 | 0.128 | 0.42 | 380 | 0.40 | 402 |
| 30 | 0 | 0 | 0 | 0.128 | 0.48 | 335 | 0.44 | 361 |
| 40 | 0 | 0 | 0 | 0.128 | 0.55 | 294 | 0.50 | 322 |
| 50 | 0 | 0 | 0 | 0.128 | 0.63 | 255 | 0.56 | 285 |
| 60 | 0 | 0 | 0 | 0.128 | 0.72 | 222 | 0.64 | 251 |
| 70 | 0 | 0 | 0 | 0.128 | 0.83 | 194 | 0.72 | 221 |
| 80 | 0 | 0 | 0 | 0.128 | 0.94 | 171 | 0.82 | 195 |
| 90 | 0 | 0 | 0 | 0.128 | 1.05 | 152 | 0.93 | 173 |
| 100 | 0 | 0 | 0 | 0.128 | 1.16 | 137 | 1.03 | 155 |
| 110 | 0 | 0 | 0 | 0.128 | 1.28 | 125 | 1.14 | 140 |
| 120 | 0 | 0 | 0 | 0.128 | 1.38 | 116 | 1.25 | 128 |
| 130 | 0 | 0 | 0 | 0.128 | 1.49 | 108 | 1.36 | 118 |
| 167 | 0 | 0 | 0 | 0.128 | 1.84 | 87 | 1.72 | 93 |
| 212 | 0 | 0 | 0 | 0.128 | 2.21 | 73 | 2.10 | 76 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.679 | 6.20 | 550 | 6.20 | 550* |
| 20 | 0 | 0 | 0 | 0.128 | 4.78 | 134 | 4.62 | 139 |
| 30 | 0 | 0 | 0 | 0.128 | 4.92 | 130 | 4.75 | 135 |
| 40 | 0 | 0 | 0 | 0.128 | 5.05 | 127 | 4.89 | 131 |
| 50 | 0 | 0 | 0 | 0.128 | 5.18 | 124 | 5.02 | 128 |
| 60 | 0 | 0 | 0 | 0.128 | 5.31 | 121 | 5.15 | 125 |
| 70 | 0 | 0 | 0 | 0.128 | 5.43 | 118 | 5.27 | 122 |
| 80 | 0 | 0 | 0 | 0.128 | 5.55 | 116 | 5.40 | 119 |
| 90 | 0 | 0 | 0 | 0.128 | 5.67 | 113 | 5.52 | 116 |
| 100 | 0 | 0 | 0 | 0.128 | 5.79 | 111 | 5.64 | 114 |
| 110 | 0 | 0 | 0 | 0.128 | 5.91 | 109 | 5.76 | 112 |
| 120 | 0 | 0 | 0 | 0.128 | 6.02 | 107 | 5.87 | 109 |
| 130 | 0 | 0 | 0 | 0.128 | 6.13 | 105 | 5.99 | 107 |
| 167 | 0 | 0 | 0 | 0.128 | 6.53 | 98 | 6.39 | 101 |
| 212 | 0 | 0 | 0 | 0.128 | 6.99 | 92 | 6.86 | 94 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.679 | 14.01 | 550 | 14.01 | 550* |
| 20 | 0 | 0 | 0 | 0.128 | 12.65 | 115 | 12.49 | 116 |
| 30 | 0 | 0 | 0 | 0.128 | 12.77 | 114 | 12.61 | 115 |
| 40 | 0 | 0 | 0 | 0.128 | 12.89 | 113 | 12.74 | 114 |
| 50 | 0 | 0 | 0 | 0.128 | 13.01 | 111 | 12.86 | 113 |
| 60 | 0 | 0 | 0 | 0.128 | 13.13 | 110 | 12.98 | 112 |
| 70 | 0 | 0 | 0 | 0.128 | 13.25 | 110 | 13.10 | 111 |
| 80 | 0 | 0 | 0 | 0.128 | 13.37 | 109 | 13.22 | 110 |
| 90 | 0 | 0 | 0 | 0.128 | 13.49 | 108 | 13.34 | 109 |
| 100 | 0 | 0 | 0 | 0.128 | 13.60 | 107 | 13.45 | 108 |
| 110 | 0 | 0 | 0 | 0.128 | 13.72 | 106 | 13.57 | 107 |
| 120 | 0 | 0 | 0 | 0.128 | 13.83 | 105 | 13.68 | 106 |
| 130 | 0 | 0 | 0 | 0.128 | 13.94 | 104 | 13.80 | 105 |
| 167 | 0 | 0 | 0 | 0.128 | 14.36 | 101 | 14.21 | 102 |
| 212 | 0 | 0 | 0 | 0.128 | 14.84 | 98 | 14.70 | 99 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 1-10 | 2-1 | 2-4 | 2-7 |
| 175.00 | 1-3 | 1-4 | 1-6 | 1-9 | 1-11 | 2-3 | 2-6 | 2-10 | 3-2 | 3-6 |
| 200.00 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-3 | 3-8 | 4-2 | 4-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 100.00 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 |
| 125.00 | 0-8 | 0-9 | 0-10 | 1-0 | 1-2 | 1-3 | 1-6 | 1-8 | 1-10 | 2-0 |
| 150.00 | 0-11 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 | 2-7 | 2-10 |
| 175.00 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-6 | 2-10 | 3-3 | 3-7 | 3-11 |
| 200.00 | 1-8 | 1-11 | 2-2 | 2-6 | 2-11 | 3-4 | 3-9 | 4-2 | 4-8 | 5-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 |
| 125.00 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 |
| 150.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 |
| 175.00 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 |
| 200.00 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 |
| 225.00 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-3 |
| 250.00 | 7-3 | 7-5 | 7-8 | 7-10 | 8-1 | 8-3 | 8-5 | 8-8 | 8-10 | 9-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 |
| 125.00 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 150.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 |
| 175.00 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 200.00 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 | 5-11 |
| 225.00 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-0 | 7-2 | 7-4 | 7-6 |
| 250.00 | 7-6 | 7-8 | 7-11 | 8-1 | 8-4 | 8-6 | 8-8 | 8-10 | 9-1 | 9-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS



OH817.20

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 |
| 175.00 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 200.00 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-0 |
| 225.00 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 |
| 250.00 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 |
| 275.00 | 10-6 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 |
| 300.00 | 12-6 | 12-7 | 12-9 | 12-10 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-7 |
| 325.00 | 14-8 | 14-10 | 14-11 | 15-1 | 15-3 | 15-5 | 15-6 | 15-8 | 15-10 | 15-11 |
| 350.00 | 17-0 | 17-2 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 |
| 375.00 | 19-6 | 19-9 | 19-11 | 20-1 | 20-4 | 20-6 | 20-8 | 20-10 | 21-1 | 21-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 |
| 175.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 |
| 200.00 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 |
| 225.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 |
| 250.00 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 275.00 | 10-7 | 10-9 | 10-10 | 10-11 | 11-0 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 |
| 300.00 | 12-8 | 12-9 | 12-11 | 13-0 | 13-2 | 13-3 | 13-4 | 13-6 | 13-7 | 13-9 |
| 325.00 | 14-10 | 15-0 | 15-2 | 15-3 | 15-5 | 15-7 | 15-8 | 15-10 | 16-0 | 16-1 |
| 350.00 | 17-3 | 17-5 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-4 | 18-6 | 18-8 |
| 375.00 | 19-9 | 20-0 | 20-2 | 20-4 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS



OH817.21

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 3-STRAND BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION

840 LB TENSION ---------- 818.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

840 LB TENSION ---------- 818.7

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

840 LB TENSION ---------- 818.12

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

840 LB TENSION ---------- 818.17


TABLE OF CONTENTS

**REFERENCE**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#2 3-STRAND BARE COPPER TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.294 | 0.44 | 840 | 0.44 | 840* |
| 25 | 0 | 0 | 0 | 0.203 | 0.31 | 818 | 0.31 | 821 |
| 30 | 0 | 0 | 0 | 0.203 | 0.33 | 779 | 0.32 | 787 |
| 40 | 0 | 0 | 0 | 0.203 | 0.36 | 702 | 0.35 | 721 |
| 50 | 0 | 0 | 0 | 0.203 | 0.40 | 628 | 0.39 | 655 |
| 60 | 0 | 0 | 0 | 0.203 | 0.46 | 556 | 0.43 | 591 |
| 70 | 0 | 0 | 0 | 0.203 | 0.52 | 489 | 0.48 | 528 |
| 80 | 0 | 0 | 0 | 0.203 | 0.60 | 426 | 0.54 | 469 |
| 90 | 0 | 0 | 0 | 0.203 | 0.68 | 371 | 0.61 | 414 |
| 100 | 0 | 0 | 0 | 0.203 | 0.79 | 323 | 0.70 | 364 |
| 110 | 0 | 0 | 0 | 0.203 | 0.89 | 284 | 0.79 | 321 |
| 120 | 0 | 0 | 0 | 0.203 | 1.01 | 252 | 0.89 | 284 |
| 130 | 0 | 0 | 0 | 0.203 | 1.12 | 226 | 1.00 | 254 |
| 167 | 0 | 0 | 0 | 0.203 | 1.52 | 167 | 1.40 | 182 |
| 212 | 0 | 0 | 0 | 0.203 | 1.94 | 131 | 1.82 | 139 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.294 | 1.75 | 840 | 1.75 | 840* |
| 25 | 0 | 0 | 0 | 0.203 | 1.33 | 764 | 1.31 | 773 |
| 30 | 0 | 0 | 0 | 0.203 | 1.39 | 732 | 1.36 | 744 |
| 40 | 0 | 0 | 0 | 0.203 | 1.51 | 671 | 1.47 | 689 |
| 50 | 0 | 0 | 0 | 0.203 | 1.65 | 615 | 1.59 | 637 |
| 60 | 0 | 0 | 0 | 0.203 | 1.80 | 563 | 1.73 | 588 |
| 70 | 0 | 0 | 0 | 0.203 | 1.97 | 516 | 1.87 | 542 |
| 80 | 0 | 0 | 0 | 0.203 | 2.14 | 475 | 2.03 | 501 |
| 90 | 0 | 0 | 0 | 0.203 | 2.31 | 439 | 2.19 | 464 |
| 100 | 0 | 0 | 0 | 0.203 | 2.49 | 407 | 2.36 | 431 |
| 110 | 0 | 0 | 0 | 0.203 | 2.68 | 380 | 2.53 | 402 |
| 120 | 0 | 0 | 0 | 0.203 | 2.86 | 356 | 2.70 | 376 |
| 130 | 0 | 0 | 0 | 0.203 | 3.03 | 335 | 2.87 | 353 |
| 167 | 0 | 0 | 0 | 0.203 | 3.67 | 277 | 3.50 | 290 |
| 212 | 0 | 0 | 0 | 0.203 | 4.36 | 233 | 4.20 | 242 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.294 | 3.95 | 840 | 3.95 | 840* |
| 25 | 0 | 0 | 0 | 0.203 | 3.23 | 707 | 3.18 | 719 |
| 30 | 0 | 0 | 0 | 0.203 | 3.34 | 684 | 3.28 | 697 |
| 40 | 0 | 0 | 0 | 0.203 | 3.56 | 642 | 3.48 | 657 |
| 50 | 0 | 0 | 0 | 0.203 | 3.79 | 603 | 3.69 | 619 |
| 60 | 0 | 0 | 0 | 0.203 | 4.02 | 568 | 3.91 | 585 |
| 70 | 0 | 0 | 0 | 0.203 | 4.26 | 537 | 4.13 | 554 |
| 80 | 0 | 0 | 0 | 0.203 | 4.50 | 508 | 4.35 | 525 |
| 90 | 0 | 0 | 0 | 0.203 | 4.73 | 483 | 4.58 | 499 |
| 100 | 0 | 0 | 0 | 0.203 | 4.97 | 460 | 4.81 | 475 |
| 110 | 0 | 0 | 0 | 0.203 | 5.20 | 439 | 5.03 | 454 |
| 120 | 0 | 0 | 0 | 0.203 | 5.43 | 421 | 5.26 | 435 |
| 130 | 0 | 0 | 0 | 0.203 | 5.66 | 404 | 5.48 | 417 |
| 167 | 0 | 0 | 0 | 0.203 | 6.47 | 354 | 6.28 | 364 |
| 212 | 0 | 0 | 0 | 0.203 | 7.38 | 310 | 7.19 | 318 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-9 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-9 | 3-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 |
| 200.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 | 2-1 | 2-5 | 2-9 | 3-2 | 3-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 200.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 |
| 225.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 |
| 250.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150.00 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 |
| 200.00 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 225.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 |
| 250.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 175.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 |
| 225.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 |
| 250.00 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 275.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 |
| 300.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 | 4-10 | 5-0 |
| 325.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 |
| 350.00 | 4-2 | 4-6 | 4-9 | 5-0 | 5-4 | 5-7 | 5-11 | 6-3 | 6-7 | 6-10 |
| 375.00 | 4-10 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-10 | 7-2 | 7-6 | 7-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 |
| 225.00 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 |
| 250.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 |
| 275.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 300.00 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 |
| 325.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-9 | 5-0 | 5-3 | 5-7 | 5-10 | 6-1 |
| 350.00 | 4-3 | 4-7 | 4-10 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-9 | 7-1 |
| 375.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-8 | 7-0 | 7-5 | 7-9 | 8-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.352 | 0.52 | 840 | 0.52 | 840* |
| 20 | 0 | 0 | 0 | 0.203 | 0.25 | 1005 | 0.25 | 1005 |
| 30 | 0 | 0 | 0 | 0.203 | 0.27 | 939 | 0.27 | 939 |
| 40 | 0 | 0 | 0 | 0.203 | 0.29 | 872 | 0.29 | 872 |
| 50 | 0 | 0 | 0 | 0.203 | 0.32 | 799 | 0.32 | 805 |
| 60 | 0 | 0 | 0 | 0.203 | 0.35 | 723 | 0.34 | 738 |
| 70 | 0 | 0 | 0 | 0.203 | 0.39 | 648 | 0.38 | 672 |
| 80 | 0 | 0 | 0 | 0.203 | 0.44 | 575 | 0.42 | 607 |
| 90 | 0 | 0 | 0 | 0.203 | 0.50 | 506 | 0.47 | 545 |
| 100 | 0 | 0 | 0 | 0.203 | 0.57 | 442 | 0.52 | 484 |
| 110 | 0 | 0 | 0 | 0.203 | 0.66 | 385 | 0.59 | 428 |
| 120 | 0 | 0 | 0 | 0.203 | 0.76 | 335 | 0.67 | 377 |
| 130 | 0 | 0 | 0 | 0.203 | 0.87 | 293 | 0.76 | 332 |
| 167 | 0 | 0 | 0 | 0.203 | 1.28 | 198 | 1.16 | 220 |
| 212 | 0 | 0 | 0 | 0.203 | 1.73 | 146 | 1.62 | 157 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.352 | 2.10 | 840 | 2.10 | 840* |
| 20 | 0 | 0 | 0 | 0.203 | 1.13 | 895 | 1.13 | 895 |
| 30 | 0 | 0 | 0 | 0.203 | 1.22 | 834 | 1.22 | 835 |
| 40 | 0 | 0 | 0 | 0.203 | 1.32 | 768 | 1.31 | 776 |
| 50 | 0 | 0 | 0 | 0.203 | 1.44 | 705 | 1.41 | 720 |
| 60 | 0 | 0 | 0 | 0.203 | 1.57 | 646 | 1.53 | 666 |
| 70 | 0 | 0 | 0 | 0.203 | 1.72 | 591 | 1.65 | 615 |
| 80 | 0 | 0 | 0 | 0.203 | 1.87 | 542 | 1.79 | 567 |
| 90 | 0 | 0 | 0 | 0.203 | 2.04 | 498 | 1.94 | 524 |
| 100 | 0 | 0 | 0 | 0.203 | 2.21 | 459 | 2.10 | 484 |
| 110 | 0 | 0 | 0 | 0.203 | 2.39 | 424 | 2.26 | 449 |
| 120 | 0 | 0 | 0 | 0.203 | 2.57 | 395 | 2.43 | 418 |
| 130 | 0 | 0 | 0 | 0.203 | 2.76 | 369 | 2.60 | 390 |
| 167 | 0 | 0 | 0 | 0.203 | 3.41 | 298 | 3.24 | 314 |
| 212 | 0 | 0 | 0 | 0.203 | 4.13 | 246 | 3.97 | 256 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.352 | 4.72 | 840 | 4.72 | 840* |
| 20 | 0 | 0 | 0 | 0.203 | 3.05 | 750 | 3.01 | 758 |
| 30 | 0 | 0 | 0 | 0.203 | 3.26 | 701 | 3.20 | 713 |
| 40 | 0 | 0 | 0 | 0.203 | 3.48 | 657 | 3.40 | 672 |
| 50 | 0 | 0 | 0 | 0.203 | 3.70 | 617 | 3.61 | 633 |
| 60 | 0 | 0 | 0 | 0.203 | 3.93 | 581 | 3.82 | 598 |
| 70 | 0 | 0 | 0 | 0.203 | 4.17 | 548 | 4.04 | 565 |
| 80 | 0 | 0 | 0 | 0.203 | 4.41 | 519 | 4.27 | 535 |
| 90 | 0 | 0 | 0 | 0.203 | 4.64 | 492 | 4.49 | 509 |
| 100 | 0 | 0 | 0 | 0.203 | 4.88 | 468 | 4.72 | 484 |
| 110 | 0 | 0 | 0 | 0.203 | 5.12 | 447 | 4.95 | 462 |
| 120 | 0 | 0 | 0 | 0.203 | 5.35 | 428 | 5.18 | 442 |
| 130 | 0 | 0 | 0 | 0.203 | 5.58 | 410 | 5.40 | 424 |
| 167 | 0 | 0 | 0 | 0.203 | 6.39 | 358 | 6.20 | 369 |
| 212 | 0 | 0 | 0 | 0.203 | 7.31 | 313 | 7.12 | 321 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 125.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-11 | 1-0 | 1-2 | 1-3 | 1-6 |
| 175.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-4 | 2-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 |
| 225.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 |
| 250.00 | 1-9 | 1-11 | 2-1 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-3 | 2-5 |
| 225.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-0 |
| 250.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 |
| 200.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 |
| 250.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 |
| 275.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 | 4-0 | 4-2 |
| 300.00 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-1 | 4-3 | 4-6 | 4-9 | 4-11 |
| 325.00 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-7 | 5-10 |
| 350.00 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 | 5-6 | 5-10 | 6-1 | 6-5 | 6-9 |
| 375.00 | 4-9 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-5 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 |
| 175.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 200.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 |
| 225.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 |
| 250.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 |
| 275.00 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-4 |
| 300.00 | 3-1 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 |
| 325.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-11 | 5-2 | 5-5 | 5-9 | 6-0 |
| 350.00 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 |
| 375.00 | 4-9 | 5-1 | 5-5 | 5-9 | 6-2 | 6-6 | 6-11 | 7-3 | 7-8 | 8-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.533 | 0.79 | 840 | 0.79 | 840* |
| 20 | 0 | 0 | 0 | 0.203 | 0.27 | 938 | 0.27 | 938 |
| 30 | 0 | 0 | 0 | 0.203 | 0.29 | 871 | 0.29 | 871 |
| 40 | 0 | 0 | 0 | 0.203 | 0.32 | 799 | 0.32 | 805 |
| 50 | 0 | 0 | 0 | 0.203 | 0.35 | 722 | 0.34 | 738 |
| 60 | 0 | 0 | 0 | 0.203 | 0.39 | 647 | 0.38 | 672 |
| 70 | 0 | 0 | 0 | 0.203 | 0.44 | 574 | 0.42 | 607 |
| 80 | 0 | 0 | 0 | 0.203 | 0.50 | 505 | 0.47 | 544 |
| 90 | 0 | 0 | 0 | 0.203 | 0.57 | 442 | 0.52 | 484 |
| 100 | 0 | 0 | 0 | 0.203 | 0.66 | 384 | 0.59 | 428 |
| 110 | 0 | 0 | 0 | 0.203 | 0.76 | 335 | 0.67 | 377 |
| 120 | 0 | 0 | 0 | 0.203 | 0.87 | 293 | 0.77 | 332 |
| 130 | 0 | 0 | 0 | 0.203 | 0.98 | 259 | 0.87 | 293 |
| 167 | 0 | 0 | 0 | 0.203 | 1.39 | 183 | 1.26 | 201 |
| 212 | 0 | 0 | 0 | 0.203 | 1.83 | 139 | 1.71 | 149 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.533 | 3.18 | 840 | 3.18 | 840* |
| 20 | 0 | 0 | 0 | 0.203 | 1.58 | 643 | 1.53 | 663 |
| 30 | 0 | 0 | 0 | 0.203 | 1.72 | 589 | 1.66 | 613 |
| 40 | 0 | 0 | 0 | 0.203 | 1.88 | 540 | 1.80 | 565 |
| 50 | 0 | 0 | 0 | 0.203 | 2.05 | 496 | 1.95 | 522 |
| 60 | 0 | 0 | 0 | 0.203 | 2.22 | 457 | 2.10 | 483 |
| 70 | 0 | 0 | 0 | 0.203 | 2.40 | 423 | 2.27 | 448 |
| 80 | 0 | 0 | 0 | 0.203 | 2.58 | 393 | 2.44 | 416 |
| 90 | 0 | 0 | 0 | 0.203 | 2.76 | 368 | 2.61 | 389 |
| 100 | 0 | 0 | 0 | 0.203 | 2.94 | 345 | 2.78 | 365 |
| 110 | 0 | 0 | 0 | 0.203 | 3.12 | 326 | 2.96 | 343 |
| 120 | 0 | 0 | 0 | 0.203 | 3.29 | 309 | 3.13 | 325 |
| 130 | 0 | 0 | 0 | 0.203 | 3.46 | 293 | 3.30 | 308 |
| 167 | 0 | 0 | 0 | 0.203 | 4.06 | 250 | 3.89 | 261 |
| 212 | 0 | 0 | 0 | 0.203 | 4.72 | 216 | 4.56 | 223 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.533 | 7.16 | 840 | 7.16 | 840* |
| 20 | 0 | 0 | 0 | 0.203 | 5.14 | 445 | 4.98 | 459 |
| 30 | 0 | 0 | 0 | 0.203 | 5.37 | 425 | 5.20 | 440 |
| 40 | 0 | 0 | 0 | 0.203 | 5.60 | 408 | 5.43 | 422 |
| 50 | 0 | 0 | 0 | 0.203 | 5.83 | 392 | 5.65 | 405 |
| 60 | 0 | 0 | 0 | 0.203 | 6.05 | 378 | 5.86 | 390 |
| 70 | 0 | 0 | 0 | 0.203 | 6.27 | 365 | 6.08 | 376 |
| 80 | 0 | 0 | 0 | 0.203 | 6.48 | 353 | 6.29 | 364 |
| 90 | 0 | 0 | 0 | 0.203 | 6.69 | 342 | 6.50 | 352 |
| 100 | 0 | 0 | 0 | 0.203 | 6.89 | 332 | 6.70 | 341 |
| 110 | 0 | 0 | 0 | 0.203 | 7.09 | 323 | 6.91 | 331 |
| 120 | 0 | 0 | 0 | 0.203 | 7.29 | 314 | 7.10 | 322 |
| 130 | 0 | 0 | 0 | 0.203 | 7.49 | 306 | 7.30 | 314 |
| 167 | 0 | 0 | 0 | 0.203 | 8.17 | 280 | 7.99 | 287 |
| 212 | 0 | 0 | 0 | 0.203 | 8.95 | 256 | 8.78 | 261 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 |
| 150.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 |
| 175.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-4 | 2-8 | 3-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 175.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 |
| 200.00 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 225.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 |
| 250.00 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 175.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 |
| 200.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 |
| 225.00 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 | 3-6 | 3-9 | 3-11 |
| 250.00 | 2-6 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 |
| 175.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 |
| 200.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 |
| 225.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 |
| 250.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-10 |
| 275.00 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 |
| 300.00 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 |
| 325.00 | 5-10 | 6-1 | 6-4 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 |
| 350.00 | 6-9 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 | 8-7 | 8-10 | 9-2 | 9-5 |
| 375.00 | 7-9 | 8-2 | 8-6 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 |
| 175.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200.00 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 |
| 225.00 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 |
| 250.00 | 3-7 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 |
| 275.00 | 4-4 | 4-6 | 4-8 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 6-0 |
| 300.00 | 5-2 | 5-4 | 5-7 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 |
| 325.00 | 6-0 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 |
| 350.00 | 7-0 | 7-4 | 7-8 | 7-11 | 8-3 | 8-6 | 8-10 | 9-1 | 9-5 | 9-8 |
| 375.00 | 8-0 | 8-5 | 8-9 | 9-1 | 9-5 | 9-10 | 10-2 | 10-5 | 10-9 | 11-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.864 | 1.29 | 840 | 1.29 | 840* |
| 20 | 0 | 0 | 0 | 0.203 | 0.35 | 729 | 0.34 | 744 |
| 30 | 0 | 0 | 0 | 0.203 | 0.39 | 654 | 0.37 | 678 |
| 40 | 0 | 0 | 0 | 0.203 | 0.44 | 581 | 0.41 | 613 |
| 50 | 0 | 0 | 0 | 0.203 | 0.50 | 512 | 0.46 | 550 |
| 60 | 0 | 0 | 0 | 0.203 | 0.57 | 447 | 0.52 | 489 |
| 70 | 0 | 0 | 0 | 0.203 | 0.65 | 389 | 0.59 | 433 |
| 80 | 0 | 0 | 0 | 0.203 | 0.75 | 339 | 0.67 | 381 |
| 90 | 0 | 0 | 0 | 0.203 | 0.86 | 297 | 0.76 | 335 |
| 100 | 0 | 0 | 0 | 0.203 | 0.97 | 262 | 0.86 | 296 |
| 110 | 0 | 0 | 0 | 0.203 | 1.08 | 235 | 0.96 | 264 |
| 120 | 0 | 0 | 0 | 0.203 | 1.20 | 212 | 1.07 | 237 |
| 130 | 0 | 0 | 0 | 0.203 | 1.31 | 194 | 1.18 | 215 |
| 167 | 0 | 0 | 0 | 0.203 | 1.68 | 151 | 1.56 | 163 |
| 212 | 0 | 0 | 0 | 0.203 | 2.07 | 123 | 1.96 | 129 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.864 | 5.16 | 840 | 5.16 | 840* |
| 20 | 0 | 0 | 0 | 0.203 | 3.58 | 284 | 3.41 | 298 |
| 30 | 0 | 0 | 0 | 0.203 | 3.74 | 272 | 3.57 | 284 |
| 40 | 0 | 0 | 0 | 0.203 | 3.90 | 261 | 3.73 | 272 |
| 50 | 0 | 0 | 0 | 0.203 | 4.06 | 251 | 3.89 | 261 |
| 60 | 0 | 0 | 0 | 0.203 | 4.21 | 242 | 4.04 | 251 |
| 70 | 0 | 0 | 0 | 0.203 | 4.36 | 233 | 4.19 | 242 |
| 80 | 0 | 0 | 0 | 0.203 | 4.50 | 226 | 4.34 | 234 |
| 90 | 0 | 0 | 0 | 0.203 | 4.64 | 219 | 4.48 | 227 |
| 100 | 0 | 0 | 0 | 0.203 | 4.78 | 213 | 4.62 | 220 |
| 110 | 0 | 0 | 0 | 0.203 | 4.92 | 207 | 4.76 | 214 |
| 120 | 0 | 0 | 0 | 0.203 | 5.05 | 201 | 4.90 | 208 |
| 130 | 0 | 0 | 0 | 0.203 | 5.18 | 196 | 5.03 | 202 |
| 167 | 0 | 0 | 0 | 0.203 | 5.64 | 181 | 5.49 | 185 |
| 212 | 0 | 0 | 0 | 0.203 | 6.16 | 166 | 6.02 | 169 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
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| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 0.864 | 11.64 | 840 | 11.64 | 840* |
| 20 | 0 | 0 | 0 | 0.203 | 10.11 | 227 | 9.94 | 231 |
| 30 | 0 | 0 | 0 | 0.203 | 10.26 | 224 | 10.09 | 227 |
| 40 | 0 | 0 | 0 | 0.203 | 10.41 | 220 | 10.24 | 224 |
| 50 | 0 | 0 | 0 | 0.203 | 10.55 | 217 | 10.39 | 221 |
| 60 | 0 | 0 | 0 | 0.203 | 10.70 | 215 | 10.53 | 218 |
| 70 | 0 | 0 | 0 | 0.203 | 10.84 | 212 | 10.68 | 215 |
| 80 | 0 | 0 | 0 | 0.203 | 10.98 | 209 | 10.82 | 212 |
| 90 | 0 | 0 | 0 | 0.203 | 11.12 | 206 | 10.96 | 209 |
| 100 | 0 | 0 | 0 | 0.203 | 11.26 | 204 | 11.10 | 207 |
| 110 | 0 | 0 | 0 | 0.203 | 11.40 | 202 | 11.24 | 204 |
| 120 | 0 | 0 | 0 | 0.203 | 11.53 | 199 | 11.37 | 202 |
| 130 | 0 | 0 | 0 | 0.203 | 11.67 | 197 | 11.51 | 200 |
| 167 | 0 | 0 | 0 | 0.203 | 12.15 | 189 | 12.00 | 192 |
| 212 | 0 | 0 | 0 | 0.203 | 12.71 | 181 | 12.57 | 183 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 |
| 100.00 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 125.00 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 |
| 150.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 | 2-2 |
| 175.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-10 | 2-0 | 2-4 | 2-7 | 2-11 |
| 200.00 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 3-0 | 3-5 | 3-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 |
| 125.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 |
| 150.00 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 |
| 175.00 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-7 | 3-0 | 3-4 |
| 200.00 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 | 2-7 | 3-0 | 3-5 | 3-10 | 4-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
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Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 |
| 150.00 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 175.00 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-8 |
| 200.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 |
| 225.00 | 4-4 | 4-6 | 4-9 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 |
| 250.00 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-9 | 7-0 | 7-3 | 7-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 150.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 175.00 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 |
| 200.00 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 |
| 225.00 | 4-6 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 |
| 250.00 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-0 | 7-3 | 7-6 | 7-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 |
| 175.00 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 |
| 200.00 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 |
| 225.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 250.00 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-10 |
| 275.00 | 8-4 | 8-6 | 8-7 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 |
| 300.00 | 9-11 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 |
| 325.00 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 |
| 350.00 | 13-6 | 13-9 | 13-11 | 14-2 | 14-4 | 14-7 | 14-9 | 14-11 | 15-1 | 15-4 |
| 375.00 | 15-7 | 15-9 | 16-0 | 16-3 | 16-6 | 16-8 | 16-11 | 17-2 | 17-4 | 17-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 |
| 175.00 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 |
| 200.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 |
| 225.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 250.00 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 |
| 275.00 | 8-6 | 8-7 | 8-9 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 |
| 300.00 | 10-1 | 10-3 | 10-5 | 10-7 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 | 11-5 |
| 325.00 | 11-10 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 |
| 350.00 | 13-9 | 14-0 | 14-2 | 14-4 | 14-7 | 14-9 | 15-0 | 15-2 | 15-4 | 15-6 |
| 375.00 | 15-10 | 16-1 | 16-3 | 16-6 | 16-9 | 16-11 | 17-2 | 17-5 | 17-7 | 17-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS



OH818.21

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1/0 BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION

1340 LB TENSION ---------- 819.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1340 LB TENSION ---------- 819.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1340 LB TENSION ---------- 819.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1340 LB TENSION ---------- 819.26


TABLE OF CONTENTS

**REFERENCE**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

1/0 BARE COPPER TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.408 | 0.38 | 1340 | 0.38 | 1340* |
| 25 | 0 | 0 | 0 | 0.326 | 0.31 | 1322 | 0.31 | 1324 |
| 30 | 0 | 0 | 0 | 0.326 | 0.32 | 1260 | 0.32 | 1271 |
| 40 | 0 | 0 | 0 | 0.326 | 0.36 | 1137 | 0.35 | 1165 |
| 50 | 0 | 0 | 0 | 0.326 | 0.40 | 1018 | 0.38 | 1060 |
| 60 | 0 | 0 | 0 | 0.326 | 0.45 | 904 | 0.43 | 957 |
| 70 | 0 | 0 | 0 | 0.326 | 0.51 | 795 | 0.48 | 857 |
| 80 | 0 | 0 | 0 | 0.326 | 0.59 | 694 | 0.53 | 762 |
| 90 | 0 | 0 | 0 | 0.326 | 0.67 | 604 | 0.61 | 673 |
| 100 | 0 | 0 | 0 | 0.326 | 0.77 | 527 | 0.69 | 593 |
| 110 | 0 | 0 | 0 | 0.326 | 0.88 | 462 | 0.78 | 523 |
| 120 | 0 | 0 | 0 | 0.326 | 0.99 | 410 | 0.88 | 463 |
| 130 | 0 | 0 | 0 | 0.326 | 1.11 | 368 | 0.99 | 413 |
| 167 | 0 | 0 | 0 | 0.326 | 1.51 | 271 | 1.38 | 295 |
| 212 | 0 | 0 | 0 | 0.326 | 1.92 | 212 | 1.81 | 225 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.408 | 1.52 | 1340 | 1.52 | 1340* |
| 25 | 0 | 0 | 0 | 0.326 | 1.28 | 1276 | 1.27 | 1284 |
| 30 | 0 | 0 | 0 | 0.326 | 1.33 | 1224 | 1.32 | 1238 |
| 40 | 0 | 0 | 0 | 0.326 | 1.45 | 1124 | 1.42 | 1148 |
| 50 | 0 | 0 | 0 | 0.326 | 1.58 | 1030 | 1.54 | 1062 |
| 60 | 0 | 0 | 0 | 0.326 | 1.73 | 944 | 1.66 | 981 |
| 70 | 0 | 0 | 0 | 0.326 | 1.88 | 865 | 1.80 | 905 |
| 80 | 0 | 0 | 0 | 0.326 | 2.05 | 795 | 1.95 | 836 |
| 90 | 0 | 0 | 0 | 0.326 | 2.22 | 733 | 2.11 | 774 |
| 100 | 0 | 0 | 0 | 0.326 | 2.40 | 679 | 2.27 | 718 |
| 110 | 0 | 0 | 0 | 0.326 | 2.58 | 631 | 2.44 | 668 |
| 120 | 0 | 0 | 0 | 0.326 | 2.76 | 590 | 2.61 | 624 |
| 130 | 0 | 0 | 0 | 0.326 | 2.94 | 554 | 2.79 | 585 |
| 167 | 0 | 0 | 0 | 0.326 | 3.58 | 456 | 3.41 | 478 |
| 212 | 0 | 0 | 0 | 0.326 | 4.29 | 381 | 4.12 | 396 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.408 | 3.43 | 1340 | 3.43 | 1340* |
| 25 | 0 | 0 | 0 | 0.326 | 2.99 | 1225 | 2.97 | 1236 |
| 30 | 0 | 0 | 0 | 0.326 | 3.10 | 1185 | 3.06 | 1200 |
| 40 | 0 | 0 | 0 | 0.326 | 3.31 | 1110 | 3.25 | 1129 |
| 50 | 0 | 0 | 0 | 0.326 | 3.53 | 1041 | 3.45 | 1064 |
| 60 | 0 | 0 | 0 | 0.326 | 3.75 | 978 | 3.66 | 1003 |
| 70 | 0 | 0 | 0 | 0.326 | 3.98 | 921 | 3.87 | 948 |
| 80 | 0 | 0 | 0 | 0.326 | 4.22 | 870 | 4.09 | 897 |
| 90 | 0 | 0 | 0 | 0.326 | 4.46 | 824 | 4.32 | 850 |
| 100 | 0 | 0 | 0 | 0.326 | 4.69 | 782 | 4.54 | 808 |
| 110 | 0 | 0 | 0 | 0.326 | 4.93 | 745 | 4.77 | 770 |
| 120 | 0 | 0 | 0 | 0.326 | 5.16 | 711 | 5.00 | 735 |
| 130 | 0 | 0 | 0 | 0.326 | 5.39 | 681 | 5.22 | 703 |
| 167 | 0 | 0 | 0 | 0.326 | 6.22 | 591 | 6.03 | 609 |
| 212 | 0 | 0 | 0 | 0.326 | 7.15 | 514 | 6.96 | 528 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.408 | 6.10 | 1340 | 6.10 | 1340* |
| 25 | 0 | 0 | 0 | 0.326 | 5.51 | 1183 | 5.46 | 1195 |
| 30 | 0 | 0 | 0 | 0.326 | 5.65 | 1154 | 5.59 | 1167 |
| 40 | 0 | 0 | 0 | 0.326 | 5.94 | 1099 | 5.86 | 1114 |
| 50 | 0 | 0 | 0 | 0.326 | 6.22 | 1049 | 6.12 | 1066 |
| 60 | 0 | 0 | 0 | 0.326 | 6.51 | 1003 | 6.40 | 1021 |
| 70 | 0 | 0 | 0 | 0.326 | 6.80 | 960 | 6.67 | 979 |
| 80 | 0 | 0 | 0 | 0.326 | 7.08 | 922 | 6.94 | 940 |
| 90 | 0 | 0 | 0 | 0.326 | 7.37 | 886 | 7.22 | 904 |
| 100 | 0 | 0 | 0 | 0.326 | 7.65 | 854 | 7.49 | 872 |
| 110 | 0 | 0 | 0 | 0.326 | 7.93 | 824 | 7.76 | 841 |
| 120 | 0 | 0 | 0 | 0.326 | 8.21 | 796 | 8.03 | 813 |
| 130 | 0 | 0 | 0 | 0.326 | 8.48 | 770 | 8.30 | 787 |
| 167 | 0 | 0 | 0 | 0.326 | 9.45 | 691 | 9.26 | 705 |
| 212 | 0 | 0 | 0 | 0.326 | 10.57 | 619 | 10.37 | 630 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.408 | 9.53 | 1340 | 9.53 | 1340* |
| 25 | 0 | 0 | 0 | 0.326 | 8.84 | 1153 | 8.77 | 1163 |
| 30 | 0 | 0 | 0 | 0.326 | 9.01 | 1132 | 8.93 | 1143 |
| 40 | 0 | 0 | 0 | 0.326 | 9.34 | 1092 | 9.24 | 1104 |
| 50 | 0 | 0 | 0 | 0.326 | 9.68 | 1055 | 9.56 | 1067 |
| 60 | 0 | 0 | 0 | 0.326 | 10.01 | 1020 | 9.88 | 1033 |
| 70 | 0 | 0 | 0 | 0.326 | 10.33 | 988 | 10.20 | 1001 |
| 80 | 0 | 0 | 0 | 0.326 | 10.66 | 958 | 10.51 | 971 |
| 90 | 0 | 0 | 0 | 0.326 | 10.98 | 930 | 10.82 | 943 |
| 100 | 0 | 0 | 0 | 0.326 | 11.30 | 904 | 11.13 | 917 |
| 110 | 0 | 0 | 0 | 0.326 | 11.61 | 879 | 11.44 | 892 |
| 120 | 0 | 0 | 0 | 0.326 | 11.92 | 857 | 11.74 | 869 |
| 130 | 0 | 0 | 0 | 0.326 | 12.23 | 835 | 12.05 | 848 |
| 167 | 0 | 0 | 0 | 0.326 | 13.32 | 767 | 13.13 | 778 |
| 212 | 0 | 0 | 0 | 0.326 | 14.59 | 701 | 14.39 | 710 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 |
| 150.00 | 0-8 | 0-9 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-7 | 1-9 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 | 2-5 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-9 | 3-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-10 | 0-11 | 1-1 | 1-3 | 1-5 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 | 2-8 |
| 200.00 | 1-2 | 1-4 | 1-5 | 1-7 | 1-10 | 2-1 | 2-4 | 2-8 | 3-1 | 3-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 |
| 225.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-1 |
| 250.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 225.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 | 3-3 |
| 250.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 |
| 175.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 225.00 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 |
| 250.00 | 2-0 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 275.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 |
| 300.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 |
| 325.00 | 3-5 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 |
| 350.00 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 | 5-3 | 5-7 | 5-11 | 6-2 | 6-6 |
| 375.00 | 4-6 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 | 7-1 | 7-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 175.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 200.00 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225.00 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 |
| 250.00 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 |
| 275.00 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 |
| 300.00 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-3 | 4-5 | 4-8 | 4-11 |
| 325.00 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-3 | 5-6 | 5-9 |
| 350.00 | 3-11 | 4-3 | 4-6 | 4-10 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-9 |
| 375.00 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-3 | 6-7 | 7-0 | 7-4 | 7-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 225.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 250.00 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 |
| 275.00 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 |
| 300.00 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-4 |
| 325.00 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 |
| 350.00 | 4-1 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 |
| 375.00 | 4-8 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 |
| 400.00 | 5-4 | 5-7 | 5-10 | 6-1 | 6-5 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 |
| 425.00 | 6-0 | 6-4 | 6-7 | 6-11 | 7-3 | 7-6 | 7-10 | 8-2 | 8-5 | 8-9 |
| 450.00 | 6-9 | 7-1 | 7-5 | 7-9 | 8-1 | 8-5 | 8-9 | 9-2 | 9-6 | 9-10 |
| 475.00 | 7-6 | 7-11 | 8-3 | 8-8 | 9-0 | 9-5 | 9-10 | 10-2 | 10-7 | 10-11 |
| 500.00 | 8-4 | 8-9 | 9-2 | 9-7 | 10-0 | 10-5 | 10-10 | 11-3 | 11-8 | 12-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 |
| 225.00 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 |
| 250.00 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 |
| 275.00 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 |
| 300.00 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 |
| 325.00 | 3-7 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 |
| 350.00 | 4-1 | 4-4 | 4-7 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 | 6-1 |
| 375.00 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 |
| 400.00 | 5-5 | 5-8 | 5-11 | 6-3 | 6-6 | 6-10 | 7-1 | 7-4 | 7-8 | 7-11 |
| 425.00 | 6-1 | 6-5 | 6-8 | 7-0 | 7-4 | 7-8 | 8-0 | 8-4 | 8-8 | 8-11 |
| 450.00 | 6-10 | 7-2 | 7-6 | 7-11 | 8-3 | 8-7 | 9-0 | 9-4 | 9-8 | 10-0 |
| 475.00 | 7-7 | 8-0 | 8-4 | 8-9 | 9-2 | 9-7 | 10-0 | 10-5 | 10-9 | 11-2 |
| 500.00 | 8-5 | 8-10 | 9-3 | 9-9 | 10-2 | 10-7 | 11-1 | 11-6 | 11-11 | 12-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 |
| 275.00 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 |
| 300.00 | 3-1 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 |
| 325.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-10 |
| 350.00 | 4-3 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 |
| 375.00 | 4-10 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 |
| 400.00 | 5-6 | 5-9 | 5-11 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-4 |
| 425.00 | 6-3 | 6-5 | 6-8 | 6-11 | 7-2 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 |
| 450.00 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 |
| 475.00 | 7-9 | 8-1 | 8-4 | 8-8 | 8-11 | 9-2 | 9-6 | 9-9 | 10-1 | 10-4 |
| 500.00 | 8-7 | 8-11 | 9-3 | 9-7 | 9-11 | 10-2 | 10-6 | 10-10 | 11-2 | 11-5 |
| 525.00 | 9-6 | 9-10 | 10-2 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-3 | 12-7 |
| 550.00 | 10-5 | 10-10 | 11-2 | 11-7 | 11-11 | 12-4 | 12-9 | 13-1 | 13-6 | 13-10 |
| 575.00 | 11-5 | 11-10 | 12-3 | 12-8 | 13-1 | 13-6 | 13-11 | 14-4 | 14-9 | 15-2 |
| 600.00 | 12-5 | 12-10 | 13-4 | 13-9 | 14-3 | 14-8 | 15-2 | 15-7 | 16-0 | 16-6 |
| 625.00 | 13-5 | 13-11 | 14-5 | 14-11 | 15-5 | 15-11 | 16-5 | 16-11 | 17-5 | 17-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 275.00 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 |
| 300.00 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 |
| 325.00 | 3-8 | 3-10 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 |
| 350.00 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 |
| 375.00 | 4-11 | 5-1 | 5-3 | 5-5 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 |
| 400.00 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-10 | 7-0 | 7-3 | 7-5 |
| 425.00 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 | 8-2 | 8-5 |
| 450.00 | 7-0 | 7-4 | 7-7 | 7-10 | 8-1 | 8-4 | 8-8 | 8-11 | 9-2 | 9-5 |
| 475.00 | 7-10 | 8-2 | 8-5 | 8-9 | 9-0 | 9-4 | 9-7 | 9-11 | 10-2 | 10-6 |
| 500.00 | 8-8 | 9-0 | 9-4 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 | 11-7 |
| 525.00 | 9-7 | 9-11 | 10-4 | 10-8 | 11-0 | 11-5 | 11-9 | 12-1 | 12-5 | 12-10 |
| 550.00 | 10-6 | 10-11 | 11-4 | 11-9 | 12-1 | 12-6 | 12-11 | 13-3 | 13-8 | 14-1 |
| 575.00 | 11-6 | 11-11 | 12-4 | 12-10 | 13-3 | 13-8 | 14-1 | 14-6 | 14-11 | 15-4 |
| 600.00 | 12-6 | 13-0 | 13-5 | 13-11 | 14-5 | 14-11 | 15-4 | 15-10 | 16-3 | 16-9 |
| 625.00 | 13-7 | 14-1 | 14-7 | 15-1 | 15-8 | 16-2 | 16-8 | 17-2 | 17-8 | 18-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.465 | 0.43 | 1340 | 0.43 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 0.25 | 1630 | 0.25 | 1630 |
| 30 | 0 | 0 | 0 | 0.326 | 0.27 | 1524 | 0.27 | 1524 |
| 40 | 0 | 0 | 0 | 0.326 | 0.29 | 1418 | 0.29 | 1418 |
| 50 | 0 | 0 | 0 | 0.326 | 0.31 | 1306 | 0.31 | 1311 |
| 60 | 0 | 0 | 0 | 0.326 | 0.34 | 1183 | 0.34 | 1205 |
| 70 | 0 | 0 | 0 | 0.326 | 0.38 | 1063 | 0.37 | 1099 |
| 80 | 0 | 0 | 0 | 0.326 | 0.43 | 946 | 0.41 | 995 |
| 90 | 0 | 0 | 0 | 0.326 | 0.49 | 835 | 0.46 | 894 |
| 100 | 0 | 0 | 0 | 0.326 | 0.56 | 731 | 0.51 | 797 |
| 110 | 0 | 0 | 0 | 0.326 | 0.64 | 637 | 0.58 | 706 |
| 120 | 0 | 0 | 0 | 0.326 | 0.74 | 554 | 0.65 | 622 |
| 130 | 0 | 0 | 0 | 0.326 | 0.84 | 485 | 0.74 | 548 |
| 167 | 0 | 0 | 0 | 0.326 | 1.26 | 325 | 1.13 | 361 |
| 212 | 0 | 0 | 0 | 0.326 | 1.71 | 238 | 1.59 | 256 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.465 | 1.73 | 1340 | 1.73 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 1.07 | 1525 | 1.07 | 1525 |
| 30 | 0 | 0 | 0 | 0.326 | 1.14 | 1428 | 1.14 | 1428 |
| 40 | 0 | 0 | 0 | 0.326 | 1.22 | 1331 | 1.22 | 1332 |
| 50 | 0 | 0 | 0 | 0.326 | 1.33 | 1225 | 1.32 | 1239 |
| 60 | 0 | 0 | 0 | 0.326 | 1.45 | 1125 | 1.42 | 1149 |
| 70 | 0 | 0 | 0 | 0.326 | 1.58 | 1031 | 1.53 | 1063 |
| 80 | 0 | 0 | 0 | 0.326 | 1.73 | 945 | 1.66 | 982 |
| 90 | 0 | 0 | 0 | 0.326 | 1.88 | 866 | 1.80 | 906 |
| 100 | 0 | 0 | 0 | 0.326 | 2.05 | 796 | 1.95 | 837 |
| 110 | 0 | 0 | 0 | 0.326 | 2.22 | 734 | 2.11 | 774 |
| 120 | 0 | 0 | 0 | 0.326 | 2.40 | 679 | 2.27 | 718 |
| 130 | 0 | 0 | 0 | 0.326 | 2.58 | 632 | 2.44 | 668 |
| 167 | 0 | 0 | 0 | 0.326 | 3.24 | 504 | 3.08 | 530 |
| 212 | 0 | 0 | 0 | 0.326 | 3.98 | 410 | 3.82 | 428 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.465 | 3.90 | 1340 | 3.90 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 2.65 | 1385 | 2.65 | 1385 |
| 30 | 0 | 0 | 0 | 0.326 | 2.82 | 1301 | 2.81 | 1305 |
| 40 | 0 | 0 | 0 | 0.326 | 3.01 | 1217 | 2.99 | 1229 |
| 50 | 0 | 0 | 0 | 0.326 | 3.22 | 1139 | 3.17 | 1157 |
| 60 | 0 | 0 | 0 | 0.326 | 3.44 | 1068 | 3.37 | 1089 |
| 70 | 0 | 0 | 0 | 0.326 | 3.66 | 1002 | 3.57 | 1027 |
| 80 | 0 | 0 | 0 | 0.326 | 3.89 | 943 | 3.79 | 969 |
| 90 | 0 | 0 | 0 | 0.326 | 4.13 | 890 | 4.01 | 916 |
| 100 | 0 | 0 | 0 | 0.326 | 4.36 | 841 | 4.23 | 868 |
| 110 | 0 | 0 | 0 | 0.326 | 4.60 | 798 | 4.45 | 824 |
| 120 | 0 | 0 | 0 | 0.326 | 4.84 | 759 | 4.68 | 784 |
| 130 | 0 | 0 | 0 | 0.326 | 5.07 | 724 | 4.91 | 748 |
| 167 | 0 | 0 | 0 | 0.326 | 5.91 | 621 | 5.73 | 641 |
| 212 | 0 | 0 | 0 | 0.326 | 6.87 | 535 | 6.68 | 550 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.465 | 6.94 | 1340 | 6.94 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 5.23 | 1248 | 5.20 | 1255 |
| 30 | 0 | 0 | 0 | 0.326 | 5.50 | 1186 | 5.45 | 1197 |
| 40 | 0 | 0 | 0 | 0.326 | 5.78 | 1128 | 5.71 | 1142 |
| 50 | 0 | 0 | 0 | 0.326 | 6.07 | 1076 | 5.98 | 1092 |
| 60 | 0 | 0 | 0 | 0.326 | 6.35 | 1027 | 6.25 | 1044 |
| 70 | 0 | 0 | 0 | 0.326 | 6.64 | 983 | 6.52 | 1001 |
| 80 | 0 | 0 | 0 | 0.326 | 6.93 | 942 | 6.80 | 961 |
| 90 | 0 | 0 | 0 | 0.326 | 7.21 | 905 | 7.07 | 923 |
| 100 | 0 | 0 | 0 | 0.326 | 7.50 | 871 | 7.34 | 889 |
| 110 | 0 | 0 | 0 | 0.326 | 7.78 | 839 | 7.62 | 857 |
| 120 | 0 | 0 | 0 | 0.326 | 8.06 | 811 | 7.89 | 828 |
| 130 | 0 | 0 | 0 | 0.326 | 8.33 | 784 | 8.16 | 801 |
| 167 | 0 | 0 | 0 | 0.326 | 9.31 | 701 | 9.12 | 716 |
| 212 | 0 | 0 | 0 | 0.326 | 10.44 | 626 | 10.24 | 638 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.465 | 10.86 | 1340 | 10.86 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 8.87 | 1150 | 8.79 | 1160 |
| 30 | 0 | 0 | 0 | 0.326 | 9.20 | 1109 | 9.11 | 1120 |
| 40 | 0 | 0 | 0 | 0.326 | 9.53 | 1070 | 9.43 | 1082 |
| 50 | 0 | 0 | 0 | 0.326 | 9.86 | 1034 | 9.74 | 1047 |
| 60 | 0 | 0 | 0 | 0.326 | 10.19 | 1001 | 10.06 | 1014 |
| 70 | 0 | 0 | 0 | 0.326 | 10.52 | 970 | 10.38 | 984 |
| 80 | 0 | 0 | 0 | 0.326 | 10.84 | 942 | 10.69 | 955 |
| 90 | 0 | 0 | 0 | 0.326 | 11.16 | 915 | 11.00 | 928 |
| 100 | 0 | 0 | 0 | 0.326 | 11.48 | 890 | 11.31 | 903 |
| 110 | 0 | 0 | 0 | 0.326 | 11.79 | 866 | 11.61 | 879 |
| 120 | 0 | 0 | 0 | 0.326 | 12.09 | 844 | 11.92 | 857 |
| 130 | 0 | 0 | 0 | 0.326 | 12.40 | 824 | 12.22 | 836 |
| 167 | 0 | 0 | 0 | 0.326 | 13.49 | 757 | 13.29 | 769 |
| 212 | 0 | 0 | 0 | 0.326 | 14.74 | 693 | 14.54 | 703 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 125.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 |
| 175.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 |
| 175.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 2-0 |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-9 | 1-11 | 2-3 | 2-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 150.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 175.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 |
| 225.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 |
| 250.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 150.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 |
| 200.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 |
| 225.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 |
| 250.00 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.14

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-1 | 1 1- | 0 1-1 | 1-1 |
| 175.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 |
| 225.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 |
| 250.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 |
| 275.00 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 |
| 300.00 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-3 | 4-5 |
| 325.00 | 3-1 | 3-4 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 | 4-8 | 5-0 | 5-3 |
| 350.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 | 5-9 | 6-1 |
| 375.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 7-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 |
| 175.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 |
| 225.00 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 250.00 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 |
| 275.00 | 2-3 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 |
| 300.00 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 |
| 325.00 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-1 | 5-5 |
| 350.00 | 3-7 | 3-10 | 4-1 | 4-5 | 4-8 | 5-0 | 5-4 | 5-7 | 5-11 | 6-3 |
| 375.00 | 4-2 | 4-5 | 4-9 | 5-0 | 5-4 | 5-9 | 6-1 | 6-5 | 6-10 | 7-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 |
| 225.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 250.00 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 |
| 275.00 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 |
| 300.00 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-3 |
| 325.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 |
| 350.00 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 5-0 | 5-2 | 5-5 | 5-7 | 5-10 |
| 375.00 | 4-7 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-5 | 6-8 |
| 400.00 | 5-2 | 5-5 | 5-9 | 6-0 | 6-3 | 6-6 | 6-10 | 7-1 | 7-4 | 7-7 |
| 425.00 | 5-10 | 6-2 | 6-5 | 6-9 | 7-1 | 7-4 | 7-8 | 8-0 | 8-3 | 8-7 |
| 450.00 | 6-7 | 6-11 | 7-3 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 | 9-4 | 9-8 |
| 475.00 | 7-4 | 7-8 | 8-1 | 8-5 | 8-10 | 9-2 | 9-7 | 10-0 | 10-4 | 10-9 |
| 500.00 | 8-1 | 8-6 | 8-11 | 9-4 | 9-9 | 10-2 | 10-7 | 11-1 | 11-6 | 11-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 |
| 225.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 |
| 250.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 |
| 275.00 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 |
| 300.00 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-4 |
| 325.00 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 | 5-2 |
| 350.00 | 4-0 | 4-3 | 4-5 | 4-8 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 |
| 375.00 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 |
| 400.00 | 5-3 | 5-6 | 5-9 | 6-1 | 6-4 | 6-8 | 6-11 | 7-3 | 7-6 | 7-9 |
| 425.00 | 5-11 | 6-3 | 6-6 | 6-10 | 7-2 | 7-6 | 7-10 | 8-2 | 8-6 | 8-9 |
| 450.00 | 6-7 | 7-0 | 7-4 | 7-8 | 8-1 | 8-5 | 8-9 | 9-2 | 9-6 | 9-10 |
| 475.00 | 7-4 | 7-9 | 8-2 | 8-7 | 9-0 | 9-4 | 9-9 | 10-2 | 10-7 | 11-0 |
| 500.00 | 8-2 | 8-7 | 9-0 | 9-6 | 9-11 | 10-5 | 10-10 | 11-3 | 11-9 | 12-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 275.00 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 300.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 |
| 325.00 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 |
| 350.00 | 4-4 | 4-6 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 |
| 375.00 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 |
| 400.00 | 5-8 | 5-10 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 | 7-5 |
| 425.00 | 6-4 | 6-7 | 6-10 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 | 8-5 |
| 450.00 | 7-1 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 |
| 475.00 | 7-11 | 8-3 | 8-6 | 8-10 | 9-1 | 9-4 | 9-8 | 9-11 | 10-2 | 10-6 |
| 500.00 | 8-9 | 9-1 | 9-5 | 9-9 | 10-1 | 10-5 | 10-8 | 11-0 | 11-4 | 11-7 |
| 525.00 | 9-8 | 10-1 | 10-5 | 10-9 | 11-1 | 11-5 | 11-9 | 12-2 | 12-6 | 12-10 |
| 550.00 | 10-8 | 11-0 | 11-5 | 11-9 | 12-2 | 12-7 | 12-11 | 13-4 | 13-8 | 14-1 |
| 575.00 | 11-8 | 12-1 | 12-6 | 12-11 | 13-4 | 13-9 | 14-2 | 14-7 | 15-0 | 15-4 |
| 600.00 | 12-8 | 13-1 | 13-7 | 14-0 | 14-6 | 14-11 | 15-5 | 15-10 | 16-3 | 16-9 |
| 625.00 | 13-9 | 14-3 | 14-9 | 15-3 | 15-9 | 16-3 | 16-8 | 17-2 | 17-8 | 18-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 |
| 275.00 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 |
| 300.00 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 |
| 325.00 | 3-9 | 3-11 | 4-0 | 4-2 | 4-4 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 |
| 350.00 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 |
| 375.00 | 5-0 | 5-2 | 5-4 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-8 |
| 400.00 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 |
| 425.00 | 6-5 | 6-8 | 6-11 | 7-2 | 7-4 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 |
| 450.00 | 7-2 | 7-5 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-4 | 9-7 |
| 475.00 | 8-0 | 8-4 | 8-7 | 8-11 | 9-2 | 9-6 | 9-9 | 10-1 | 10-4 | 10-8 |
| 500.00 | 8-10 | 9-2 | 9-6 | 9-10 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-9 |
| 525.00 | 9-9 | 10-2 | 10-6 | 10-11 | 11-3 | 11-7 | 11-11 | 12-4 | 12-8 | 13-0 |
| 550.00 | 10-9 | 11-2 | 11-6 | 11-11 | 12-4 | 12-9 | 13-1 | 13-6 | 13-11 | 14-3 |
| 575.00 | 11-9 | 12-2 | 12-7 | 13-1 | 13-6 | 13-11 | 14-4 | 14-9 | 15-2 | 15-7 |
| 600.00 | 12-9 | 13-3 | 13-9 | 14-2 | 14-8 | 15-2 | 15-7 | 16-1 | 16-6 | 17-0 |
| 625.00 | 13-10 | 14-5 | 14-11 | 15-5 | 15-11 | 16-5 | 16-11 | 17-5 | 17-11 | 18-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.654 | 0.61 | 1340 | 0.61 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 0.26 | 1574 | 0.26 | 1574 |
| 30 | 0 | 0 | 0 | 0.326 | 0.28 | 1468 | 0.28 | 1468 |
| 40 | 0 | 0 | 0 | 0.326 | 0.30 | 1362 | 0.30 | 1362 |
| 50 | 0 | 0 | 0 | 0.326 | 0.33 | 1242 | 0.32 | 1255 |
| 60 | 0 | 0 | 0 | 0.326 | 0.36 | 1120 | 0.35 | 1149 |
| 70 | 0 | 0 | 0 | 0.326 | 0.41 | 1001 | 0.39 | 1044 |
| 80 | 0 | 0 | 0 | 0.326 | 0.46 | 887 | 0.43 | 942 |
| 90 | 0 | 0 | 0 | 0.326 | 0.52 | 779 | 0.48 | 843 |
| 100 | 0 | 0 | 0 | 0.326 | 0.60 | 680 | 0.54 | 748 |
| 110 | 0 | 0 | 0 | 0.326 | 0.69 | 592 | 0.62 | 661 |
| 120 | 0 | 0 | 0 | 0.326 | 0.79 | 516 | 0.70 | 582 |
| 130 | 0 | 0 | 0 | 0.326 | 0.90 | 454 | 0.79 | 513 |
| 167 | 0 | 0 | 0 | 0.326 | 1.31 | 310 | 1.19 | 343 |
| 212 | 0 | 0 | 0 | 0.326 | 1.76 | 232 | 1.64 | 248 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.654 | 2.44 | 1340 | 2.44 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 1.23 | 1320 | 1.23 | 1323 |
| 30 | 0 | 0 | 0 | 0.326 | 1.34 | 1215 | 1.33 | 1230 |
| 40 | 0 | 0 | 0 | 0.326 | 1.46 | 1115 | 1.43 | 1140 |
| 50 | 0 | 0 | 0 | 0.326 | 1.59 | 1022 | 1.55 | 1055 |
| 60 | 0 | 0 | 0 | 0.326 | 1.74 | 937 | 1.67 | 974 |
| 70 | 0 | 0 | 0 | 0.326 | 1.90 | 859 | 1.81 | 899 |
| 80 | 0 | 0 | 0 | 0.326 | 2.07 | 789 | 1.96 | 831 |
| 90 | 0 | 0 | 0 | 0.326 | 2.24 | 728 | 2.12 | 769 |
| 100 | 0 | 0 | 0 | 0.326 | 2.42 | 674 | 2.29 | 713 |
| 110 | 0 | 0 | 0 | 0.326 | 2.60 | 628 | 2.46 | 664 |
| 120 | 0 | 0 | 0 | 0.326 | 2.78 | 587 | 2.63 | 620 |
| 130 | 0 | 0 | 0 | 0.326 | 2.96 | 551 | 2.80 | 582 |
| 167 | 0 | 0 | 0 | 0.326 | 3.60 | 454 | 3.43 | 476 |
| 212 | 0 | 0 | 0 | 0.326 | 4.30 | 380 | 4.14 | 395 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.654 | 5.50 | 1340 | 5.50 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 3.60 | 1019 | 3.52 | 1043 |
| 30 | 0 | 0 | 0 | 0.326 | 3.83 | 959 | 3.73 | 984 |
| 40 | 0 | 0 | 0 | 0.326 | 4.06 | 904 | 3.95 | 930 |
| 50 | 0 | 0 | 0 | 0.326 | 4.30 | 854 | 4.17 | 881 |
| 60 | 0 | 0 | 0 | 0.326 | 4.53 | 809 | 4.39 | 836 |
| 70 | 0 | 0 | 0 | 0.326 | 4.77 | 769 | 4.62 | 795 |
| 80 | 0 | 0 | 0 | 0.326 | 5.01 | 733 | 4.85 | 758 |
| 90 | 0 | 0 | 0 | 0.326 | 5.24 | 701 | 5.07 | 724 |
| 100 | 0 | 0 | 0 | 0.326 | 5.47 | 671 | 5.30 | 693 |
| 110 | 0 | 0 | 0 | 0.326 | 5.70 | 645 | 5.52 | 665 |
| 120 | 0 | 0 | 0 | 0.326 | 5.92 | 621 | 5.74 | 640 |
| 130 | 0 | 0 | 0 | 0.326 | 6.14 | 598 | 5.95 | 617 |
| 167 | 0 | 0 | 0 | 0.326 | 6.91 | 532 | 6.73 | 546 |
| 212 | 0 | 0 | 0 | 0.326 | 7.79 | 472 | 7.60 | 484 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.654 | 9.79 | 1340 | 9.79 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 7.62 | 857 | 7.46 | 875 |
| 30 | 0 | 0 | 0 | 0.326 | 7.90 | 827 | 7.73 | 844 |
| 40 | 0 | 0 | 0 | 0.326 | 8.17 | 799 | 8.00 | 816 |
| 50 | 0 | 0 | 0 | 0.326 | 8.45 | 773 | 8.27 | 790 |
| 60 | 0 | 0 | 0 | 0.326 | 8.72 | 749 | 8.53 | 765 |
| 70 | 0 | 0 | 0 | 0.326 | 8.98 | 727 | 8.80 | 743 |
| 80 | 0 | 0 | 0 | 0.326 | 9.24 | 707 | 9.05 | 722 |
| 90 | 0 | 0 | 0 | 0.326 | 9.50 | 688 | 9.31 | 702 |
| 100 | 0 | 0 | 0 | 0.326 | 9.76 | 670 | 9.56 | 683 |
| 110 | 0 | 0 | 0 | 0.326 | 10.00 | 653 | 9.81 | 666 |
| 120 | 0 | 0 | 0 | 0.326 | 10.25 | 638 | 10.05 | 650 |
| 130 | 0 | 0 | 0 | 0.326 | 10.49 | 623 | 10.29 | 635 |
| 167 | 0 | 0 | 0 | 0.326 | 11.36 | 576 | 11.16 | 586 |
| 212 | 0 | 0 | 0 | 0.326 | 12.35 | 530 | 12.15 | 539 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 0.654 | 15.32 | 1340 | 15.32 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 13.06 | 782 | 12.86 | 794 |
| 30 | 0 | 0 | 0 | 0.326 | 13.35 | 765 | 13.15 | 777 |
| 40 | 0 | 0 | 0 | 0.326 | 13.63 | 749 | 13.44 | 760 |
| 50 | 0 | 0 | 0 | 0.326 | 13.92 | 734 | 13.72 | 745 |
| 60 | 0 | 0 | 0 | 0.326 | 14.20 | 720 | 14.00 | 730 |
| 70 | 0 | 0 | 0 | 0.326 | 14.47 | 706 | 14.27 | 716 |
| 80 | 0 | 0 | 0 | 0.326 | 14.75 | 693 | 14.54 | 703 |
| 90 | 0 | 0 | 0 | 0.326 | 15.02 | 681 | 14.81 | 690 |
| 100 | 0 | 0 | 0 | 0.326 | 15.28 | 669 | 15.08 | 678 |
| 110 | 0 | 0 | 0 | 0.326 | 15.54 | 658 | 15.34 | 667 |
| 120 | 0 | 0 | 0 | 0.326 | 15.80 | 647 | 15.60 | 656 |
| 130 | 0 | 0 | 0 | 0.326 | 16.06 | 637 | 15.85 | 645 |
| 167 | 0 | 0 | 0 | 0.326 | 16.98 | 603 | 16.77 | 610 |
| 212 | 0 | 0 | 0 | 0.326 | 18.05 | 567 | 17.84 | 574 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 1-0 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 |
| 175.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-11 |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 125.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 |
| 150.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-7 |
| 175.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-5 | 1-7 | 1-10 | 2-1 |
| 200.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 | 2-5 | 2-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 |
| 200.00 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-5 |
| 225.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 |
| 250.00 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 |
| 200.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 225.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-3 |
| 250.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 |
| 175.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 225.00 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 |
| 250.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 275.00 | 2-11 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-8 |
| 300.00 | 3-6 | 3-9 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 | 5-1 | 5-4 | 5-6 |
| 325.00 | 4-2 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 | 5-8 | 5-11 | 6-3 | 6-6 |
| 350.00 | 4-9 | 5-1 | 5-4 | 5-8 | 6-0 | 6-3 | 6-7 | 6-11 | 7-3 | 7-6 |
| 375.00 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 | 8-3 | 8-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 175.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 200.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 225.00 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 |
| 250.00 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 3-11 |
| 275.00 | 3-0 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 |
| 300.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 |
| 325.00 | 4-3 | 4-6 | 4-9 | 5-1 | 5-4 | 5-7 | 5-11 | 6-2 | 6-5 | 6-8 |
| 350.00 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 | 7-9 |
| 375.00 | 5-8 | 6-0 | 6-4 | 6-9 | 7-1 | 7-5 | 7-10 | 8-2 | 8-7 | 8-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 |
| 225.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 250.00 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 |
| 300.00 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 |
| 325.00 | 4-11 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 |
| 350.00 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 |
| 375.00 | 6-7 | 6-10 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 | 8-5 | 8-7 |
| 400.00 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 |
| 425.00 | 8-5 | 8-9 | 9-0 | 9-4 | 9-8 | 9-11 | 10-3 | 10-6 | 10-10 | 11-1 |
| 450.00 | 9-5 | 9-9 | 10-2 | 10-6 | 10-10 | 11-2 | 11-6 | 11-9 | 12-1 | 12-5 |
| 475.00 | 10-6 | 10-11 | 11-3 | 11-8 | 12-0 | 12-5 | 12-9 | 13-2 | 13-6 | 13-10 |
| 500.00 | 11-8 | 12-1 | 12-6 | 12-11 | 13-4 | 13-9 | 14-2 | 14-7 | 14-11 | 15-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 |
| 225.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 250.00 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 |
| 275.00 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-9 |
| 300.00 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-8 |
| 325.00 | 5-0 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 |
| 350.00 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 |
| 375.00 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-1 | 8-4 | 8-7 | 8-10 |
| 400.00 | 7-7 | 7-11 | 8-2 | 8-5 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 |
| 425.00 | 8-7 | 8-11 | 9-3 | 9-6 | 9-10 | 10-2 | 10-5 | 10-9 | 11-0 | 11-4 |
| 450.00 | 9-8 | 10-0 | 10-4 | 10-8 | 11-0 | 11-4 | 11-8 | 12-0 | 12-4 | 12-8 |
| 475.00 | 10-9 | 11-2 | 11-6 | 11-11 | 12-4 | 12-8 | 13-0 | 13-5 | 13-9 | 14-1 |
| 500.00 | 11-11 | 12-4 | 12-9 | 13-2 | 13-8 | 14-0 | 14-5 | 14-10 | 15-3 | 15-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 |
| 275.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 300.00 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 325.00 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-6 |
| 350.00 | 6-4 | 6-5 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 | 7-5 | 7-6 |
| 375.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 |
| 400.00 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 |
| 425.00 | 9-4 | 9-6 | 9-8 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 |
| 450.00 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-7 | 11-9 | 12-0 | 12-3 | 12-5 |
| 475.00 | 11-7 | 11-10 | 12-2 | 12-5 | 12-8 | 12-11 | 13-1 | 13-4 | 13-7 | 13-10 |
| 500.00 | 12-10 | 13-2 | 13-5 | 13-9 | 14-0 | 14-3 | 14-7 | 14-10 | 15-1 | 15-4 |
| 525.00 | 14-2 | 14-6 | 14-10 | 15-2 | 15-5 | 15-9 | 16-0 | 16-4 | 16-7 | 16-11 |
| 550.00 | 15-7 | 15-11 | 16-3 | 16-7 | 16-11 | 17-3 | 17-7 | 17-11 | 18-3 | 18-7 |
| 575.00 | 17-0 | 17-5 | 17-9 | 18-2 | 18-6 | 18-11 | 19-3 | 19-7 | 19-11 | 20-4 |
| 600.00 | 18-6 | 18-11 | 19-4 | 19-9 | 20-2 | 20-7 | 20-11 | 21-4 | 21-9 | 22-1 |
| 625.00 | 20-1 | 20-7 | 21-0 | 21-5 | 21-11 | 22-4 | 22-9 | 23-2 | 23-7 | 24-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 |
| 275.00 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 300.00 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 |
| 325.00 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-5 | 6-7 |
| 350.00 | 6-5 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 |
| 375.00 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 | 8-9 |
| 400.00 | 8-4 | 8-6 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 |
| 425.00 | 9-5 | 9-8 | 9-10 | 10-1 | 10-3 | 10-5 | 10-8 | 10-10 | 11-0 | 11-3 |
| 450.00 | 10-7 | 10-10 | 11-0 | 11-3 | 11-6 | 11-9 | 11-11 | 12-2 | 12-4 | 12-7 |
| 475.00 | 11-9 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-9 | 14-0 |
| 500.00 | 13-1 | 13-4 | 13-8 | 13-11 | 14-2 | 14-6 | 14-9 | 15-0 | 15-3 | 15-7 |
| 525.00 | 14-5 | 14-9 | 15-0 | 15-4 | 15-8 | 16-0 | 16-3 | 16-7 | 16-10 | 17-2 |
| 550.00 | 15-10 | 16-2 | 16-6 | 16-10 | 17-2 | 17-6 | 17-10 | 18-2 | 18-6 | 18-10 |
| 575.00 | 17-3 | 17-8 | 18-0 | 18-5 | 18-9 | 19-2 | 19-6 | 19-10 | 20-3 | 20-7 |
| 600.00 | 18-10 | 19-3 | 19-8 | 20-1 | 20-5 | 20-10 | 21-3 | 21-8 | 22-0 | 22-5 |
| 625.00 | 20-5 | 20-10 | 21-4 | 21-9 | 22-2 | 22-8 | 23-1 | 23-6 | 23-11 | 24-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.02 | 0.95 | 1340 | 0.95 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 0.29 | 1414 | 0.29 | 1414 |
| 30 | 0 | 0 | 0 | 0.326 | 0.31 | 1302 | 0.31 | 1307 |
| 40 | 0 | 0 | 0 | 0.326 | 0.35 | 1179 | 0.34 | 1201 |
| 50 | 0 | 0 | 0 | 0.326 | 0.38 | 1059 | 0.37 | 1096 |
| 60 | 0 | 0 | 0 | 0.326 | 0.43 | 942 | 0.41 | 992 |
| 70 | 0 | 0 | 0 | 0.326 | 0.49 | 831 | 0.46 | 891 |
| 80 | 0 | 0 | 0 | 0.326 | 0.56 | 728 | 0.51 | 794 |
| 90 | 0 | 0 | 0 | 0.326 | 0.64 | 634 | 0.58 | 703 |
| 100 | 0 | 0 | 0 | 0.326 | 0.74 | 552 | 0.66 | 620 |
| 110 | 0 | 0 | 0 | 0.326 | 0.84 | 483 | 0.75 | 546 |
| 120 | 0 | 0 | 0 | 0.326 | 0.96 | 427 | 0.85 | 482 |
| 130 | 0 | 0 | 0 | 0.326 | 1.07 | 381 | 0.95 | 429 |
| 167 | 0 | 0 | 0 | 0.326 | 1.47 | 277 | 1.35 | 303 |
| 212 | 0 | 0 | 0 | 0.326 | 1.89 | 215 | 1.78 | 229 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.02 | 3.81 | 1340 | 3.81 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 2.08 | 786 | 1.97 | 827 |
| 30 | 0 | 0 | 0 | 0.326 | 2.25 | 725 | 2.13 | 765 |
| 40 | 0 | 0 | 0 | 0.326 | 2.43 | 672 | 2.30 | 710 |
| 50 | 0 | 0 | 0 | 0.326 | 2.61 | 625 | 2.47 | 661 |
| 60 | 0 | 0 | 0 | 0.326 | 2.79 | 585 | 2.64 | 618 |
| 70 | 0 | 0 | 0 | 0.326 | 2.97 | 550 | 2.81 | 580 |
| 80 | 0 | 0 | 0 | 0.326 | 3.15 | 519 | 2.98 | 547 |
| 90 | 0 | 0 | 0 | 0.326 | 3.32 | 492 | 3.15 | 517 |
| 100 | 0 | 0 | 0 | 0.326 | 3.49 | 468 | 3.32 | 491 |
| 110 | 0 | 0 | 0 | 0.326 | 3.65 | 447 | 3.49 | 468 |
| 120 | 0 | 0 | 0 | 0.326 | 3.82 | 428 | 3.65 | 447 |
| 130 | 0 | 0 | 0 | 0.326 | 3.97 | 411 | 3.81 | 429 |
| 167 | 0 | 0 | 0 | 0.326 | 4.53 | 361 | 4.36 | 374 |
| 212 | 0 | 0 | 0 | 0.326 | 5.14 | 318 | 4.98 | 328 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.02 | 8.59 | 1340 | 8.59 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 6.71 | 548 | 6.52 | 564 |
| 30 | 0 | 0 | 0 | 0.326 | 6.91 | 532 | 6.72 | 547 |
| 40 | 0 | 0 | 0 | 0.326 | 7.11 | 517 | 6.92 | 531 |
| 50 | 0 | 0 | 0 | 0.326 | 7.31 | 503 | 7.12 | 516 |
| 60 | 0 | 0 | 0 | 0.326 | 7.50 | 490 | 7.32 | 503 |
| 70 | 0 | 0 | 0 | 0.326 | 7.69 | 478 | 7.51 | 490 |
| 80 | 0 | 0 | 0 | 0.326 | 7.88 | 467 | 7.69 | 478 |
| 90 | 0 | 0 | 0 | 0.326 | 8.06 | 456 | 7.88 | 467 |
| 100 | 0 | 0 | 0 | 0.326 | 8.24 | 446 | 8.06 | 456 |
| 110 | 0 | 0 | 0 | 0.326 | 8.42 | 437 | 8.24 | 447 |
| 120 | 0 | 0 | 0 | 0.326 | 8.59 | 428 | 8.41 | 437 |
| 130 | 0 | 0 | 0 | 0.326 | 8.77 | 420 | 8.59 | 429 |
| 167 | 0 | 0 | 0 | 0.326 | 9.38 | 393 | 9.20 | 400 |
| 212 | 0 | 0 | 0 | 0.326 | 10.08 | 365 | 9.91 | 372 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.02 | 15.31 | 1340 | 15.31 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 13.43 | 488 | 13.24 | 495 |
| 30 | 0 | 0 | 0 | 0.326 | 13.63 | 481 | 13.43 | 488 |
| 40 | 0 | 0 | 0 | 0.326 | 13.82 | 474 | 13.63 | 481 |
| 50 | 0 | 0 | 0 | 0.326 | 14.02 | 467 | 13.82 | 474 |
| 60 | 0 | 0 | 0 | 0.326 | 14.21 | 461 | 14.02 | 467 |
| 70 | 0 | 0 | 0 | 0.326 | 14.40 | 455 | 14.21 | 461 |
| 80 | 0 | 0 | 0 | 0.326 | 14.58 | 449 | 14.39 | 455 |
| 90 | 0 | 0 | 0 | 0.326 | 14.77 | 444 | 14.58 | 450 |
| 100 | 0 | 0 | 0 | 0.326 | 14.95 | 438 | 14.76 | 444 |
| 110 | 0 | 0 | 0 | 0.326 | 15.13 | 433 | 14.95 | 439 |
| 120 | 0 | 0 | 0 | 0.326 | 15.31 | 428 | 15.13 | 434 |
| 130 | 0 | 0 | 0 | 0.326 | 15.49 | 423 | 15.30 | 429 |
| 167 | 0 | 0 | 0 | 0.326 | 16.13 | 407 | 15.95 | 411 |
| 212 | 0 | 0 | 0 | 0.326 | 16.88 | 389 | 16.70 | 393 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.02 | 24.00 | 1340 | 24.00 | 1340* |
| 20 | 0 | 0 | 0 | 0.326 | 22.13 | 464 | 21.93 | 468 |
| 30 | 0 | 0 | 0 | 0.326 | 22.32 | 460 | 22.13 | 464 |
| 40 | 0 | 0 | 0 | 0.326 | 22.51 | 456 | 22.32 | 460 |
| 50 | 0 | 0 | 0 | 0.326 | 22.71 | 452 | 22.51 | 456 |
| 60 | 0 | 0 | 0 | 0.326 | 22.89 | 449 | 22.70 | 452 |
| 70 | 0 | 0 | 0 | 0.326 | 23.08 | 445 | 22.89 | 449 |
| 80 | 0 | 0 | 0 | 0.326 | 23.27 | 442 | 23.08 | 445 |
| 90 | 0 | 0 | 0 | 0.326 | 23.45 | 438 | 23.26 | 442 |
| 100 | 0 | 0 | 0 | 0.326 | 23.64 | 435 | 23.45 | 438 |
| 110 | 0 | 0 | 0 | 0.326 | 23.82 | 432 | 23.63 | 435 |
| 120 | 0 | 0 | 0 | 0.326 | 24.00 | 428 | 23.81 | 432 |
| 130 | 0 | 0 | 0 | 0.326 | 24.18 | 425 | 23.99 | 429 |
| 167 | 0 | 0 | 0 | 0.326 | 24.84 | 414 | 24.65 | 417 |
| 212 | 0 | 0 | 0 | 0.326 | 25.61 | 402 | 25.43 | 405 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-4 | 1-6 | 1-8 |
| 175.00 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-3 |
| 200.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-1 | 2-4 | 2-8 | 3-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 |
| 150.00 | 0-8 | 0-8 | 0-9 | 0-10 | 1-0 | 1-1 | 1-3 | 1-5 | 1-8 | 1-11 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-3 | 2-7 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-9 | 2-0 | 2-3 | 2-7 | 2-11 | 3-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 |
| 150.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 |
| 175.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-8 |
| 200.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 |
| 225.00 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-5 |
| 250.00 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-8 | 4-11 | 5-2 | 5-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 125.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 |
| 175.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 |
| 200.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 225.00 | 2-8 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 | 4-2 | 4-5 | 4-8 |
| 250.00 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-8 | 4-11 | 5-2 | 5-5 | 5-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 |
| 175.00 | 2-3 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 225.00 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-8 |
| 250.00 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 |
| 275.00 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 |
| 300.00 | 6-6 | 6-9 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-11 | 8-1 | 8-3 |
| 325.00 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-6 | 9-8 |
| 350.00 | 8-10 | 9-2 | 9-5 | 9-8 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 |
| 375.00 | 10-2 | 10-6 | 10-10 | 11-2 | 11-5 | 11-9 | 12-0 | 12-4 | 12-7 | 12-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 |
| 175.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 |
| 200.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 225.00 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 |
| 250.00 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 |
| 275.00 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 | 7-1 |
| 300.00 | 6-8 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-11 | 8-1 | 8-3 | 8-5 |
| 325.00 | 7-10 | 8-1 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-6 | 9-8 | 9-11 |
| 350.00 | 9-2 | 9-5 | 9-8 | 9-11 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 |
| 375.00 | 10-6 | 10-10 | 11-1 | 11-5 | 11-9 | 12-0 | 12-4 | 12-7 | 12-11 | 13-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 |
| 225.00 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 |
| 250.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 |
| 275.00 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 300.00 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 |
| 325.00 | 8-9 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 |
| 350.00 | 10-2 | 10-3 | 10-5 | 10-7 | 10-9 | 10-10 | 11-0 | 11-2 | 11-4 | 11-5 |
| 375.00 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 |
| 400.00 | 13-3 | 13-5 | 13-8 | 13-10 | 14-0 | 14-2 | 14-5 | 14-7 | 14-9 | 14-11 |
| 425.00 | 14-11 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 | 16-3 | 16-6 | 16-8 | 16-11 |
| 450.00 | 16-9 | 17-0 | 17-3 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-8 | 18-11 |
| 475.00 | 18-8 | 18-11 | 19-3 | 19-6 | 19-9 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 |
| 500.00 | 20-8 | 21-0 | 21-4 | 21-7 | 21-11 | 22-3 | 22-6 | 22-10 | 23-1 | 23-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 |
| 225.00 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 |
| 250.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 275.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 |
| 300.00 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 |
| 325.00 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 | 10-0 |
| 350.00 | 10-3 | 10-5 | 10-7 | 10-9 | 10-10 | 11-0 | 11-2 | 11-4 | 11-5 | 11-7 |
| 375.00 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 |
| 400.00 | 13-5 | 13-8 | 13-10 | 14-0 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-2 |
| 425.00 | 15-2 | 15-5 | 15-7 | 15-10 | 16-1 | 16-3 | 16-6 | 16-8 | 16-11 | 17-1 |
| 450.00 | 17-0 | 17-3 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-8 | 18-11 | 19-2 |
| 475.00 | 18-11 | 19-3 | 19-6 | 19-9 | 20-1 | 20-4 | 20-7 | 20-10 | 21-1 | 21-4 |
| 500.00 | 21-0 | 21-4 | 21-7 | 21-11 | 22-3 | 22-6 | 22-10 | 23-1 | 23-5 | 23-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 |
| 275.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 | 6-1 | 1 7-0 | 7-0 | 7-1 | 7-2 |
| 300.00 | 7-11 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 |
| 325.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 350.00 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 |
| 375.00 | 12-4 | 12-5 | 12-6 | 12-8 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-3 |
| 400.00 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 | 14-8 | 14-9 1 | 4-10 | 15-0 | 15-1 |
| 425.00 | 15-10 | 16-0 | 16-1 | 16-3 | 16-5 | 16-6 | 16-8 | 16-10 | 16-11 | 17-1 |
| 450.00 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 |
| 475.00 | 19-9 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 |
| 500.00 | 21-11 | 22-2 | 22-4 | 22-6 | 22-8 | 22-11 | 23-1 | 23-3 | 23-5 | 23-8 |
| 525.00 | 24-2 | 24-5 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-8 | 25-10 | 26-1 |
| 550.00 | 26-7 | 26-9 | 27-0 | 27-3 | 27-6 | 27-9 | 27-11 | 28-2 | 28-5 | 28-7 |
| 575.00 | 29-0 | 29-3 | 29-7 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 | 31-0 | 31-3 |
| 600.00 | 31-7 | 31-11 | 32-2 | 32-5 | 32-9 | 33-0 | 33-3 | 33-6 | 33-10 | 34-1 |
| 625.00 | 34-4 | 34-7 | 34-11 | 35-3 | 35-6 | 35-10 | 36-1 | 36-5 | 36-8 | 37-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 |
| 275.00 | 6-8 | 6-9 | 6-10 | 6-10 | 6-1 | 1 7-0 | 7-0 | 7-1 | 7-2 | 7-2 |
| 300.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 |
| 325.00 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 |
| 350.00 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 |
| 375.00 | 12-5 | 12-7 | 12-8 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-3 | 13-5 |
| 400.00 | 14-2 | 14-3 | 14-5 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-1 | 15-3 |
| 425.00 | 16-0 | 16-1 | 16-3 | 16-5 | 16-6 | 16-8 | 16-10 | 16-11 | 17-1 | 17-2 |
| 450.00 | 17-11 | 18-1 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-3 |
| 475.00 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 |
| 500.00 | 22-2 | 22-4 | 22-6 | 22-8 | 22-11 | 23-1 | 23-3 | 23-5 | 23-8 | 23-10 |
| 525.00 | 24-5 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-8 | 25-10 | 26-1 | 26-3 |
| 550.00 | 26-9 | 27-0 | 27-3 | 27-6 | 27-9 | 27-11 | 28-2 | 28-5 | 28-7 | 28-10 |
| 575.00 | 29-3 | 29-7 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 | 31-1 | 31-3 | 31-6 |
| 600.00 | 31-11 | 32-2 | 32-6 | 32-9 | 33-0 | 33-3 | 33-7 | 33-10 | 34-1 | 34-4 |
| 625.00 | 34-8 | 34-11 | 35-3 | 35-6 | 35-10 | 36-1 | 36-5 | 36-8 | 37-0 | 37-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 4/0 BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION

2424 LB TENSION ---------- 820.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

2424 LB TENSION ---------- 820.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

2424 LB TENSION ---------- 820.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

2424 LB TENSION ---------- 820.26


TABLE OF CONTENTS

**REFERENCE**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

4/0 BARE COPPER TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.741 | 0.38 | 2424 | 0.38 | 2424* |
| 25 | 0 | 0 | 0 | 0.654 | 0.34 | 2402 | 0.34 | 2405 |
| 30 | 0 | 0 | 0 | 0.654 | 0.36 | 2280 | 0.36 | 2298 |
| 40 | 0 | 0 | 0 | 0.654 | 0.40 | 2041 | 0.39 | 2088 |
| 50 | 0 | 0 | 0 | 0.654 | 0.45 | 1811 | 0.43 | 1883 |
| 60 | 0 | 0 | 0 | 0.654 | 0.51 | 1592 | 0.49 | 1684 |
| 70 | 0 | 0 | 0 | 0.654 | 0.59 | 1391 | 0.55 | 1495 |
| 80 | 0 | 0 | 0 | 0.654 | 0.68 | 1211 | 0.62 | 1320 |
| 90 | 0 | 0 | 0 | 0.654 | 0.77 | 1055 | 0.70 | 1163 |
| 100 | 0 | 0 | 0 | 0.654 | 0.88 | 926 | 0.80 | 1025 |
| 110 | 0 | 0 | 0 | 0.654 | 1.00 | 821 | 0.90 | 909 |
| 120 | 0 | 0 | 0 | 0.654 | 1.11 | 737 | 1.01 | 813 |
| 130 | 0 | 0 | 0 | 0.654 | 1.22 | 670 | 1.12 | 733 |
| 167 | 0 | 0 | 0 | 0.654 | 1.61 | 509 | 1.50 | 545 |
| 212 | 0 | 0 | 0 | 0.654 | 2.01 | 408 | 1.91 | 428 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.741 | 1.53 | 2424 | 1.53 | 2424* |
| 25 | 0 | 0 | 0 | 0.654 | 1.39 | 2350 | 1.39 | 2358 |
| 30 | 0 | 0 | 0 | 0.654 | 1.45 | 2251 | 1.44 | 2269 |
| 40 | 0 | 0 | 0 | 0.654 | 1.59 | 2063 | 1.56 | 2099 |
| 50 | 0 | 0 | 0 | 0.654 | 1.73 | 1890 | 1.69 | 1938 |
| 60 | 0 | 0 | 0 | 0.654 | 1.89 | 1733 | 1.83 | 1789 |
| 70 | 0 | 0 | 0 | 0.654 | 2.05 | 1593 | 1.98 | 1653 |
| 80 | 0 | 0 | 0 | 0.654 | 2.23 | 1469 | 2.14 | 1530 |
| 90 | 0 | 0 | 0 | 0.654 | 2.41 | 1360 | 2.30 | 1420 |
| 100 | 0 | 0 | 0 | 0.654 | 2.59 | 1265 | 2.47 | 1323 |
| 110 | 0 | 0 | 0 | 0.654 | 2.77 | 1183 | 2.65 | 1236 |
| 120 | 0 | 0 | 0 | 0.654 | 2.95 | 1111 | 2.82 | 1161 |
| 130 | 0 | 0 | 0 | 0.654 | 3.12 | 1048 | 2.99 | 1094 |
| 167 | 0 | 0 | 0 | 0.654 | 3.75 | 874 | 3.61 | 907 |
| 212 | 0 | 0 | 0 | 0.654 | 4.44 | 739 | 4.30 | 762 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.741 | 3.44 | 2424 | 3.44 | 2424* |
| 25 | 0 | 0 | 0 | 0.654 | 3.21 | 2296 | 3.19 | 2306 |
| 30 | 0 | 0 | 0 | 0.654 | 3.31 | 2222 | 3.29 | 2238 |
| 40 | 0 | 0 | 0 | 0.654 | 3.53 | 2084 | 3.49 | 2109 |
| 50 | 0 | 0 | 0 | 0.654 | 3.76 | 1958 | 3.70 | 1989 |
| 60 | 0 | 0 | 0 | 0.654 | 3.99 | 1844 | 3.92 | 1879 |
| 70 | 0 | 0 | 0 | 0.654 | 4.23 | 1742 | 4.14 | 1779 |
| 80 | 0 | 0 | 0 | 0.654 | 4.46 | 1649 | 4.36 | 1687 |
| 90 | 0 | 0 | 0 | 0.654 | 4.70 | 1566 | 4.59 | 1604 |
| 100 | 0 | 0 | 0 | 0.654 | 4.94 | 1492 | 4.82 | 1529 |
| 110 | 0 | 0 | 0 | 0.654 | 5.17 | 1425 | 5.04 | 1461 |
| 120 | 0 | 0 | 0 | 0.654 | 5.40 | 1364 | 5.27 | 1398 |
| 130 | 0 | 0 | 0 | 0.654 | 5.63 | 1309 | 5.49 | 1342 |
| 167 | 0 | 0 | 0 | 0.654 | 6.44 | 1145 | 6.29 | 1172 |
| 212 | 0 | 0 | 0 | 0.654 | 7.35 | 1003 | 7.20 | 1024 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.741 | 6.12 | 2424 | 6.12 | 2424* |
| 25 | 0 | 0 | 0 | 0.654 | 5.81 | 2253 | 5.78 | 2264 |
| 30 | 0 | 0 | 0 | 0.654 | 5.95 | 2199 | 5.92 | 2213 |
| 40 | 0 | 0 | 0 | 0.654 | 6.24 | 2099 | 6.19 | 2117 |
| 50 | 0 | 0 | 0 | 0.654 | 6.52 | 2007 | 6.46 | 2028 |
| 60 | 0 | 0 | 0 | 0.654 | 6.81 | 1922 | 6.73 | 1945 |
| 70 | 0 | 0 | 0 | 0.654 | 7.10 | 1845 | 7.01 | 1869 |
| 80 | 0 | 0 | 0 | 0.654 | 7.38 | 1774 | 7.28 | 1799 |
| 90 | 0 | 0 | 0 | 0.654 | 7.67 | 1709 | 7.55 | 1734 |
| 100 | 0 | 0 | 0 | 0.654 | 7.94 | 1649 | 7.82 | 1674 |
| 110 | 0 | 0 | 0 | 0.654 | 8.22 | 1594 | 8.09 | 1619 |
| 120 | 0 | 0 | 0 | 0.654 | 8.49 | 1543 | 8.36 | 1567 |
| 130 | 0 | 0 | 0 | 0.654 | 8.76 | 1496 | 8.62 | 1520 |
| 167 | 0 | 0 | 0 | 0.654 | 9.72 | 1349 | 9.57 | 1370 |
| 212 | 0 | 0 | 0 | 0.654 | 10.82 | 1213 | 10.66 | 1231 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.741 | 9.56 | 2424 | 9.56 | 2424* |
| 25 | 0 | 0 | 0 | 0.654 | 9.21 | 2223 | 9.17 | 2233 |
| 30 | 0 | 0 | 0 | 0.654 | 9.37 | 2184 | 9.33 | 2195 |
| 40 | 0 | 0 | 0 | 0.654 | 9.70 | 2109 | 9.64 | 2123 |
| 50 | 0 | 0 | 0 | 0.654 | 10.03 | 2040 | 9.96 | 2055 |
| 60 | 0 | 0 | 0 | 0.654 | 10.36 | 1976 | 10.28 | 1992 |
| 70 | 0 | 0 | 0 | 0.654 | 10.68 | 1916 | 10.59 | 1933 |
| 80 | 0 | 0 | 0 | 0.654 | 11.00 | 1861 | 10.90 | 1878 |
| 90 | 0 | 0 | 0 | 0.654 | 11.32 | 1809 | 11.21 | 1827 |
| 100 | 0 | 0 | 0 | 0.654 | 11.64 | 1760 | 11.52 | 1778 |
| 110 | 0 | 0 | 0 | 0.654 | 11.94 | 1715 | 11.82 | 1733 |
| 120 | 0 | 0 | 0 | 0.654 | 12.25 | 1672 | 12.12 | 1690 |
| 130 | 0 | 0 | 0 | 0.654 | 12.55 | 1632 | 12.42 | 1650 |
| 167 | 0 | 0 | 0 | 0.654 | 13.64 | 1503 | 13.49 | 1520 |
| 212 | 0 | 0 | 0 | 0.654 | 14.88 | 1378 | 14.72 | 1393 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 2 | 0- 2 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 |
| 100.00 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0-10 | 0-11 |
| 125.00 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 1- 0 | 1- 1 | 1- 3 | 1- 5 |
| 150.00 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 3 | 1- 5 | 1- 7 | 1-10 | 2- 0 |
| 175.00 | 1- 0 | 1- 1 | 1- 2 | 1- 4 | 1- 6 | 1- 8 | 1-11 | 2- 2 | 2- 5 | 2- 9 |
| 200.00 | 1- 4 | 1- 5 | 1- 7 | 1- 9 | 1-11 | 2- 2 | 2- 6 | 2-10 | 3- 2 | 3- 7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 2 | 0- 2 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 7 |
| 100.00 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0-11 | 1- 0 |
| 125.00 | 0- 6 | 0- 7 | 0- 8 | 0- 8 | 0-10 | 0-11 | 1- 1 | 1- 3 | 1- 5 | 1- 7 |
| 150.00 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 2 | 1- 4 | 1- 6 | 1- 9 | 2- 0 | 2- 3 |
| 175.00 | 1- 0 | 1- 1 | 1- 3 | 1- 5 | 1- 7 | 1-10 | 2- 1 | 2- 4 | 2- 8 | 3- 1 |
| 200.00 | 1- 4 | 1- 5 | 1- 7 | 1-10 | 2- 1 | 2- 4 | 2- 8 | 3- 1 | 3- 6 | 4- 0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 8 |
| 125.00 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 0 |
| 150.00 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 4 | 1- 5 | 1- 6 |
| 175.00 | 1- 0 | 1- 1 | 1- 2 | 1- 4 | 1- 5 | 1- 6 | 1- 8 | 1- 9 | 1-11 | 2- 0 |
| 200.00 | 1- 4 | 1- 5 | 1- 7 | 1- 8 | 1-10 | 2- 0 | 2- 2 | 2- 4 | 2- 6 | 2- 8 |
| 225.00 | 1- 8 | 1-10 | 2- 0 | 2- 2 | 2- 4 | 2- 6 | 2- 8 | 2-11 | 3- 2 | 3- 4 |
| 250.00 | 2- 1 | 2- 3 | 2- 5 | 2- 8 | 2-10 | 3- 1 | 3- 4 | 3- 7 | 3-10 | 4- 2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 8 |
| 125.00 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-10 | 0-11 | 1- 0 | 1- 1 |
| 150.00 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 7 |
| 175.00 | 1- 0 | 1- 1 | 1- 3 | 1- 4 | 1- 5 | 1- 7 | 1- 8 | 1-10 | 2- 0 | 2- 1 |
| 200.00 | 1- 4 | 1- 5 | 1- 7 | 1- 9 | 1-11 | 2- 1 | 2- 3 | 2- 5 | 2- 7 | 2- 9 |
| 225.00 | 1- 8 | 1-10 | 2- 0 | 2- 2 | 2- 5 | 2- 7 | 2-10 | 3- 1 | 3- 3 | 3- 6 |
| 250.00 | 2- 1 | 2- 3 | 2- 6 | 2- 8 | 2-11 | 3- 3 | 3- 6 | 3- 9 | 4- 1 | 4- 4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0- 9 | 0-10 | 0-10 | 0-11 | 1- 0 | 1- 0 | 1- 1 | 1- 2 | 1- 2 | 1- 3 |
| 175.00 | 1- 1 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 | 1- 8 | 1- 9 |
| 200.00 | 1- 5 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 0 | 2- 2 | 2- 3 |
| 225.00 | 1- 9 | 1-10 | 2- 0 | 2- 1 | 2- 2 | 2- 4 | 2- 5 | 2- 7 | 2- 9 | 2-10 |
| 250.00 | 2- 2 | 2- 3 | 2- 5 | 2- 7 | 2- 9 | 2-10 | 3- 0 | 3- 2 | 3- 4 | 3- 6 |
| 275.00 | 2- 7 | 2- 9 | 2-11 | 3- 1 | 3- 4 | 3- 6 | 3- 8 | 3-10 | 4- 1 | 4- 3 |
| 300.00 | 3- 1 | 3- 3 | 3- 6 | 3- 8 | 3-11 | 4- 2 | 4- 4 | 4- 7 | 4-10 | 5- 1 |
| 325.00 | 3- 8 | 3-10 | 4- 1 | 4- 4 | 4- 7 | 4-10 | 5- 1 | 5- 5 | 5- 8 | 5-11 |
| 350.00 | 4- 3 | 4- 6 | 4- 9 | 5- 0 | 5- 4 | 5- 8 | 5-11 | 6- 3 | 6- 7 | 6-10 |
| 375.00 | 4-10 | 5- 2 | 5- 5 | 5- 9 | 6- 1 | 6- 6 | 6-10 | 7- 2 | 7- 6 | 7-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 0 | 1- 1 | 1- 1 | 1- 2 | 1- 3 | 1- 4 |
| 175.00 | 1- 1 | 1- 2 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 | 1- 8 | 1- 9 |
| 200.00 | 1- 5 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-11 | 2- 0 | 2- 1 | 2- 2 | 2- 4 |
| 225.00 | 1- 9 | 1-10 | 2- 0 | 2- 1 | 2- 3 | 2- 5 | 2- 6 | 2- 8 | 2- 9 | 2-11 |
| 250.00 | 2- 2 | 2- 4 | 2- 5 | 2- 7 | 2- 9 | 2-11 | 3- 1 | 3- 3 | 3- 5 | 3- 7 |
| 275.00 | 2- 7 | 2- 9 | 3- 0 | 3- 2 | 3- 4 | 3- 7 | 3- 9 | 3-11 | 4- 2 | 4- 4 |
| 300.00 | 3- 1 | 3- 4 | 3- 6 | 3- 9 | 4- 0 | 4- 3 | 4- 6 | 4- 8 | 4-11 | 5- 2 |
| 325.00 | 3- 8 | 3-11 | 4- 2 | 4- 5 | 4- 8 | 5- 0 | 5- 3 | 5- 6 | 5-10 | 6- 1 |
| 350.00 | 4- 3 | 4- 6 | 4-10 | 5- 1 | 5- 5 | 5- 9 | 6- 1 | 6- 5 | 6- 9 | 7- 0 |
| 375.00 | 4-10 | 5- 2 | 5- 6 | 5-11 | 6- 3 | 6- 7 | 7- 0 | 7- 4 | 7- 9 | 8- 1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1- 5 | 1- 6 | 1- 7 | 1- 7 | 1- 8 | 1- 9 | 1-10 | 1-11 | 1-11 | 2- 0 |
| 225.00 | 1- 9 | 1-10 | 1-11 | 2- 1 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 6 | 2- 7 |
| 250.00 | 2- 2 | 2- 4 | 2- 5 | 2- 6 | 2- 8 | 2- 9 | 2-10 | 2-11 | 3- 1 | 3- 2 |
| 275.00 | 2- 8 | 2-10 | 2-11 | 3- 1 | 3- 2 | 3- 4 | 3- 5 | 3- 7 | 3- 8 | 3-10 |
| 300.00 | 3- 2 | 3- 4 | 3- 6 | 3- 8 | 3- 9 | 3-11 | 4- 1 | 4- 3 | 4- 5 | 4- 7 |
| 325.00 | 3- 9 | 3-11 | 4- 1 | 4- 3 | 4- 5 | 4- 7 | 4-10 | 5- 0 | 5- 2 | 5- 4 |
| 350.00 | 4- 4 | 4- 6 | 4- 9 | 4-11 | 5- 2 | 5- 4 | 5- 7 | 5- 9 | 6- 0 | 6- 2 |
| 375.00 | 5- 0 | 5- 2 | 5- 5 | 5- 8 | 5-11 | 6- 2 | 6- 5 | 6- 8 | 6-11 | 7- 1 |
| 400.00 | 5- 8 | 5-11 | 6- 2 | 6- 5 | 6- 9 | 7- 0 | 7- 3 | 7- 7 | 7-10 | 8- 1 |
| 425.00 | 6- 5 | 6- 8 | 7- 0 | 7- 3 | 7- 7 | 7-11 | 8- 3 | 8- 6 | 8-10 | 9- 2 |
| 450.00 | 7- 2 | 7- 6 | 7-10 | 8- 2 | 8- 6 | 8-10 | 9- 3 | 9- 7 | 9-11 | 10- 3 |
| 475.00 | 8- 0 | 8- 4 | 8- 9 | 9- 1 | 9- 6 | 9-11 | 10- 3 | 10- 8 | 11- 0 | 11- 5 |
| 500.00 | 8-10 | 9- 3 | 9- 8 | 10- 1 | 10- 6 | 10-11 | 11- 5 | 11-10 | 12- 3 | 12- 8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1- 5 | 1- 6 | 1- 7 | 1- 8 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 0 | 2- 1 |
| 225.00 | 1-10 | 1-11 | 2- 0 | 2- 1 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 6 | 2- 7 |
| 250.00 | 2- 3 | 2- 4 | 2- 5 | 2- 7 | 2- 8 | 2- 9 | 2-11 | 3- 0 | 3- 1 | 3- 3 |
| 275.00 | 2- 8 | 2-10 | 2-11 | 3- 1 | 3- 3 | 3- 4 | 3- 6 | 3- 7 | 3- 9 | 3-11 |
| 300.00 | 3- 2 | 3- 4 | 3- 6 | 3- 8 | 3-10 | 4- 0 | 4- 2 | 4- 4 | 4- 6 | 4- 7 |
| 325.00 | 3- 9 | 3-11 | 4- 1 | 4- 4 | 4- 6 | 4- 8 | 4-10 | 5- 1 | 5- 3 | 5- 5 |
| 350.00 | 4- 4 | 4- 7 | 4- 9 | 5- 0 | 5- 3 | 5- 5 | 5- 8 | 5-10 | 6- 1 | 6- 4 |
| 375.00 | 5- 0 | 5- 3 | 5- 6 | 5- 9 | 6- 0 | 6- 3 | 6- 6 | 6- 9 | 7- 0 | 7- 3 |
| 400.00 | 5- 8 | 5-11 | 6- 3 | 6- 6 | 6-10 | 7- 1 | 7- 5 | 7- 8 | 7-11 | 8- 3 |
| 425.00 | 6- 5 | 6- 9 | 7- 1 | 7- 4 | 7- 8 | 8- 0 | 8- 4 | 8- 8 | 9- 0 | 9- 3 |
| 450.00 | 7- 2 | 7- 6 | 7-11 | 8- 3 | 8- 7 | 9- 0 | 9- 4 | 9- 8 | 10- 1 | 10- 5 |
| 475.00 | 8- 0 | 8- 5 | 8-10 | 9- 2 | 9- 7 | 10- 0 | 10- 5 | 10-10 | 11- 2 | 11- 7 |
| 500.00 | 8-10 | 9- 4 | 9- 9 | 10- 2 | 10- 8 | 11- 1 | 11- 6 | 12- 0 | 12- 5 | 12-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2- 3 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 | 2-11 |
| 275.00 | 2- 9 | 2-10 | 2-11 | 3- 0 | 3- 1 | 3- 2 | 3- 4 | 3- 5 | 3- 6 | 3- 7 |
| 300.00 | 3- 3 | 3- 4 | 3- 6 | 3- 7 | 3- 8 | 3-10 | 3-11 | 4- 0 | 4- 2 | 4- 3 |
| 325.00 | 3-10 | 3-11 | 4- 1 | 4- 2 | 4- 4 | 4- 6 | 4- 7 | 4- 9 | 4-10 | 5- 0 |
| 350.00 | 4- 5 | 4- 7 | 4- 9 | 4-11 | 5- 0 | 5- 2 | 5- 4 | 5- 6 | 5- 8 | 5- 9 |
| 375.00 | 5- 1 | 5- 3 | 5- 5 | 5- 7 | 5- 9 | 5-11 | 6- 2 | 6- 4 | 6- 6 | 6- 8 |
| 400.00 | 5- 9 | 6- 0 | 6- 2 | 6- 4 | 6- 7 | 6- 9 | 7- 0 | 7- 2 | 7- 4 | 7- 7 |
| 425.00 | 6- 6 | 6- 9 | 7- 0 | 7- 2 | 7- 5 | 7- 8 | 7-11 | 8- 1 | 8- 4 | 8- 6 |
| 450.00 | 7- 4 | 7- 7 | 7-10 | 8- 1 | 8- 4 | 8- 7 | 8-10 | 9- 1 | 9- 4 | 9- 7 |
| 475.00 | 8- 2 | 8- 5 | 8- 8 | 9- 0 | 9- 3 | 9- 7 | 9-10 | 10- 1 | 10- 5 | 10- 8 |
| 500.00 | 9- 0 | 9- 4 | 9- 8 | 10- 0 | 10- 3 | 10- 7 | 10-11 | 11- 3 | 11- 6 | 11-10 |
| 525.00 | 9-11 | 10- 3 | 10- 8 | 11- 0 | 11- 4 | 11- 8 | 12- 0 | 12- 4 | 12- 8 | 13- 0 |
| 550.00 | 10-11 | 11- 3 | 11- 8 | 12- 1 | 12- 5 | 12-10 | 13- 2 | 13- 7 | 13-11 | 14- 4 |
| 575.00 | 11-11 | 12- 4 | 12- 9 | 13- 2 | 13- 7 | 14- 0 | 14- 5 | 14-10 | 15- 3 | 15- 8 |
| 600.00 | 13- 0 | 13- 5 | 13-11 | 14- 4 | 14-10 | 15- 3 | 15- 8 | 16- 2 | 16- 7 | 17- 0 |
| 625.00 | 14- 1 | 14- 7 | 15- 1 | 15- 7 | 16- 1 | 16- 7 | 17- 0 | 17- 6 | 18- 0 | 18- 6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2- 3 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 | 3- 0 |
| 275.00 | 2- 9 | 2-10 | 2-11 | 3- 0 | 3- 2 | 3- 3 | 3- 4 | 3- 5 | 3- 6 | 3- 7 |
| 300.00 | 3- 3 | 3- 4 | 3- 6 | 3- 7 | 3- 9 | 3-10 | 4- 0 | 4- 1 | 4- 2 | 4- 4 |
| 325.00 | 3-10 | 4- 0 | 4- 1 | 4- 3 | 4- 5 | 4- 6 | 4- 8 | 4- 9 | 4-11 | 5- 1 |
| 350.00 | 4- 5 | 4- 7 | 4- 9 | 4-11 | 5- 1 | 5- 3 | 5- 5 | 5- 7 | 5- 8 | 5-10 |
| 375.00 | 5- 1 | 5- 3 | 5- 5 | 5- 8 | 5-10 | 6- 0 | 6- 2 | 6- 4 | 6- 7 | 6- 9 |
| 400.00 | 5- 9 | 6- 0 | 6- 3 | 6- 5 | 6- 8 | 6-10 | 7- 0 | 7- 3 | 7- 5 | 7- 8 |
| 425.00 | 6- 6 | 6- 9 | 7- 0 | 7- 3 | 7- 6 | 7- 9 | 7-11 | 8- 2 | 8- 5 | 8- 8 |
| 450.00 | 7- 4 | 7- 7 | 7-10 | 8- 2 | 8- 5 | 8- 8 | 8-11 | 9- 2 | 9- 5 | 9- 8 |
| 475.00 | 8- 2 | 8- 5 | 8- 9 | 9- 1 | 9- 4 | 9- 8 | 9-11 | 10- 3 | 10- 6 | 10- 9 |
| 500.00 | 9- 0 | 9- 4 | 9- 8 | 10- 0 | 10- 4 | 10- 8 | 11- 0 | 11- 4 | 11- 8 | 11-11 |
| 525.00 | 10- 0 | 10- 4 | 10- 8 | 11- 1 | 11- 5 | 11- 9 | 12- 2 | 12- 6 | 12-10 | 13- 2 |
| 550.00 | 10-11 | 11- 4 | 11- 9 | 12- 2 | 12- 6 | 12-11 | 13- 4 | 13- 8 | 14- 1 | 14- 5 |
| 575.00 | 11-11 | 12- 5 | 12-10 | 13- 3 | 13- 8 | 14- 2 | 14- 7 | 15- 0 | 15- 5 | 15-10 |
| 600.00 | 13- 0 | 13- 6 | 14- 0 | 14- 5 | 14-11 | 15- 5 | 15-10 | 16- 4 | 16- 9 | 17- 2 |
| 625.00 | 14- 2 | 14- 8 | 15- 2 | 15- 8 | 16- 2 | 16- 8 | 17- 2 | 17- 8 | 18- 2 | 18- 8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.805 | 0.42 | 2424 | 0.42 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 0.27 | 3029 | 0.27 | 3029 |
| 30 | 0 | 0 | 0 | 0.654 | 0.29 | 2816 | 0.29 | 2816 |
| 40 | 0 | 0 | 0 | 0.654 | 0.31 | 2602 | 0.31 | 2602 |
| 50 | 0 | 0 | 0 | 0.654 | 0.34 | 2383 | 0.34 | 2389 |
| 60 | 0 | 0 | 0 | 0.654 | 0.38 | 2141 | 0.38 | 2177 |
| 70 | 0 | 0 | 0 | 0.654 | 0.43 | 1907 | 0.42 | 1969 |
| 80 | 0 | 0 | 0 | 0.654 | 0.49 | 1683 | 0.46 | 1767 |
| 90 | 0 | 0 | 0 | 0.654 | 0.55 | 1474 | 0.52 | 1574 |
| 100 | 0 | 0 | 0 | 0.654 | 0.64 | 1284 | 0.59 | 1393 |
| 110 | 0 | 0 | 0 | 0.654 | 0.73 | 1118 | 0.67 | 1227 |
| 120 | 0 | 0 | 0 | 0.654 | 0.84 | 978 | 0.76 | 1081 |
| 130 | 0 | 0 | 0 | 0.654 | 0.95 | 863 | 0.86 | 956 |
| 167 | 0 | 0 | 0 | 0.654 | 1.36 | 601 | 1.25 | 653 |
| 212 | 0 | 0 | 0 | 0.654 | 1.80 | 455 | 1.70 | 481 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.805 | 1.66 | 2424 | 1.66 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 1.14 | 2864 | 1.14 | 2864 |
| 30 | 0 | 0 | 0 | 0.654 | 1.22 | 2672 | 1.22 | 2672 |
| 40 | 0 | 0 | 0 | 0.654 | 1.32 | 2485 | 1.32 | 2485 |
| 50 | 0 | 0 | 0 | 0.654 | 1.43 | 2290 | 1.42 | 2304 |
| 60 | 0 | 0 | 0 | 0.654 | 1.56 | 2099 | 1.53 | 2132 |
| 70 | 0 | 0 | 0 | 0.654 | 1.70 | 1923 | 1.66 | 1969 |
| 80 | 0 | 0 | 0 | 0.654 | 1.86 | 1763 | 1.80 | 1818 |
| 90 | 0 | 0 | 0 | 0.654 | 2.02 | 1619 | 1.95 | 1679 |
| 100 | 0 | 0 | 0 | 0.654 | 2.19 | 1492 | 2.11 | 1553 |
| 110 | 0 | 0 | 0 | 0.654 | 2.37 | 1380 | 2.27 | 1441 |
| 120 | 0 | 0 | 0 | 0.654 | 2.55 | 1283 | 2.44 | 1341 |
| 130 | 0 | 0 | 0 | 0.654 | 2.73 | 1198 | 2.61 | 1253 |
| 167 | 0 | 0 | 0 | 0.654 | 3.38 | 968 | 3.25 | 1008 |
| 212 | 0 | 0 | 0 | 0.654 | 4.11 | 797 | 3.97 | 825 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.805 | 3.74 | 2424 | 3.74 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 2.77 | 2653 | 2.77 | 2653 |
| 30 | 0 | 0 | 0 | 0.654 | 2.95 | 2498 | 2.95 | 2498 |
| 40 | 0 | 0 | 0 | 0.654 | 3.14 | 2345 | 3.13 | 2352 |
| 50 | 0 | 0 | 0 | 0.654 | 3.35 | 2196 | 3.32 | 2215 |
| 60 | 0 | 0 | 0 | 0.654 | 3.57 | 2060 | 3.53 | 2087 |
| 70 | 0 | 0 | 0 | 0.654 | 3.80 | 1937 | 3.74 | 1969 |
| 80 | 0 | 0 | 0 | 0.654 | 4.03 | 1825 | 3.96 | 1861 |
| 90 | 0 | 0 | 0 | 0.654 | 4.27 | 1725 | 4.18 | 1762 |
| 100 | 0 | 0 | 0 | 0.654 | 4.51 | 1634 | 4.40 | 1672 |
| 110 | 0 | 0 | 0 | 0.654 | 4.74 | 1553 | 4.63 | 1590 |
| 120 | 0 | 0 | 0 | 0.654 | 4.98 | 1479 | 4.86 | 1516 |
| 130 | 0 | 0 | 0 | 0.654 | 5.21 | 1413 | 5.08 | 1449 |
| 167 | 0 | 0 | 0 | 0.654 | 6.05 | 1219 | 5.90 | 1249 |
| 212 | 0 | 0 | 0 | 0.654 | 6.99 | 1055 | 6.84 | 1078 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.805 | 6.65 | 2424 | 6.65 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 5.32 | 2462 | 5.32 | 2462 |
| 30 | 0 | 0 | 0 | 0.654 | 5.59 | 2343 | 5.57 | 2349 |
| 40 | 0 | 0 | 0 | 0.654 | 5.87 | 2231 | 5.84 | 2243 |
| 50 | 0 | 0 | 0 | 0.654 | 6.15 | 2128 | 6.11 | 2144 |
| 60 | 0 | 0 | 0 | 0.654 | 6.44 | 2033 | 6.38 | 2053 |
| 70 | 0 | 0 | 0 | 0.654 | 6.73 | 1946 | 6.65 | 1969 |
| 80 | 0 | 0 | 0 | 0.654 | 7.01 | 1867 | 6.92 | 1891 |
| 90 | 0 | 0 | 0 | 0.654 | 7.30 | 1794 | 7.20 | 1819 |
| 100 | 0 | 0 | 0 | 0.654 | 7.58 | 1727 | 7.47 | 1753 |
| 110 | 0 | 0 | 0 | 0.654 | 7.86 | 1666 | 7.74 | 1691 |
| 120 | 0 | 0 | 0 | 0.654 | 8.14 | 1610 | 8.01 | 1635 |
| 130 | 0 | 0 | 0 | 0.654 | 8.41 | 1557 | 8.28 | 1582 |
| 167 | 0 | 0 | 0 | 0.654 | 9.39 | 1396 | 9.24 | 1418 |
| 212 | 0 | 0 | 0 | 0.654 | 10.51 | 1248 | 10.35 | 1267 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 0.805 | 10.40 | 2424 | 10.40 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 8.83 | 2316 | 8.81 | 2322 |
| 30 | 0 | 0 | 0 | 0.654 | 9.17 | 2232 | 9.13 | 2241 |
| 40 | 0 | 0 | 0 | 0.654 | 9.50 | 2154 | 9.45 | 2166 |
| 50 | 0 | 0 | 0 | 0.654 | 9.83 | 2082 | 9.77 | 2096 |
| 60 | 0 | 0 | 0 | 0.654 | 10.16 | 2015 | 10.08 | 2030 |
| 70 | 0 | 0 | 0 | 0.654 | 10.49 | 1953 | 10.40 | 1969 |
| 80 | 0 | 0 | 0 | 0.654 | 10.81 | 1894 | 10.71 | 1911 |
| 90 | 0 | 0 | 0 | 0.654 | 11.13 | 1840 | 11.02 | 1858 |
| 100 | 0 | 0 | 0 | 0.654 | 11.44 | 1790 | 11.33 | 1807 |
| 110 | 0 | 0 | 0 | 0.654 | 11.76 | 1742 | 11.64 | 1760 |
| 120 | 0 | 0 | 0 | 0.654 | 12.06 | 1698 | 11.94 | 1716 |
| 130 | 0 | 0 | 0 | 0.654 | 12.37 | 1656 | 12.24 | 1674 |
| 167 | 0 | 0 | 0 | 0.654 | 13.46 | 1523 | 13.31 | 1539 |
| 212 | 0 | 0 | 0 | 0.654 | 14.72 | 1394 | 14.56 | 1408 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 4 |
| 100.00 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 8 |
| 125.00 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 0 |
| 150.00 | 0- 7 | 0- 8 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 2 | 1- 4 | 1- 6 |
| 175.00 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 5 | 1- 7 | 1-10 | 2- 0 |
| 200.00 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 6 | 1- 8 | 1-10 | 2- 1 | 2- 4 | 2- 8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 5 |
| 100.00 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 7 | 0- 8 | 0- 9 |
| 125.00 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 1- 0 | 1- 2 |
| 150.00 | 0- 7 | 0- 8 | 0- 8 | 0- 9 | 0-10 | 1- 0 | 1- 1 | 1- 3 | 1- 5 | 1- 8 |
| 175.00 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 4 | 1- 6 | 1- 8 | 1-11 | 2- 3 |
| 200.00 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 6 | 1- 9 | 1-11 | 2- 3 | 2- 7 | 2-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 3 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 |
| 125.00 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 8 | 0- 9 | 0-10 | 0-11 |
| 150.00 | 0- 8 | 0- 8 | 0- 9 | 0-10 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 3 |
| 175.00 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 5 | 1- 6 | 1- 7 | 1- 9 |
| 200.00 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 8 | 1-10 | 1-11 | 2- 1 | 2- 3 |
| 225.00 | 1- 5 | 1- 7 | 1- 8 | 1-10 | 1-11 | 2- 1 | 2- 3 | 2- 6 | 2- 8 | 2-10 |
| 250.00 | 1- 9 | 1-11 | 2- 1 | 2- 3 | 2- 5 | 2- 7 | 2-10 | 3- 1 | 3- 3 | 3- 7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 3 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 7 |
| 125.00 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0- 9 | 0-10 | 0-11 |
| 150.00 | 0- 8 | 0- 8 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 1 | 1- 2 | 1- 3 | 1- 4 |
| 175.00 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 4 | 1- 5 | 1- 7 | 1- 8 | 1-10 |
| 200.00 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 7 | 1- 8 | 1-10 | 2- 0 | 2- 2 | 2- 4 |
| 225.00 | 1- 5 | 1- 7 | 1- 8 | 1-10 | 2- 0 | 2- 2 | 2- 4 | 2- 7 | 2- 9 | 3- 0 |
| 250.00 | 1- 9 | 1-11 | 2- 1 | 2- 3 | 2- 5 | 2- 8 | 2-11 | 3- 2 | 3- 5 | 3- 8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0- 8 | 0- 9 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 0 | 1- 1 | 1- 1 | 1- 2 |
| 175.00 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 |
| 200.00 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 1 |
| 225.00 | 1- 7 | 1- 8 | 1- 9 | 1-10 | 2- 0 | 2- 1 | 2- 3 | 2- 4 | 2- 6 | 2- 7 |
| 250.00 | 1-11 | 2- 1 | 2- 2 | 2- 4 | 2- 5 | 2- 7 | 2- 9 | 2-11 | 3- 1 | 3- 3 |
| 275.00 | 2- 4 | 2- 6 | 2- 8 | 2-10 | 3- 0 | 3- 2 | 3- 4 | 3- 6 | 3- 8 | 3-11 |
| 300.00 | 2- 9 | 2-11 | 3- 2 | 3- 4 | 3- 6 | 3- 9 | 3-11 | 4- 2 | 4- 5 | 4- 8 |
| 325.00 | 3- 3 | 3- 5 | 3- 8 | 3-11 | 4- 2 | 4- 5 | 4- 8 | 4-11 | 5- 2 | 5- 5 |
| 350.00 | 3- 9 | 4- 0 | 4- 3 | 4- 6 | 4-10 | 5- 1 | 5- 5 | 5- 8 | 6- 0 | 6- 4 |
| 375.00 | 4- 4 | 4- 7 | 4-11 | 5- 2 | 5- 6 | 5-10 | 6- 2 | 6- 6 | 6-11 | 7- 3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0- 8 | 0- 9 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 2 |
| 175.00 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 4 | 1- 5 | 1- 6 | 1- 7 |
| 200.00 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 | 1- 8 | 1-10 | 1-11 | 2- 0 | 2- 1 |
| 225.00 | 1- 7 | 1- 8 | 1- 9 | 1-11 | 2- 0 | 2- 2 | 2- 3 | 2- 5 | 2- 6 | 2- 8 |
| 250.00 | 1-11 | 2- 1 | 2- 2 | 2- 4 | 2- 6 | 2- 8 | 2-10 | 3- 0 | 3- 2 | 3- 4 |
| 275.00 | 2- 4 | 2- 6 | 2- 8 | 2-10 | 3- 0 | 3- 2 | 3- 5 | 3- 7 | 3- 9 | 4- 0 |
| 300.00 | 2- 9 | 2-11 | 3- 2 | 3- 4 | 3- 7 | 3-10 | 4- 0 | 4- 3 | 4- 6 | 4- 9 |
| 325.00 | 3- 3 | 3- 5 | 3- 8 | 3-11 | 4- 2 | 4- 6 | 4- 9 | 5- 0 | 5- 3 | 5- 7 |
| 350.00 | 3- 9 | 4- 0 | 4- 3 | 4- 7 | 4-10 | 5- 2 | 5- 6 | 5-10 | 6- 2 | 6- 5 |
| 375.00 | 4- 4 | 4- 7 | 4-11 | 5- 3 | 5- 7 | 5-11 | 6- 4 | 6- 8 | 7- 1 | 7- 5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1- 4 | 1- 5 | 1- 6 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-10 | 1-10 | 1-11 |
| 225.00 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 0 | 2- 1 | 2- 2 | 2- 3 | 2- 4 | 2- 5 |
| 250.00 | 2- 1 | 2- 2 | 2- 3 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2-10 | 2-11 | 3- 0 |
| 275.00 | 2- 6 | 2- 8 | 2- 9 | 2-11 | 3- 0 | 3- 2 | 3- 3 | 3- 5 | 3- 6 | 3- 8 |
| 300.00 | 3- 0 | 3- 2 | 3- 3 | 3- 5 | 3- 7 | 3- 9 | 3-11 | 4- 1 | 4- 2 | 4- 4 |
| 325.00 | 3- 6 | 3- 8 | 3-10 | 4- 0 | 4- 3 | 4- 5 | 4- 7 | 4- 9 | 4-11 | 5- 1 |
| 350.00 | 4- 1 | 4- 3 | 4- 6 | 4- 8 | 4-11 | 5- 1 | 5- 4 | 5- 6 | 5- 9 | 5-11 |
| 375.00 | 4- 8 | 4-11 | 5- 2 | 5- 4 | 5- 7 | 5-10 | 6- 1 | 6- 4 | 6- 7 | 6-10 |
| 400.00 | 5- 4 | 5- 7 | 5-10 | 6- 1 | 6- 5 | 6- 8 | 6-11 | 7- 2 | 7- 6 | 7- 9 |
| 425.00 | 6- 0 | 6- 4 | 6- 7 | 6-11 | 7- 2 | 7- 6 | 7-10 | 8- 2 | 8- 5 | 8- 9 |
| 450.00 | 6- 9 | 7- 1 | 7- 5 | 7- 9 | 8- 1 | 8- 5 | 8- 9 | 9- 1 | 9- 6 | 9-10 |
| 475.00 | 7- 6 | 7-10 | 8- 3 | 8- 7 | 9- 0 | 9- 5 | 9- 9 | 10- 2 | 10- 6 | 10-11 |
| 500.00 | 8- 4 | 8- 9 | 9- 1 | 9- 6 | 10- 0 | 10- 5 | 10-10 | 11- 3 | 11- 8 | 12- 1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1- 4 | 1- 5 | 1- 6 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 0 |
| 225.00 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 0 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 6 |
| 250.00 | 2- 1 | 2- 2 | 2- 4 | 2- 5 | 2- 6 | 2- 8 | 2- 9 | 2-10 | 3- 0 | 3- 1 |
| 275.00 | 2- 6 | 2- 8 | 2- 9 | 2-11 | 3- 1 | 3- 2 | 3- 4 | 3- 5 | 3- 7 | 3- 9 |
| 300.00 | 3- 0 | 3- 2 | 3- 4 | 3- 6 | 3- 7 | 3- 9 | 3-11 | 4- 1 | 4- 3 | 4- 5 |
| 325.00 | 3- 6 | 3- 8 | 3-10 | 4- 1 | 4- 3 | 4- 5 | 4- 8 | 4-10 | 5- 0 | 5- 2 |
| 350.00 | 4- 1 | 4- 3 | 4- 6 | 4- 9 | 4-11 | 5- 2 | 5- 4 | 5- 7 | 5-10 | 6- 0 |
| 375.00 | 4- 8 | 4-11 | 5- 2 | 5- 5 | 5- 8 | 5-11 | 6- 2 | 6- 5 | 6- 8 | 6-11 |
| 400.00 | 5- 4 | 5- 7 | 5-10 | 6- 2 | 6- 5 | 6- 9 | 7- 0 | 7- 4 | 7- 7 | 7-10 |
| 425.00 | 6- 0 | 6- 4 | 6- 8 | 6-11 | 7- 3 | 7- 7 | 7-11 | 8- 3 | 8- 7 | 8-11 |
| 450.00 | 6- 9 | 7- 1 | 7- 5 | 7- 9 | 8- 2 | 8- 6 | 8-11 | 9- 3 | 9- 7 | 9-11 |
| 475.00 | 7- 6 | 7-11 | 8- 3 | 8- 8 | 9- 1 | 9- 6 | 9-11 | 10- 4 | 10- 8 | 11- 1 |
| 500.00 | 8- 4 | 8- 9 | 9- 2 | 9- 7 | 10- 1 | 10- 6 | 11- 0 | 11- 5 | 11-10 | 12- 3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 |
| 275.00 | 2- 8 | 2- 9 | 2-10 | 2-11 | 3- 1 | 3- 2 | 3- 3 | 3- 4 | 3- 5 | 3- 6 |
| 300.00 | 3- 2 | 3- 3 | 3- 5 | 3- 6 | 3- 8 | 3- 9 | 3-10 | 4- 0 | 4- 1 | 4- 2 |
| 325.00 | 3- 9 | 3-10 | 4- 0 | 4- 2 | 4- 3 | 4- 5 | 4- 6 | 4- 8 | 4- 9 | 4-11 |
| 350.00 | 4- 4 | 4- 6 | 4- 8 | 4- 9 | 4-11 | 5- 1 | 5- 3 | 5- 5 | 5- 7 | 5- 8 |
| 375.00 | 4-11 | 5- 2 | 5- 4 | 5- 6 | 5- 8 | 5-10 | 6- 0 | 6- 2 | 6- 4 | 6- 7 |
| 400.00 | 5- 8 | 5-10 | 6- 1 | 6- 3 | 6- 5 | 6- 8 | 6-10 | 7- 1 | 7- 3 | 7- 5 |
| 425.00 | 6- 4 | 6- 7 | 6-10 | 7- 1 | 7- 3 | 7- 6 | 7- 9 | 8- 0 | 8- 2 | 8- 5 |
| 450.00 | 7- 2 | 7- 5 | 7- 8 | 7-11 | 8- 2 | 8- 5 | 8- 8 | 8-11 | 9- 2 | 9- 5 |
| 475.00 | 7-11 | 8- 3 | 8- 6 | 8-10 | 9- 1 | 9- 5 | 9- 8 | 9-11 | 10- 3 | 10- 6 |
| 500.00 | 8-10 | 9- 2 | 9- 5 | 9- 9 | 10- 1 | 10- 5 | 10- 9 | 11- 0 | 11- 4 | 11- 8 |
| 525.00 | 9- 9 | 10- 1 | 10- 5 | 10- 9 | 11- 1 | 11- 6 | 11-10 | 12- 2 | 12- 6 | 12-10 |
| 550.00 | 10- 8 | 11- 1 | 11- 5 | 11-10 | 12- 2 | 12- 7 | 13- 0 | 13- 4 | 13- 9 | 14- 1 |
| 575.00 | 11- 8 | 12- 1 | 12- 6 | 12-11 | 13- 4 | 13- 9 | 14- 2 | 14- 7 | 15- 0 | 15- 5 |
| 600.00 | 12- 8 | 13- 2 | 13- 7 | 14- 1 | 14- 6 | 15- 0 | 15- 5 | 15-11 | 16- 4 | 16- 9 |
| 625.00 | 13- 9 | 14- 3 | 14- 9 | 15- 3 | 15- 9 | 16- 3 | 16- 9 | 17- 3 | 17- 9 | 18- 2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 |
| 275.00 | 2- 8 | 2- 9 | 2-10 | 3- 0 | 3- 1 | 3- 2 | 3- 3 | 3- 4 | 3- 6 | 3- 7 |
| 300.00 | 3- 2 | 3- 4 | 3- 5 | 3- 6 | 3- 8 | 3- 9 | 3-11 | 4- 0 | 4- 1 | 4- 3 |
| 325.00 | 3- 9 | 3-10 | 4- 0 | 4- 2 | 4- 3 | 4- 5 | 4- 7 | 4- 8 | 4-10 | 5- 0 |
| 350.00 | 4- 4 | 4- 6 | 4- 8 | 4-10 | 5- 0 | 5- 2 | 5- 4 | 5- 5 | 5- 7 | 5- 9 |
| 375.00 | 5- 0 | 5- 2 | 5- 4 | 5- 6 | 5- 9 | 5-11 | 6- 1 | 6- 3 | 6- 5 | 6- 7 |
| 400.00 | 5- 8 | 5-10 | 6- 1 | 6- 3 | 6- 6 | 6- 9 | 6-11 | 7- 1 | 7- 4 | 7- 6 |
| 425.00 | 6- 5 | 6- 7 | 6-10 | 7- 1 | 7- 4 | 7- 7 | 7-10 | 8- 0 | 8- 3 | 8- 6 |
| 450.00 | 7- 2 | 7- 5 | 7- 8 | 8- 0 | 8- 3 | 8- 6 | 8- 9 | 9- 0 | 9- 3 | 9- 6 |
| 475.00 | 8- 0 | 8- 3 | 8- 7 | 8-10 | 9- 2 | 9- 6 | 9- 9 | 10- 1 | 10- 4 | 10- 7 |
| 500.00 | 8-10 | 9- 2 | 9- 6 | 9-10 | 10- 2 | 10- 6 | 10-10 | 11- 2 | 11- 5 | 11- 9 |
| 525.00 | 9- 9 | 10- 1 | 10- 6 | 10-10 | 11- 2 | 11- 7 | 11-11 | 12- 3 | 12- 7 | 13- 0 |
| 550.00 | 10- 8 | 11- 1 | 11- 6 | 11-11 | 12- 4 | 12- 8 | 13- 1 | 13- 6 | 13-10 | 14- 3 |
| 575.00 | 11- 8 | 12- 2 | 12- 7 | 13- 0 | 13- 5 | 13-10 | 14- 4 | 14- 9 | 15- 2 | 15- 7 |
| 600.00 | 12- 9 | 13- 2 | 13- 8 | 14- 2 | 14- 8 | 15- 1 | 15- 7 | 16- 0 | 16- 6 | 16-11 |
| 625.00 | 13-10 | 14- 4 | 14-10 | 15- 4 | 15-11 | 16- 5 | 16-11 | 17- 5 | 17-11 | 18- 5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.037 | 0.53 | 2424 | 0.53 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 0.28 | 2960 | 0.28 | 2960 |
| 30 | 0 | 0 | 0 | 0.654 | 0.30 | 2747 | 0.30 | 2747 |
| 40 | 0 | 0 | 0 | 0.654 | 0.32 | 2533 | 0.32 | 2533 |
| 50 | 0 | 0 | 0 | 0.654 | 0.35 | 2305 | 0.35 | 2320 |
| 60 | 0 | 0 | 0 | 0.654 | 0.40 | 2065 | 0.39 | 2110 |
| 70 | 0 | 0 | 0 | 0.654 | 0.45 | 1834 | 0.43 | 1903 |
| 80 | 0 | 0 | 0 | 0.654 | 0.51 | 1614 | 0.48 | 1704 |
| 90 | 0 | 0 | 0 | 0.654 | 0.58 | 1411 | 0.54 | 1514 |
| 100 | 0 | 0 | 0 | 0.654 | 0.67 | 1228 | 0.61 | 1338 |
| 110 | 0 | 0 | 0 | 0.654 | 0.76 | 1070 | 0.69 | 1178 |
| 120 | 0 | 0 | 0 | 0.654 | 0.87 | 938 | 0.79 | 1039 |
| 130 | 0 | 0 | 0 | 0.654 | 0.98 | 831 | 0.89 | 920 |
| 167 | 0 | 0 | 0 | 0.654 | 1.39 | 587 | 1.29 | 636 |
| 212 | 0 | 0 | 0 | 0.654 | 1.83 | 448 | 1.73 | 473 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.037 | 2.14 | 2424 | 2.14 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 1.25 | 2617 | 1.25 | 2617 |
| 30 | 0 | 0 | 0 | 0.654 | 1.34 | 2432 | 1.34 | 2432 |
| 40 | 0 | 0 | 0 | 0.654 | 1.46 | 2233 | 1.45 | 2253 |
| 50 | 0 | 0 | 0 | 0.654 | 1.60 | 2047 | 1.57 | 2084 |
| 60 | 0 | 0 | 0 | 0.654 | 1.74 | 1875 | 1.70 | 1924 |
| 70 | 0 | 0 | 0 | 0.654 | 1.90 | 1720 | 1.84 | 1776 |
| 80 | 0 | 0 | 0 | 0.654 | 2.07 | 1581 | 1.99 | 1641 |
| 90 | 0 | 0 | 0 | 0.654 | 2.24 | 1458 | 2.15 | 1520 |
| 100 | 0 | 0 | 0 | 0.654 | 2.42 | 1351 | 2.32 | 1411 |
| 110 | 0 | 0 | 0 | 0.654 | 2.60 | 1257 | 2.49 | 1314 |
| 120 | 0 | 0 | 0 | 0.654 | 2.78 | 1176 | 2.66 | 1229 |
| 130 | 0 | 0 | 0 | 0.654 | 2.96 | 1105 | 2.84 | 1154 |
| 167 | 0 | 0 | 0 | 0.654 | 3.60 | 910 | 3.46 | 946 |
| 212 | 0 | 0 | 0 | 0.654 | 4.30 | 761 | 4.16 | 786 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.037 | 4.82 | 2424 | 4.82 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 3.33 | 2210 | 3.31 | 2227 |
| 30 | 0 | 0 | 0 | 0.654 | 3.55 | 2073 | 3.51 | 2098 |
| 40 | 0 | 0 | 0 | 0.654 | 3.78 | 1948 | 3.72 | 1980 |
| 50 | 0 | 0 | 0 | 0.654 | 4.01 | 1835 | 3.94 | 1871 |
| 60 | 0 | 0 | 0 | 0.654 | 4.25 | 1734 | 4.16 | 1771 |
| 70 | 0 | 0 | 0 | 0.654 | 4.48 | 1642 | 4.38 | 1680 |
| 80 | 0 | 0 | 0 | 0.654 | 4.72 | 1560 | 4.61 | 1598 |
| 90 | 0 | 0 | 0 | 0.654 | 4.96 | 1486 | 4.84 | 1523 |
| 100 | 0 | 0 | 0 | 0.654 | 5.19 | 1419 | 5.06 | 1455 |
| 110 | 0 | 0 | 0 | 0.654 | 5.42 | 1359 | 5.29 | 1393 |
| 120 | 0 | 0 | 0 | 0.654 | 5.65 | 1304 | 5.51 | 1337 |
| 130 | 0 | 0 | 0 | 0.654 | 5.87 | 1255 | 5.73 | 1286 |
| 167 | 0 | 0 | 0 | 0.654 | 6.67 | 1106 | 6.51 | 1132 |
| 212 | 0 | 0 | 0 | 0.654 | 7.56 | 976 | 7.41 | 996 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.037 | 8.57 | 2424 | 8.57 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 6.78 | 1932 | 6.70 | 1955 |
| 30 | 0 | 0 | 0 | 0.654 | 7.06 | 1854 | 6.97 | 1878 |
| 40 | 0 | 0 | 0 | 0.654 | 7.35 | 1782 | 7.25 | 1807 |
| 50 | 0 | 0 | 0 | 0.654 | 7.63 | 1716 | 7.52 | 1742 |
| 60 | 0 | 0 | 0 | 0.654 | 7.91 | 1656 | 7.79 | 1681 |
| 70 | 0 | 0 | 0 | 0.654 | 8.19 | 1600 | 8.06 | 1625 |
| 80 | 0 | 0 | 0 | 0.654 | 8.46 | 1549 | 8.33 | 1573 |
| 90 | 0 | 0 | 0 | 0.654 | 8.73 | 1501 | 8.59 | 1525 |
| 100 | 0 | 0 | 0 | 0.654 | 9.00 | 1457 | 8.85 | 1480 |
| 110 | 0 | 0 | 0 | 0.654 | 9.26 | 1416 | 9.11 | 1439 |
| 120 | 0 | 0 | 0 | 0.654 | 9.51 | 1378 | 9.37 | 1400 |
| 130 | 0 | 0 | 0 | 0.654 | 9.77 | 1342 | 9.62 | 1363 |
| 167 | 0 | 0 | 0 | 0.654 | 10.67 | 1229 | 10.51 | 1248 |
| 212 | 0 | 0 | 0 | 0.654 | 11.71 | 1121 | 11.54 | 1137 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.037 | 13.41 | 2424 | 13.41 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 11.48 | 1784 | 11.36 | 1802 |
| 30 | 0 | 0 | 0 | 0.654 | 11.79 | 1737 | 11.67 | 1755 |
| 40 | 0 | 0 | 0 | 0.654 | 12.10 | 1693 | 11.97 | 1711 |
| 50 | 0 | 0 | 0 | 0.654 | 12.40 | 1652 | 12.27 | 1670 |
| 60 | 0 | 0 | 0 | 0.654 | 12.70 | 1613 | 12.56 | 1631 |
| 70 | 0 | 0 | 0 | 0.654 | 13.00 | 1577 | 12.86 | 1594 |
| 80 | 0 | 0 | 0 | 0.654 | 13.29 | 1542 | 13.14 | 1559 |
| 90 | 0 | 0 | 0 | 0.654 | 13.58 | 1510 | 13.43 | 1526 |
| 100 | 0 | 0 | 0 | 0.654 | 13.86 | 1479 | 13.71 | 1495 |
| 110 | 0 | 0 | 0 | 0.654 | 14.14 | 1450 | 13.99 | 1466 |
| 120 | 0 | 0 | 0 | 0.654 | 14.42 | 1422 | 14.26 | 1437 |
| 130 | 0 | 0 | 0 | 0.654 | 14.69 | 1396 | 14.54 | 1411 |
| 167 | 0 | 0 | 0 | 0.654 | 15.67 | 1309 | 15.51 | 1323 |
| 212 | 0 | 0 | 0 | 0.654 | 16.81 | 1221 | 16.64 | 1233 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 5 |
| 100.00 | 0- 3 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 8 |
| 125.00 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 1 |
| 150.00 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-10 | 1- 0 | 1- 1 | 1- 3 | 1- 5 | 1- 7 |
| 175.00 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 4 | 1- 6 | 1- 8 | 1-10 | 2- 2 |
| 200.00 | 1- 1 | 1- 2 | 1- 3 | 1- 5 | 1- 7 | 1- 9 | 1-11 | 2- 2 | 2- 5 | 2- 9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0- 2 | 0- 2 | 0- 2 | 0- 2 | 0- 3 | 0- 3 | 0- 3 | 0- 4 | 0- 4 | 0- 5 |
| 100.00 | 0- 3 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 7 | 0- 8 | 0- 9 |
| 125.00 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0-11 | 1- 0 | 1- 2 |
| 150.00 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 2 | 1- 4 | 1- 6 | 1- 9 |
| 175.00 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 3 | 1- 4 | 1- 7 | 1- 9 | 2- 0 | 2- 4 |
| 200.00 | 1- 1 | 1- 2 | 1- 3 | 1- 5 | 1- 7 | 1- 9 | 2- 0 | 2- 4 | 2- 8 | 3- 1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 6 | 0- 7 | 0- 7 |
| 125.00 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0- 9 | 0-10 | 0-11 | 1- 0 |
| 150.00 | 0- 8 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 0 | 1- 1 | 1- 3 | 1- 4 | 1- 5 |
| 175.00 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 4 | 1- 5 | 1- 6 | 1- 8 | 1- 9 | 1-11 |
| 200.00 | 1- 3 | 1- 4 | 1- 5 | 1- 7 | 1- 8 | 1-10 | 2- 0 | 2- 2 | 2- 4 | 2- 6 |
| 225.00 | 1- 7 | 1- 8 | 1-10 | 2- 0 | 2- 2 | 2- 4 | 2- 6 | 2- 9 | 2-11 | 3- 2 |
| 250.00 | 1-11 | 2- 1 | 2- 3 | 2- 5 | 2- 8 | 2-11 | 3- 1 | 3- 4 | 3- 7 | 3-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0- 4 | 0- 4 | 0- 4 | 0- 5 | 0- 5 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 8 |
| 125.00 | 0- 6 | 0- 6 | 0- 7 | 0- 7 | 0- 8 | 0- 9 | 0-10 | 0-11 | 0-11 | 1- 0 |
| 150.00 | 0- 8 | 0- 9 | 0-10 | 0-11 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 6 |
| 175.00 | 0-11 | 1- 0 | 1- 1 | 1- 3 | 1- 4 | 1- 5 | 1- 7 | 1- 9 | 1-10 | 2- 0 |
| 200.00 | 1- 3 | 1- 4 | 1- 6 | 1- 7 | 1- 9 | 1-11 | 2- 1 | 2- 3 | 2- 5 | 2- 7 |
| 225.00 | 1- 7 | 1- 8 | 1-10 | 2- 0 | 2- 2 | 2- 5 | 2- 7 | 2-10 | 3- 1 | 3- 4 |
| 250.00 | 1-11 | 2- 1 | 2- 3 | 2- 6 | 2- 9 | 3- 0 | 3- 3 | 3- 6 | 3- 9 | 4- 1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 0-11 | 1- 0 | 1- 0 | 1- 1 | 1- 2 | 1- 3 | 1- 3 | 1- 4 |
| 175.00 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-10 |
| 200.00 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 1 | 2- 2 | 2- 3 | 2- 4 |
| 225.00 | 1-10 | 2- 0 | 2- 1 | 2- 3 | 2- 4 | 2- 6 | 2- 7 | 2- 9 | 2-10 | 3- 0 |
| 250.00 | 2- 4 | 2- 5 | 2- 7 | 2- 9 | 2-11 | 3- 1 | 3- 2 | 3- 4 | 3- 6 | 3- 8 |
| 275.00 | 2- 9 | 2-11 | 3- 1 | 3- 4 | 3- 6 | 3- 8 | 3-10 | 4- 1 | 4- 3 | 4- 5 |
| 300.00 | 3- 4 | 3- 6 | 3- 9 | 3-11 | 4- 2 | 4- 5 | 4- 7 | 4-10 | 5- 1 | 5- 3 |
| 325.00 | 3-11 | 4- 1 | 4- 4 | 4- 7 | 4-11 | 5- 2 | 5- 5 | 5- 8 | 5-11 | 6- 2 |
| 350.00 | 4- 6 | 4- 9 | 5- 1 | 5- 4 | 5- 8 | 6- 0 | 6- 3 | 6- 7 | 6-11 | 7- 2 |
| 375.00 | 5- 2 | 5- 6 | 5-10 | 6- 2 | 6- 6 | 6-10 | 7- 2 | 7- 7 | 7-11 | 8- 3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 0-10 | 0-11 | 0-11 | 1- 0 | 1- 1 | 1- 1 | 1- 2 | 1- 3 | 1- 4 | 1- 4 |
| 175.00 | 1- 2 | 1- 3 | 1- 3 | 1- 4 | 1- 5 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-10 |
| 200.00 | 1- 6 | 1- 7 | 1- 8 | 1- 9 | 1-11 | 2- 0 | 2- 1 | 2- 2 | 2- 4 | 2- 5 |
| 225.00 | 1-10 | 2- 0 | 2- 2 | 2- 3 | 2- 5 | 2- 6 | 2- 8 | 2- 9 | 2-11 | 3- 1 |
| 250.00 | 2- 4 | 2- 6 | 2- 7 | 2- 9 | 2-11 | 3- 1 | 3- 3 | 3- 5 | 3- 7 | 3- 9 |
| 275.00 | 2-10 | 3- 0 | 3- 2 | 3- 4 | 3- 7 | 3- 9 | 4- 0 | 4- 2 | 4- 4 | 4- 7 |
| 300.00 | 3- 4 | 3- 7 | 3- 9 | 4- 0 | 4- 3 | 4- 6 | 4- 9 | 4-11 | 5- 2 | 5- 5 |
| 325.00 | 3-11 | 4- 2 | 4- 5 | 4- 8 | 5- 0 | 5- 3 | 5- 6 | 5-10 | 6- 1 | 6- 4 |
| 350.00 | 4- 6 | 4-10 | 5- 2 | 5- 6 | 5- 9 | 6- 1 | 6- 5 | 6- 9 | 7- 1 | 7- 5 |
| 375.00 | 5- 2 | 5- 7 | 5-11 | 6- 3 | 6- 8 | 7- 0 | 7- 5 | 7- 9 | 8- 1 | 8- 6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1- 8 | 1- 9 | 1-10 | 1-11 | 1-11 | 2- 0 | 2- 1 | 2- 2 | 2- 3 | 2- 3 |
| 225.00 | 2- 1 | 2- 2 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 |
| 250.00 | 2- 7 | 2- 9 | 2-10 | 2-11 | 3- 1 | 3- 2 | 3- 3 | 3- 4 | 3- 5 | 3- 7 |
| 275.00 | 3- 2 | 3- 4 | 3- 5 | 3- 7 | 3- 8 | 3-10 | 3-11 | 4- 1 | 4- 2 | 4- 4 |
| 300.00 | 3- 9 | 3-11 | 4- 1 | 4- 3 | 4- 5 | 4- 6 | 4- 8 | 4-10 | 5- 0 | 5- 1 |
| 325.00 | 4- 5 | 4- 7 | 4- 9 | 5- 0 | 5- 2 | 5- 4 | 5- 6 | 5- 8 | 5-10 | 6- 0 |
| 350.00 | 5- 2 | 5- 4 | 5- 7 | 5- 9 | 6- 0 | 6- 2 | 6- 5 | 6- 7 | 6- 9 | 7- 0 |
| 375.00 | 5-11 | 6- 2 | 6- 4 | 6- 7 | 6-10 | 7- 1 | 7- 4 | 7- 7 | 7- 9 | 8- 0 |
| 400.00 | 6- 8 | 7- 0 | 7- 3 | 7- 6 | 7-10 | 8- 1 | 8- 4 | 8- 7 | 8-10 | 9- 1 |
| 425.00 | 7- 7 | 7-10 | 8- 2 | 8- 6 | 8-10 | 9- 1 | 9- 5 | 9- 8 | 10- 0 | 10- 3 |
| 450.00 | 8- 6 | 8-10 | 9- 2 | 9- 6 | 9-10 | 10- 2 | 10- 7 | 10-11 | 11- 2 | 11- 6 |
| 475.00 | 9- 5 | 9-10 | 10- 3 | 10- 7 | 11- 0 | 11- 4 | 11- 9 | 12- 1 | 12- 6 | 12-10 |
| 500.00 | 10- 6 | 10-11 | 11- 4 | 11- 9 | 12- 2 | 12- 7 | 13- 0 | 13- 5 | 13-10 | 14- 3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 1- 8 | 1- 9 | 1-10 | 1-11 | 2- 0 | 2- 1 | 2- 1 | 2- 2 | 2- 3 | 2- 4 |
| 225.00 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 |
| 250.00 | 2- 8 | 2- 9 | 2-10 | 3- 0 | 3- 1 | 3- 2 | 3- 4 | 3- 5 | 3- 6 | 3- 7 |
| 275.00 | 3- 2 | 3- 4 | 3- 6 | 3- 7 | 3- 9 | 3-10 | 4- 0 | 4- 2 | 4- 3 | 4- 4 |
| 300.00 | 3-10 | 4- 0 | 4- 2 | 4- 4 | 4- 5 | 4- 7 | 4- 9 | 4-11 | 5- 1 | 5- 2 |
| 325.00 | 4- 6 | 4- 8 | 4-10 | 5- 0 | 5- 3 | 5- 5 | 5- 7 | 5- 9 | 5-11 | 6- 1 |
| 350.00 | 5- 2 | 5- 5 | 5- 8 | 5-10 | 6- 1 | 6- 3 | 6- 6 | 6- 8 | 6-11 | 7- 1 |
| 375.00 | 5-11 | 6- 3 | 6- 6 | 6- 8 | 6-11 | 7- 2 | 7- 5 | 7- 8 | 7-11 | 8- 2 |
| 400.00 | 6- 9 | 7- 1 | 7- 4 | 7- 8 | 7-11 | 8- 2 | 8- 6 | 8- 9 | 9- 0 | 9- 3 |
| 425.00 | 7- 8 | 8- 0 | 8- 4 | 8- 7 | 8-11 | 9- 3 | 9- 7 | 9-10 | 10- 2 | 10- 5 |
| 450.00 | 8- 7 | 8-11 | 9- 4 | 9- 8 | 10- 0 | 10- 4 | 10- 9 | 11- 1 | 11- 5 | 11- 9 |
| 475.00 | 9- 7 | 10- 0 | 10- 4 | 10- 9 | 11- 2 | 11- 7 | 11-11 | 12- 4 | 12- 8 | 13- 1 |
| 500.00 | 10- 7 | 11- 0 | 11- 6 | 11-11 | 12- 4 | 12-10 | 13- 3 | 13- 8 | 14- 1 | 14- 6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-10 | 2-11 | 3- 0 | 3- 1 | 3- 2 | 3- 3 | 3- 3 | 3- 4 | 3- 5 | 3- 6 |
| 275.00 | 3- 5 | 3- 6 | 3- 7 | 3- 9 | 3-10 | 3-11 | 4- 0 | 4- 1 | 4- 2 | 4- 3 |
| 300.00 | 4- 1 | 4- 2 | 4- 4 | 4- 5 | 4- 6 | 4- 8 | 4- 9 | 4-10 | 4-11 | 5- 0 |
| 325.00 | 4-10 | 4-11 | 5- 1 | 5- 2 | 5- 4 | 5- 5 | 5- 7 | 5- 8 | 5- 9 | 5-11 |
| 350.00 | 5- 7 | 5- 9 | 5-10 | 6- 0 | 6- 2 | 6- 4 | 6- 5 | 6- 7 | 6- 9 | 6-10 |
| 375.00 | 6- 5 | 6- 7 | 6- 9 | 6-11 | 7- 1 | 7- 3 | 7- 5 | 7- 7 | 7- 9 | 7-10 |
| 400.00 | 7- 3 | 7- 6 | 7- 8 | 7-10 | 8- 0 | 8- 3 | 8- 5 | 8- 7 | 8- 9 | 8-11 |
| 425.00 | 8- 3 | 8- 5 | 8- 8 | 8-10 | 9- 1 | 9- 3 | 9- 6 | 9- 8 | 9-11 | 10- 1 |
| 450.00 | 9- 2 | 9- 5 | 9- 8 | 9-11 | 10- 2 | 10- 5 | 10- 8 | 10-11 | 11- 1 | 11- 4 |
| 475.00 | 10- 3 | 10- 6 | 10-10 | 11- 1 | 11- 4 | 11- 7 | 11-10 | 12- 1 | 12- 4 | 12- 7 |
| 500.00 | 11- 4 | 11- 8 | 12- 0 | 12- 3 | 12- 7 | 12-10 | 13- 2 | 13- 5 | 13- 9 | 14- 0 |
| 525.00 | 12- 6 | 12-10 | 13- 2 | 13- 6 | 13-10 | 14- 2 | 14- 6 | 14-10 | 15- 1 | 15- 5 |
| 550.00 | 13- 9 | 14- 1 | 14- 6 | 14-10 | 15- 2 | 15- 7 | 15-11 | 16- 3 | 16- 7 | 16-11 |
| 575.00 | 15- 0 | 15- 5 | 15-10 | 16- 3 | 16- 7 | 17- 0 | 17- 5 | 17- 9 | 18- 2 | 18- 6 |
| 600.00 | 16- 4 | 16-10 | 17- 3 | 17- 8 | 18- 1 | 18- 6 | 18-11 | 19- 4 | 19- 9 | 20- 2 |
| 625.00 | 17- 9 | 18- 3 | 18- 9 | 19- 2 | 19- 8 | 20- 1 | 20- 7 | 21- 0 | 21- 5 | 21-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 2-10 | 2-11 | 3- 0 | 3- 1 | 3- 2 | 3- 3 | 3- 4 | 3- 5 | 3- 6 | 3- 6 |
| 275.00 | 3- 6 | 3- 7 | 3- 8 | 3- 9 | 3-10 | 3-11 | 4- 0 | 4- 1 | 4- 2 | 4- 3 |
| 300.00 | 4- 2 | 4- 3 | 4- 4 | 4- 6 | 4- 7 | 4- 8 | 4- 9 | 4-11 | 5- 0 | 5- 1 |
| 325.00 | 4-10 | 5- 0 | 5- 1 | 5- 3 | 5- 4 | 5- 6 | 5- 7 | 5- 9 | 5-10 | 6- 0 |
| 350.00 | 5- 7 | 5- 9 | 5-11 | 6- 1 | 6- 3 | 6- 4 | 6- 6 | 6- 8 | 6- 9 | 6-11 |
| 375.00 | 6- 5 | 6- 8 | 6-10 | 7- 0 | 7- 2 | 7- 4 | 7- 6 | 7- 8 | 7-10 | 7-11 |
| 400.00 | 7- 4 | 7- 7 | 7- 9 | 7-11 | 8- 2 | 8- 4 | 8- 6 | 8- 8 | 8-10 | 9- 1 |
| 425.00 | 8- 3 | 8- 6 | 8- 9 | 8-11 | 9- 2 | 9- 5 | 9- 7 | 9-10 | 10- 0 | 10- 3 |
| 450.00 | 9- 4 | 9- 7 | 9-10 | 10- 1 | 10- 3 | 10- 6 | 10- 9 | 11- 0 | 11- 3 | 11- 5 |
| 475.00 | 10- 4 | 10- 8 | 10-11 | 11- 2 | 11- 6 | 11- 9 | 12- 0 | 12- 3 | 12- 6 | 12- 9 |
| 500.00 | 11- 6 | 11- 9 | 12- 1 | 12- 5 | 12- 8 | 13- 0 | 13- 3 | 13- 7 | 13-10 | 14- 2 |
| 525.00 | 12- 8 | 13- 0 | 13- 4 | 13- 8 | 14- 0 | 14- 4 | 14- 8 | 15- 0 | 15- 3 | 15- 7 |
| 550.00 | 13-11 | 14- 3 | 14- 8 | 15- 0 | 15- 4 | 15- 9 | 16- 1 | 16- 5 | 16- 9 | 17- 1 |
| 575.00 | 15- 2 | 15- 7 | 16- 0 | 16- 5 | 16-10 | 17- 2 | 17- 7 | 18- 0 | 18- 4 | 18- 9 |
| 600.00 | 16- 6 | 17- 0 | 17- 5 | 17-10 | 18- 4 | 18- 9 | 19- 2 | 19- 7 | 20- 0 | 20- 4 |
| 625.00 | 17-11 | 18- 5 | 18-11 | 19- 5 | 19-10 | 20- 4 | 20- 9 | 21- 3 | 21- 8 | 22- 1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.518 | 0.78 | 2424 | 0.78 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 0.30 | 2762 | 0.30 | 2762 |
| 30 | 0 | 0 | 0 | 0.654 | 0.32 | 2548 | 0.32 | 2548 |
| 40 | 0 | 0 | 0 | 0.654 | 0.35 | 2322 | 0.35 | 2335 |
| 50 | 0 | 0 | 0 | 0.654 | 0.39 | 2082 | 0.38 | 2125 |
| 60 | 0 | 0 | 0 | 0.654 | 0.44 | 1850 | 0.43 | 1918 |
| 70 | 0 | 0 | 0 | 0.654 | 0.50 | 1629 | 0.48 | 1718 |
| 80 | 0 | 0 | 0 | 0.654 | 0.57 | 1425 | 0.54 | 1527 |
| 90 | 0 | 0 | 0 | 0.654 | 0.66 | 1240 | 0.61 | 1350 |
| 100 | 0 | 0 | 0 | 0.654 | 0.76 | 1081 | 0.69 | 1189 |
| 110 | 0 | 0 | 0 | 0.654 | 0.86 | 947 | 0.78 | 1048 |
| 120 | 0 | 0 | 0 | 0.654 | 0.98 | 838 | 0.88 | 928 |
| 130 | 0 | 0 | 0 | 0.654 | 1.09 | 751 | 0.99 | 828 |
| 167 | 0 | 0 | 0 | 0.654 | 1.49 | 549 | 1.38 | 591 |
| 212 | 0 | 0 | 0 | 0.654 | 1.91 | 429 | 1.81 | 452 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.518 | 3.13 | 2424 | 3.13 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 1.70 | 1922 | 1.66 | 1968 |
| 30 | 0 | 0 | 0 | 0.654 | 1.86 | 1762 | 1.80 | 1816 |
| 40 | 0 | 0 | 0 | 0.654 | 2.02 | 1618 | 1.95 | 1678 |
| 50 | 0 | 0 | 0 | 0.654 | 2.19 | 1491 | 2.11 | 1552 |
| 60 | 0 | 0 | 0 | 0.654 | 2.37 | 1379 | 2.27 | 1440 |
| 70 | 0 | 0 | 0 | 0.654 | 2.55 | 1282 | 2.44 | 1340 |
| 80 | 0 | 0 | 0 | 0.654 | 2.73 | 1197 | 2.61 | 1252 |
| 90 | 0 | 0 | 0 | 0.654 | 2.91 | 1124 | 2.79 | 1174 |
| 100 | 0 | 0 | 0 | 0.654 | 3.09 | 1059 | 2.96 | 1106 |
| 110 | 0 | 0 | 0 | 0.654 | 3.26 | 1003 | 3.13 | 1046 |
| 120 | 0 | 0 | 0 | 0.654 | 3.44 | 953 | 3.30 | 992 |
| 130 | 0 | 0 | 0 | 0.654 | 3.60 | 909 | 3.46 | 945 |
| 167 | 0 | 0 | 0 | 0.654 | 4.19 | 783 | 4.05 | 809 |
| 212 | 0 | 0 | 0 | 0.654 | 4.83 | 679 | 4.70 | 698 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.518 | 7.06 | 2424 | 7.06 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 5.28 | 1395 | 5.15 | 1430 |
| 30 | 0 | 0 | 0 | 0.654 | 5.51 | 1337 | 5.37 | 1371 |
| 40 | 0 | 0 | 0 | 0.654 | 5.74 | 1284 | 5.60 | 1317 |
| 50 | 0 | 0 | 0 | 0.654 | 5.96 | 1237 | 5.81 | 1267 |
| 60 | 0 | 0 | 0 | 0.654 | 6.18 | 1193 | 6.03 | 1222 |
| 70 | 0 | 0 | 0 | 0.654 | 6.39 | 1153 | 6.24 | 1181 |
| 80 | 0 | 0 | 0 | 0.654 | 6.60 | 1117 | 6.45 | 1143 |
| 90 | 0 | 0 | 0 | 0.654 | 6.81 | 1083 | 6.66 | 1108 |
| 100 | 0 | 0 | 0 | 0.654 | 7.01 | 1052 | 6.86 | 1075 |
| 110 | 0 | 0 | 0 | 0.654 | 7.21 | 1023 | 7.06 | 1045 |
| 120 | 0 | 0 | 0 | 0.654 | 7.41 | 996 | 7.25 | 1017 |
| 130 | 0 | 0 | 0 | 0.654 | 7.60 | 971 | 7.44 | 991 |
| 167 | 0 | 0 | 0 | 0.654 | 8.28 | 891 | 8.13 | 908 |
| 212 | 0 | 0 | 0 | 0.654 | 9.05 | 816 | 8.90 | 829 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.518 | 12.58 | 2424 | 12.58 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 10.74 | 1222 | 10.58 | 1240 |
| 30 | 0 | 0 | 0 | 0.654 | 10.97 | 1196 | 10.81 | 1213 |
| 40 | 0 | 0 | 0 | 0.654 | 11.20 | 1171 | 11.04 | 1188 |
| 50 | 0 | 0 | 0 | 0.654 | 11.43 | 1148 | 11.27 | 1164 |
| 60 | 0 | 0 | 0 | 0.654 | 11.66 | 1126 | 11.49 | 1142 |
| 70 | 0 | 0 | 0 | 0.654 | 11.88 | 1105 | 11.72 | 1120 |
| 80 | 0 | 0 | 0 | 0.654 | 12.10 | 1085 | 11.93 | 1100 |
| 90 | 0 | 0 | 0 | 0.654 | 12.31 | 1066 | 12.15 | 1081 |
| 100 | 0 | 0 | 0 | 0.654 | 12.52 | 1049 | 12.36 | 1062 |
| 110 | 0 | 0 | 0 | 0.654 | 12.73 | 1031 | 12.57 | 1045 |
| 120 | 0 | 0 | 0 | 0.654 | 12.94 | 1015 | 12.78 | 1028 |
| 130 | 0 | 0 | 0 | 0.654 | 13.14 | 999 | 12.98 | 1012 |
| 167 | 0 | 0 | 0 | 0.654 | 13.88 | 947 | 13.72 | 958 |
| 212 | 0 | 0 | 0 | 0.654 | 14.73 | 893 | 14.57 | 902 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 1.518 | 19.70 | 2424 | 19.70 | 2424* |
| 20 | 0 | 0 | 0 | 0.654 | 17.84 | 1151 | 17.68 | 1162 |
| 30 | 0 | 0 | 0 | 0.654 | 18.08 | 1137 | 17.91 | 1147 |
| 40 | 0 | 0 | 0 | 0.654 | 18.31 | 1122 | 18.14 | 1133 |
| 50 | 0 | 0 | 0 | 0.654 | 18.53 | 1109 | 18.37 | 1119 |
| 60 | 0 | 0 | 0 | 0.654 | 18.76 | 1096 | 18.59 | 1105 |
| 70 | 0 | 0 | 0 | 0.654 | 18.98 | 1083 | 18.82 | 1092 |
| 80 | 0 | 0 | 0 | 0.654 | 19.21 | 1070 | 19.04 | 1080 |
| 90 | 0 | 0 | 0 | 0.654 | 19.42 | 1059 | 19.26 | 1068 |
| 100 | 0 | 0 | 0 | 0.654 | 19.64 | 1047 | 19.47 | 1056 |
| 110 | 0 | 0 | 0 | 0.654 | 19.86 | 1036 | 19.69 | 1044 |
| 120 | 0 | 0 | 0 | 0.654 | 20.07 | 1025 | 19.90 | 1033 |
| 130 | 0 | 0 | 0 | 0.654 | 20.28 | 1014 | 20.11 | 1023 |
| 167 | 0 | 0 | 0 | 0.654 | 21.04 | 978 | 20.88 | 986 |
| 212 | 0 | 0 | 0 | 0.654 | 21.94 | 939 | 21.78 | 946 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-1 | 1-3 |
| 150.00 | 0-8 | 0-9 | 0-9 | 0-10 | 1-0 | 1-1 | 1-2 | 1-4 | 1-7 | 1-9 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-8 | 1-10 | 2-1 | 2-5 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-11 | 2-2 | 2-5 | 2-9 | 3-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-6 |
| 100.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-11 | 1-0 | 1-2 | 1-4 |
| 150.00 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-6 | 1-8 | 1-11 |
| 175.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-9 | 2-0 | 2-4 | 2-8 |
| 200.00 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 2-0 | 2-4 | 2-8 | 3-0 | 3-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 125.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 |
| 175.00 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 |
| 200.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 |
| 225.00 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 |
| 250.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 150.00 | 0-11 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 |
| 200.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 225.00 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 |
| 250.00 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 | 4-10 | 5-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1- 3 | 1- 4 | 1- 5 | 1- 5 | 1- 6 | 1- 7 | 1- 7 | 1- 8 | 1- 9 | 1- 9 |
| 175.00 | 1- 9 | 1-10 | 1-11 | 2- 0 | 2- 1 | 2- 1 | 2- 2 | 2- 3 | 2- 4 | 2- 5 |
| 200.00 | 2- 3 | 2- 5 | 2- 6 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 | 3- 1 | 3- 2 |
| 225.00 | 2-11 | 3- 0 | 3- 2 | 3- 3 | 3- 5 | 3- 6 | 3- 8 | 3- 9 | 3-10 | 4- 0 |
| 250.00 | 3- 7 | 3- 9 | 3-11 | 4- 0 | 4- 2 | 4- 4 | 4- 6 | 4- 7 | 4- 9 | 4-11 |
| 275.00 | 4- 4 | 4- 6 | 4- 8 | 4-11 | 5- 1 | 5- 3 | 5- 5 | 5- 7 | 5- 9 | 5-11 |
| 300.00 | 5- 2 | 5- 4 | 5- 7 | 5-10 | 6- 0 | 6- 3 | 6- 5 | 6- 8 | 6-10 | 7- 1 |
| 325.00 | 6- 1 | 6- 4 | 6- 7 | 6-10 | 7- 1 | 7- 4 | 7- 7 | 7-10 | 8- 1 | 8- 3 |
| 350.00 | 7- 0 | 7- 4 | 7- 7 | 7-11 | 8- 3 | 8- 6 | 8- 9 | 9- 1 | 9- 4 | 9- 7 |
| 375.00 | 8- 1 | 8- 5 | 8- 9 | 9- 1 | 9- 5 | 9- 9 | 10- 1 | 10- 5 | 10- 9 | 11- 0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 1- 4 | 1- 5 | 1- 5 | 1- 6 | 1- 7 | 1- 7 | 1- 8 | 1- 8 | 1- 9 | 1-10 |
| 175.00 | 1-10 | 1-10 | 1-11 | 2- 0 | 2- 1 | 2- 2 | 2- 3 | 2- 4 | 2- 5 | 2- 5 |
| 200.00 | 2- 4 | 2- 5 | 2- 7 | 2- 8 | 2- 9 | 2-10 | 2-11 | 3- 0 | 3- 1 | 3- 2 |
| 225.00 | 3- 0 | 3- 1 | 3- 3 | 3- 4 | 3- 6 | 3- 7 | 3- 9 | 3-10 | 3-11 | 4- 1 |
| 250.00 | 3- 8 | 3-10 | 4- 0 | 4- 2 | 4- 3 | 4- 5 | 4- 7 | 4- 9 | 4-10 | 5- 0 |
| 275.00 | 4- 5 | 4- 8 | 4-10 | 5- 0 | 5- 2 | 5- 4 | 5- 7 | 5- 9 | 5-11 | 6- 1 |
| 300.00 | 5- 3 | 5- 6 | 5- 9 | 6- 0 | 6- 2 | 6- 5 | 6- 7 | 6-10 | 7- 0 | 7- 3 |
| 325.00 | 6- 2 | 6- 6 | 6- 9 | 7- 0 | 7- 3 | 7- 6 | 7- 9 | 8- 0 | 8- 3 | 8- 6 |
| 350.00 | 7- 2 | 7- 6 | 7-10 | 8- 1 | 8- 5 | 8- 8 | 9- 0 | 9- 3 | 9- 7 | 9-10 |
| 375.00 | 8- 3 | 8- 7 | 9- 0 | 9- 4 | 9- 8 | 10- 0 | 10- 4 | 10- 8 | 11- 0 | 11- 3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2- 8 | 2- 8 | 2- 9 | 2-10 | 2-10 | 2-11 | 3- 0 | 3- 0 | 3- 1 | 3- 2 |
| 225.00 | 3- 4 | 3- 5 | 3- 6 | 3- 7 | 3- 8 | 3- 8 | 3- 9 | 3-10 | 3-11 | 4- 0 |
| 250.00 | 4- 2 | 4- 3 | 4- 4 | 4- 5 | 4- 6 | 4- 7 | 4- 8 | 4- 9 | 4-10 | 4-11 |
| 275.00 | 5- 0 | 5- 1 | 5- 3 | 5- 4 | 5- 5 | 5- 6 | 5- 8 | 5- 9 | 5-10 | 5-11 |
| 300.00 | 5-11 | 6- 1 | 6- 3 | 6- 4 | 6- 6 | 6- 7 | 6- 9 | 6-10 | 6-11 | 7- 1 |
| 325.00 | 7- 0 | 7- 2 | 7- 3 | 7- 5 | 7- 7 | 7- 9 | 7-11 | 8- 0 | 8- 2 | 8- 4 |
| 350.00 | 8- 1 | 8- 3 | 8- 5 | 8- 8 | 8-10 | 9- 0 | 9- 2 | 9- 4 | 9- 6 | 9- 7 |
| 375.00 | 9- 4 | 9- 6 | 9- 8 | 9-11 | 10- 1 | 10- 4 | 10- 6 | 10- 8 | 10-10 | 11- 1 |
| 400.00 | 10- 7 | 10-10 | 11- 1 | 11- 3 | 11- 6 | 11- 9 | 11-11 | 12- 2 | 12- 4 | 12- 7 |
| 425.00 | 11-11 | 12- 3 | 12- 6 | 12- 9 | 13- 0 | 13- 3 | 13- 6 | 13- 9 | 13-11 | 14- 2 |
| 450.00 | 13- 5 | 13- 8 | 14- 0 | 14- 3 | 14- 7 | 14-10 | 15- 1 | 15- 5 | 15- 8 | 15-11 |
| 475.00 | 14-11 | 15- 3 | 15- 7 | 15-11 | 16- 3 | 16- 6 | 16-10 | 17- 2 | 17- 5 | 17- 9 |
| 500.00 | 16- 6 | 16-11 | 17- 3 | 17- 7 | 18- 0 | 18- 4 | 18- 8 | 19- 0 | 19- 4 | 19- 8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2- 8 | 2- 9 | 2-10 | 2-10 | 2-11 | 3- 0 | 3- 0 | 3- 1 | 3- 2 | 3- 2 |
| 225.00 | 3- 5 | 3- 6 | 3- 7 | 3- 7 | 3- 8 | 3- 9 | 3-10 | 3-11 | 4- 0 | 4- 0 |
| 250.00 | 4- 2 | 4- 3 | 4- 4 | 4- 6 | 4- 7 | 4- 8 | 4- 9 | 4-10 | 4-11 | 5- 0 |
| 275.00 | 5- 1 | 5- 2 | 5- 4 | 5- 5 | 5- 6 | 5- 7 | 5- 9 | 5-10 | 5-11 | 6- 0 |
| 300.00 | 6- 0 | 6- 2 | 6- 4 | 6- 5 | 6- 7 | 6- 8 | 6-10 | 6-11 | 7- 0 | 7- 2 |
| 325.00 | 7- 1 | 7- 3 | 7- 5 | 7- 7 | 7- 8 | 7-10 | 8- 0 | 8- 1 | 8- 3 | 8- 5 |
| 350.00 | 8- 3 | 8- 5 | 8- 7 | 8- 9 | 8-11 | 9- 1 | 9- 3 | 9- 5 | 9- 7 | 9- 9 |
| 375.00 | 9- 5 | 9- 8 | 9-10 | 10- 1 | 10- 3 | 10- 5 | 10- 8 | 10-10 | 11- 0 | 11- 2 |
| 400.00 | 10- 9 | 11- 0 | 11- 2 | 11- 5 | 11- 8 | 11-11 | 12- 1 | 12- 4 | 12- 6 | 12- 9 |
| 425.00 | 12- 1 | 12- 5 | 12- 8 | 12-11 | 13- 2 | 13- 5 | 13- 8 | 13-11 | 14- 2 | 14- 5 |
| 450.00 | 13- 7 | 13-11 | 14- 2 | 14- 6 | 14- 9 | 15- 0 | 15- 4 | 15- 7 | 15-10 | 16- 1 |
| 475.00 | 15- 2 | 15- 6 | 15-10 | 16- 2 | 16- 5 | 16- 9 | 17- 1 | 17- 4 | 17- 8 | 18- 0 |
| 500.00 | 16- 9 | 17- 2 | 17- 6 | 17-10 | 18- 3 | 18- 7 | 18-11 | 19- 3 | 19- 7 | 19-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4- 5 | 4- 6 | 4- 6 | 4- 7 | 4- 8 | 4- 8 | 4- 9 | 4-10 | 4-10 | 4-11 |
| 275.00 | 5- 4 | 5- 5 | 5- 6 | 5- 7 | 5- 7 | 5- 8 | 5- 9 | 5-10 | 5-11 | 5-11 |
| 300.00 | 6- 4 | 6- 5 | 6- 6 | 6- 7 | 6- 8 | 6- 9 | 6-10 | 6-11 | 7- 0 | 7- 1 |
| 325.00 | 7- 6 | 7- 7 | 7- 8 | 7- 9 | 7-10 | 7-11 | 8- 0 | 8- 2 | 8- 3 | 8- 4 |
| 350.00 | 8- 8 | 8- 9 | 8-11 | 9- 0 | 9- 1 | 9- 3 | 9- 4 | 9- 5 | 9- 6 | 9- 8 |
| 375.00 | 9-11 | 10- 1 | 10- 2 | 10- 4 | 10- 5 | 10- 7 | 10- 8 | 10-10 | 10-11 | 11- 1 |
| 400.00 | 11- 4 | 11- 5 | 11- 7 | 11- 9 | 11-11 | 12- 0 | 12- 2 | 12- 4 | 12- 5 | 12- 7 |
| 425.00 | 12- 9 | 12-11 | 13- 1 | 13- 3 | 13- 5 | 13- 7 | 13- 9 | 13-11 | 14- 1 | 14- 3 |
| 450.00 | 14- 4 | 14- 6 | 14- 8 | 14-10 | 15- 1 | 15- 3 | 15- 5 | 15- 7 | 15- 9 | 15-11 |
| 475.00 | 15-11 | 16- 2 | 16- 4 | 16- 7 | 16- 9 | 17- 0 | 17- 2 | 17- 5 | 17- 7 | 17- 9 |
| 500.00 | 17- 8 | 17-11 | 18- 2 | 18- 4 | 18- 7 | 18-10 | 19- 0 | 19- 3 | 19- 6 | 19- 8 |
| 525.00 | 19- 6 | 19- 9 | 20- 0 | 20- 3 | 20- 6 | 20- 9 | 21- 0 | 21- 3 | 21- 6 | 21- 9 |
| 550.00 | 21- 5 | 21- 8 | 21-11 | 22- 3 | 22- 6 | 22- 9 | 23- 1 | 23- 4 | 23- 7 | 23-10 |
| 575.00 | 23- 5 | 23- 8 | 24- 0 | 24- 4 | 24- 7 | 24-11 | 25- 2 | 25- 6 | 25- 9 | 26- 1 |
| 600.00 | 25- 6 | 25-10 | 26- 2 | 26- 6 | 26-10 | 27- 1 | 27- 5 | 27- 9 | 28- 1 | 28- 5 |
| 625.00 | 27- 8 | 28- 0 | 28- 4 | 28- 9 | 29- 1 | 29- 5 | 29- 9 | 30- 1 | 30- 6 | 30-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4- 5 | 4- 6 | 4- 7 | 4- 8 | 4- 8 | 4- 9 | 4-10 | 4-10 | 4-11 | 4-11 |
| 275.00 | 5- 5 | 5- 6 | 5- 6 | 5- 7 | 5- 8 | 5- 9 | 5-10 | 5-10 | 5-11 | 6- 0 |
| 300.00 | 6- 5 | 6- 6 | 6- 7 | 6- 8 | 6- 9 | 6-10 | 6-11 | 7- 0 | 7- 1 | 7- 2 |
| 325.00 | 7- 6 | 7- 8 | 7- 9 | 7-10 | 7-11 | 8- 0 | 8- 1 | 8- 2 | 8- 3 | 8- 5 |
| 350.00 | 8- 9 | 8-10 | 9- 0 | 9- 1 | 9- 2 | 9- 4 | 9- 5 | 9- 6 | 9- 7 | 9- 9 |
| 375.00 | 10- 0 | 10- 2 | 10- 3 | 10- 5 | 10- 7 | 10- 8 | 10-10 | 10-11 | 11- 0 | 11- 2 |
| 400.00 | 11- 5 | 11- 7 | 11- 9 | 11-10 | 12- 0 | 12- 2 | 12- 3 | 12- 5 | 12- 7 | 12- 8 |
| 425.00 | 12-11 | 13- 1 | 13- 3 | 13- 5 | 13- 7 | 13- 9 | 13-10 | 14- 0 | 14- 2 | 14- 4 |
| 450.00 | 14- 5 | 14- 8 | 14-10 | 15- 0 | 15- 2 | 15- 4 | 15- 7 | 15- 9 | 15-11 | 16- 1 |
| 475.00 | 16- 1 | 16- 4 | 16- 6 | 16- 9 | 16-11 | 17- 2 | 17- 4 | 17- 6 | 17- 9 | 17-11 |
| 500.00 | 17-10 | 18- 1 | 18- 4 | 18- 6 | 18- 9 | 19- 0 | 19- 2 | 19- 5 | 19- 8 | 19-10 |
| 525.00 | 19- 8 | 19-11 | 20- 2 | 20- 5 | 20- 8 | 20-11 | 21- 2 | 21- 5 | 21- 8 | 21-11 |
| 550.00 | 21- 7 | 21-11 | 22- 2 | 22- 5 | 22- 9 | 23- 0 | 23- 3 | 23- 6 | 23- 9 | 24- 0 |
| 575.00 | 23- 7 | 23-11 | 24- 3 | 24- 6 | 24-10 | 25- 1 | 25- 5 | 25- 8 | 26- 0 | 26- 3 |
| 600.00 | 25- 9 | 26- 1 | 26- 5 | 26- 9 | 27- 0 | 27- 4 | 27- 8 | 28- 0 | 28- 4 | 28- 7 |
| 625.00 | 27-11 | 28- 3 | 28- 8 | 29- 0 | 29- 4 | 29- 8 | 30- 0 | 30- 5 | 30- 9 | 31- 1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS



TABLE OF CONTENTS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1/0 RTS TRIPLEX CONDUCTOR.
CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION
1000 LB TENSION ---------- 821.2
1500 LB TENSION ---------- 821.10
2000 LB TENSION ---------- 821.18

G.O. 95 HEAVY LOADING CONDITION
1000 LB TENSION ---------- 821.26
1500 LB TENSION ---------- 821.34
2000 LB TENSION ---------- 821.42

SDG&E EXTRA HEAVY LOADING CONDITION
1000 LB TENSION ---------- 821.50
1500 LB TENSION ---------- 821.56
2000 LB TENSION ---------- 821.64

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 821.72
1500 LB TENSION ---------- 821.80
2000 LB TENSION ---------- 821.88

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 821.96
1500 LB TENSION ---------- 821.104
2000 LB TENSION ---------- 821.112

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 821.120
1500 LB TENSION ---------- 821.128
2000 LB TENSION ---------- 821.136

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 821.144
1500 LB TENSION ---------- 821.152
2000 LB TENSION ---------- 821.160

111 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 821.168
1500 LB TENSION ---------- 821.176
2000 LB TENSION ---------- 821.184

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 821.192
1500 LB TENSION ---------- 821.200
2000 LB TENSION ---------- 821.208


**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

1/0 RTS TRIPLEX TABLE OF CONTENTS

Span = 100 ft

| ign Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 25 | 0 | 8 | 0 | 0.809 | 1.01 | 1000 | 1.01 | 1000* |
| 25 | 0 | 0 | 0 | 0.481 | 0.75 | 798 | 0.75 | 806 |
| 30 | 0 | 0 | 0 | 0.481 | 0.79 | 759 | 0.78 | 767 |
| 40 | 0 | 0 | 0 | 0.481 | 0.87 | 689 | 0.86 | 697 |
| 50 | 0 | 0 | 0 | 0.481 | 0.96 | 627 | 0.95 | 635 |
| 60 | 0 | 0 | 0 | 0.481 | 1.05 | 574 | 1.03 | 582 |
| 70 | 0 | 0 | 0 | 0.481 | 1.14 | 530 | 1.12 | 536 |
| 80 | 0 | 0 | 0 | 0.481 | 1.22 | 491 | 1.21 | 497 |
| 90 | 0 | 0 | 0 | 0.481 | 1.31 | 459 | 1.3 | 463 |
| 100 | 0 | 0 | 0 | 0.481 | 1.4 | 431 | 1.39 | 434 |
| 110 | 0 | 0 | 0 | 0.481 | 1.48 | 406 | 1.47 | 409 |
| 120 | 0 | 0 | 0 | 0.481 | 1.56 | 385 | 1.55 | 389 |
| 130 | 0 | 0 | 0 | 0.481 | 1.64 | 367 | 1.62 | 372 |
| 167 | 0 | 0 | 0 | 0.481 | 1.89 | 319 | 1.86 | 323 |
| 212 | 0 | 0 | 0 | 0.481 | 2.16 | 278 | 2.14 | 282 |

* Design Condition

Span = 200 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 25 | 0 | 8 | 0 | 0.809 | 4.05 | 1000 | 4.05 | 1000* |
| 25 | 0 | 0 | 0 | 0.481 | 3.65 | 659 | 3.63 | 663 |
| 30 | 0 | 0 | 0 | 0.481 | 3.72 | 648 | 3.7 | 651 |
| 40 | 0 | 0 | 0 | 0.481 | 3.85 | 626 | 3.83 | 629 |
| 50 | 0 | 0 | 0 | 0.481 | 3.98 | 606 | 3.96 | 609 |
| 60 | 0 | 0 | 0 | 0.481 | 4.1 | 587 | 4.08 | 590 |
| 70 | 0 | 0 | 0 | 0.481 | 4.23 | 570 | 4.21 | 572 |
| 80 | 0 | 0 | 0 | 0.481 | 4.35 | 554 | 4.33 | 556 |
| 90 | 0 | 0 | 0 | 0.481 | 4.47 | 540 | 4.45 | 541 |
| 100 | 0 | 0 | 0 | 0.481 | 4.58 | 526 | 4.57 | 527 |
| 110 | 0 | 0 | 0 | 0.481 | 4.7 | 513 | 4.69 | 514 |
| 120 | 0 | 0 | 0 | 0.481 | 4.81 | 501 | 4.81 | 502 |
| 130 | 0 | 0 | 0 | 0.481 | 4.92 | 490 | 4.91 | 491 |
| 167 | 0 | 0 | 0 | 0.481 | 5.3 | 455 | 5.27 | 458 |
| 212 | 0 | 0 | 0 | 0.481 | 5.71 | 423 | 5.68 | 425 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 9.14 | 1000 | 9.14 | 1000* |
| 25 | 0 | 0 | 0 | 0.481 | 8.71 | 624 | 8.68 | 625 |
| 30 | 0 | 0 | 0 | 0.481 | 8.78 | 619 | 8.75 | 620 |
| 40 | 0 | 0 | 0 | 0.481 | 8.92 | 609 | 8.89 | 611 |
| 50 | 0 | 0 | 0 | 0.481 | 9.05 | 600 | 9.03 | 601 |
| 60 | 0 | 0 | 0 | 0.481 | 9.19 | 591 | 9.17 | 592 |
| 70 | 0 | 0 | 0 | 0.481 | 9.33 | 583 | 9.31 | 584 |
| 80 | 0 | 0 | 0 | 0.481 | 9.46 | 574 | 9.44 | 575 |
| 90 | 0 | 0 | 0 | 0.481 | 9.59 | 567 | 9.58 | 567 |
| 100 | 0 | 0 | 0 | 0.481 | 9.72 | 559 | 9.71 | 560 |
| 110 | 0 | 0 | 0 | 0.481 | 9.85 | 552 | 9.84 | 552 |
| 120 | 0 | 0 | 0 | 0.481 | 9.98 | 545 | 9.97 | 545 |
| 130 | 0 | 0 | 0 | 0.481 | 10.1 | 538 | 10.1 | 538 |
| 167 | 0 | 0 | 0 | 0.481 | 10.54 | 516 | 10.51 | 517 |
| 212 | 0 | 0 | 0 | 0.481 | 11.02 | 493 | 11 | 495 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 16.29 | 1000 | 16.29 | 1000* |
| 25 | 0 | 0 | 0 | 0.481 | 15.85 | 611 | 15.82 | 612 |
| 30 | 0 | 0 | 0 | 0.481 | 15.92 | 608 | 15.9 | 609 |
| 40 | 0 | 0 | 0 | 0.481 | 16.06 | 603 | 16.04 | 604 |
| 50 | 0 | 0 | 0 | 0.481 | 16.21 | 598 | 16.18 | 598 |
| 60 | 0 | 0 | 0 | 0.481 | 16.35 | 592 | 16.33 | 593 |
| 70 | 0 | 0 | 0 | 0.481 | 16.49 | 588 | 16.47 | 588 |
| 80 | 0 | 0 | 0 | 0.481 | 16.62 | 583 | 16.61 | 583 |
| 90 | 0 | 0 | 0 | 0.481 | 16.76 | 578 | 16.75 | 578 |
| 100 | 0 | 0 | 0 | 0.481 | 16.9 | 573 | 16.89 | 574 |
| 110 | 0 | 0 | 0 | 0.481 | 17.03 | 569 | 17.03 | 569 |
| 120 | 0 | 0 | 0 | 0.481 | 17.17 | 564 | 17.16 | 565 |
| 130 | 0 | 0 | 0 | 0.481 | 17.3 | 560 | 17.3 | 560 |
| 167 | 0 | 0 | 0 | 0.481 | 17.77 | 546 | 17.75 | 546 |
| 212 | 0 | 0 | 0 | 0.481 | 18.3 | 530 | 18.27 | 531 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 25.55 | 1000 | 25.55 | 1000* |
| 25 | 0 | 0 | 0 | 0.481 | 25.11 | 605 | 25.08 | 605 |
| 30 | 0 | 0 | 0 | 0.481 | 25.18 | 603 | 25.15 | 604 |
| 40 | 0 | 0 | 0 | 0.481 | 25.32 | 600 | 25.3 | 600 |
| 50 | 0 | 0 | 0 | 0.481 | 25.46 | 596 | 25.44 | 597 |
| 60 | 0 | 0 | 0 | 0.481 | 25.61 | 593 | 25.59 | 594 |
| 70 | 0 | 0 | 0 | 0.481 | 25.75 | 590 | 25.73 | 590 |
| 80 | 0 | 0 | 0 | 0.481 | 25.89 | 587 | 25.87 | 587 |
| 90 | 0 | 0 | 0 | 0.481 | 26.03 | 584 | 26.02 | 584 |
| 100 | 0 | 0 | 0 | 0.481 | 26.17 | 581 | 26.16 | 581 |
| 110 | 0 | 0 | 0 | 0.481 | 26.31 | 578 | 26.3 | 578 |
| 120 | 0 | 0 | 0 | 0.481 | 26.45 | 575 | 26.44 | 575 |
| 130 | 0 | 0 | 0 | 0.481 | 26.58 | 572 | 26.58 | 572 |
| 167 | 0 | 0 | 0 | 0.481 | 27.07 | 562 | 27.05 | 562 |
| 212 | 0 | 0 | 0 | 0.481 | 27.62 | 551 | 27.6 | 551 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 |
| 150 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-1 | 3-4 |
| 175 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-0 | 4-3 | 4-6 |
| 200 | 2-10 | 3-2 | 3-5 | 3-9 | 4-2 | 4-6 | 4-10 | 5-2 | 5-7 | 5-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100 | 0-9 | 0-10 | 0-10 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 |
| 150 | 1-7 | 1-9 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 |
| 175 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 |
| 200 | 2-10 | 3-2 | 3-6 | 3-10 | 4-2 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125 | 1-5 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 |
| 150 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 |
| 175 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 200 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 |
| 225 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 |
| 250 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125 | 1-5 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 |
| 150 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-8 |
| 175 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 200 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 |
| 225 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 5-11 |
| 250 | 5-7 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 |
| 175 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 |
| 200 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 |
| 225 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 |
| 250 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 275 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 |
| 300 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-9 | 9-10 |
| 325 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 |
| 350 | 11-9 | 11-11 | 12-1 | 12-4 | 12-6 | 12-8 | 12-10 | 13-1 | 13-3 | 13-5 |
| 375 | 13-6 | 13-8 | 13-11 | 14-1 | 14-4 | 14-7 | 14-9 | 15-0 | 15-2 | 15-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 |
| 175 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 |
| 200 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 |
| 225 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 |
| 250 | 6-0 | 6-1 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 275 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 |
| 300 | 8-8 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 |
| 325 | 10-2 | 10-4 | 10-6 | 10-8 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 |
| 350 | 11-9 | 11-11 | 12-2 | 12-4 | 12-6 | 12-8 | 12-11 | 13-1 | 13-3 | 13-5 |
| 375 | 13-6 | 13-9 | 13-11 | 14-2 | 14-4 | 14-7 | 14-9 | 15-0 | 15-2 | 15-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 225 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 |
| 250 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 |
| 275 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-0 |
| 300 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 |
| 325 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-1 | 11-2 | 11-3 |
| 350 | 12-1 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 | 12-9 | 12-10 | 12-11 | 13-0 |
| 375 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 | 15-0 |
| 400 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 | 16-6 | 16-7 | 16-9 | 16-11 | 17-0 |
| 425 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 |
| 450 | 19-11 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-3 | 21-5 | 21-7 |
| 475 | 22-3 | 22-5 | 22-8 | 22-10 | 23-1 | 23-3 | 23-5 | 23-8 | 23-10 | 24-0 |
| 500 | 24-8 | 24-10 | 25-1 | 25-4 | 25-6 | 25-9 | 26-0 | 26-2 | 26-5 | 26-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 225 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 250 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 |
| 275 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 8-0 | 8-0 |
| 300 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 |
| 325 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-3 |
| 350 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 | 12-7 | 12-9 | 12-10 | 12-11 | 13-0 |
| 375 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 | 15-0 |
| 400 | 15-9 | 15-11 | 16-1 | 16-2 | 16-4 | 16-6 | 16-7 | 16-9 | 16-11 | 17-0 |
| 425 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 |
| 450 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 |
| 475 | 22-3 | 22-6 | 22-8 | 22-10 | 23-1 | 23-3 | 23-6 | 23-8 | 23-10 | 24-1 |
| 500 | 24-8 | 24-11 | 25-2 | 25-4 | 25-7 | 25-9 | 26-0 | 26-3 | 26-5 | 26-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 |
| 275 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 300 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 |
| 325 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 |
| 350 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-10 |
| 375 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 |
| 400 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-8 | 16-9 | 16-10 |
| 425 | 18-1 | 18-2 | 18-3 | 18-4 | 18-6 | 18-7 | 18-8 | 18-9 | 18-11 | 19-0 |
| 450 | 20-3 | 20-4 | 20-6 | 20-7 | 20-9 | 20-10 | 20-11 | 21-1 | 21-2 | 21-3 |
| 475 | 22-7 | 22-8 | 22-10 | 22-11 | 23-1 | 23-3 | 23-4 | 23-6 | 23-7 | 23-9 |
| 500 | 25-0 | 25-2 | 25-4 | 25-5 | 25-7 | 25-9 | 25-10 | 26-0 | 26-2 | 26-4 |
| 525 | 27-7 | 27-9 | 27-11 | 28-1 | 28-3 | 28-5 | 28-6 | 28-8 | 28-10 | 29-0 |
| 550 | 30-3 | 30-5 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 | 31-6 | 31-8 | 31-10 |
| 575 | 33-1 | 33-4 | 33-6 | 33-8 | 33-11 | 34-1 | 34-3 | 34-5 | 34-8 | 34-10 |
| 600 | 36-1 | 36-3 | 36-6 | 36-8 | 36-11 | 37-1 | 37-4 | 37-6 | 37-9 | 37-11 |
| 625 | 39-2 | 39-4 | 39-7 | 39-10 | 40-1 | 40-3 | 40-6 | 40-9 | 40-11 | 41-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 |
| 275 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 300 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 |
| 325 | 10-7 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 |
| 350 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-10 |
| 375 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-8 | 14-9 |
| 400 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 |
| 425 | 18-1 | 18-2 | 18-3 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-11 | 19-0 |
| 450 | 20-3 | 20-5 | 20-6 | 20-7 | 20-9 | 20-10 | 20-11 | 21-1 | 21-2 | 21-4 |
| 475 | 22-7 | 22-9 | 22-10 | 23-0 | 23-1 | 23-3 | 23-4 | 23-6 | 23-7 | 23-9 |
| 500 | 25-0 | 25-2 | 25-4 | 25-6 | 25-7 | 25-9 | 25-11 | 26-0 | 26-2 | 26-4 |
| 525 | 27-7 | 27-9 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-10 | 29-0 |
| 550 | 30-4 | 30-6 | 30-8 | 30-10 | 31-0 | 31-2 | 31-4 | 31-6 | 31-8 | 31-10 |
| 575 | 33-2 | 33-4 | 33-6 | 33-9 | 33-11 | 34-1 | 34-3 | 34-6 | 34-8 | 34-10 |
| 600 | 36-1 | 36-4 | 36-6 | 36-9 | 36-11 | 37-2 | 37-4 | 37-7 | 37-9 | 37-11 |
| 625 | 39-2 | 39-5 | 39-8 | 39-10 | 40-1 | 40-4 | 40-6 | 40-9 | 41-0 | 41-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS



OH821.9

TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 0.67 | 1500 | 0.67 | 1500* |
| 25 | 0 | 0 | 0 | 0.481 | 0.43 | 1382 | 0.43 | 1389 |
| 30 | 0 | 0 | 0 | 0.481 | 0.45 | 1325 | 0.45 | 1334 |
| 40 | 0 | 0 | 0 | 0.481 | 0.5 | 1212 | 0.49 | 1226 |
| 50 | 0 | 0 | 0 | 0.481 | 0.55 | 1103 | 0.54 | 1121 |
| 60 | 0 | 0 | 0 | 0.481 | 0.6 | 1001 | 0.59 | 1021 |
| 70 | 0 | 0 | 0 | 0.481 | 0.66 | 906 | 0.65 | 927 |
| 80 | 0 | 0 | 0 | 0.481 | 0.73 | 819 | 0.72 | 839 |
| 90 | 0 | 0 | 0 | 0.481 | 0.81 | 741 | 0.79 | 760 |
| 100 | 0 | 0 | 0 | 0.481 | 0.89 | 672 | 0.87 | 690 |
| 110 | 0 | 0 | 0 | 0.481 | 0.98 | 613 | 0.96 | 628 |
| 120 | 0 | 0 | 0 | 0.481 | 1.07 | 563 | 1.05 | 575 |
| 130 | 0 | 0 | 0 | 0.481 | 1.16 | 519 | 1.14 | 530 |
| 167 | 0 | 0 | 0 | 0.481 | 1.45 | 414 | 1.41 | 426 |
| 212 | 0 | 0 | 0 | 0.481 | 1.77 | 340 | 1.73 | 348 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 2.7 | 1500 | 2.7 | 1500* |
| 25 | 0 | 0 | 0 | 0.481 | 2.06 | 1166 | 2.04 | 1177 |
| 30 | 0 | 0 | 0 | 0.481 | 2.13 | 1130 | 2.11 | 1142 |
| 40 | 0 | 0 | 0 | 0.481 | 2.26 | 1064 | 2.24 | 1076 |
| 50 | 0 | 0 | 0 | 0.481 | 2.4 | 1003 | 2.37 | 1016 |
| 60 | 0 | 0 | 0 | 0.481 | 2.54 | 949 | 2.51 | 960 |
| 70 | 0 | 0 | 0 | 0.481 | 2.68 | 899 | 2.64 | 910 |
| 80 | 0 | 0 | 0 | 0.481 | 2.82 | 854 | 2.79 | 864 |
| 90 | 0 | 0 | 0 | 0.481 | 2.96 | 813 | 2.93 | 823 |
| 100 | 0 | 0 | 0 | 0.481 | 3.1 | 777 | 3.07 | 785 |
| 110 | 0 | 0 | 0 | 0.481 | 3.24 | 743 | 3.21 | 750 |
| 120 | 0 | 0 | 0 | 0.481 | 3.38 | 713 | 3.35 | 719 |
| 130 | 0 | 0 | 0 | 0.481 | 3.51 | 686 | 3.49 | 691 |
| 167 | 0 | 0 | 0 | 0.481 | 3.99 | 604 | 3.94 | 611 |
| 212 | 0 | 0 | 0 | 0.481 | 4.48 | 538 | 4.43 | 544 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 25 | 0 | 8 | 0 | 0.809 | 6.08 | 1500 | 6.08 | 1500* |
| 25 | 0 | 0 | 0 | 0.481 | 5.24 | 1034 | 5.2 | 1042 |
| 30 | 0 | 0 | 0 | 0.481 | 5.33 | 1016 | 5.29 | 1024 |
| 40 | 0 | 0 | 0 | 0.481 | 5.51 | 983 | 5.47 | 990 |
| 50 | 0 | 0 | 0 | 0.481 | 5.7 | 952 | 5.65 | 959 |
| 60 | 0 | 0 | 0 | 0.481 | 5.87 | 923 | 5.83 | 929 |
| 70 | 0 | 0 | 0 | 0.481 | 6.05 | 896 | 6.01 | 902 |
| 80 | 0 | 0 | 0 | 0.481 | 6.23 | 871 | 6.19 | 876 |
| 90 | 0 | 0 | 0 | 0.481 | 6.4 | 847 | 6.36 | 852 |
| 100 | 0 | 0 | 0 | 0.481 | 6.57 | 825 | 6.53 | 830 |
| 110 | 0 | 0 | 0 | 0.481 | 6.74 | 805 | 6.7 | 809 |
| 120 | 0 | 0 | 0 | 0.481 | 6.91 | 785 | 6.87 | 789 |
| 130 | 0 | 0 | 0 | 0.481 | 7.07 | 767 | 7.04 | 770 |
| 167 | 0 | 0 | 0 | 0.481 | 7.66 | 708 | 7.62 | 712 |
| 212 | 0 | 0 | 0 | 0.481 | 8.28 | 656 | 8.23 | 660 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 25 | 0 | 8 | 0 | 0.809 | 10.82 | 1500 | 10.82 | 1500* |
| 25 | 0 | 0 | 0 | 0.481 | 9.9 | 974 | 9.85 | 979 |
| 30 | 0 | 0 | 0 | 0.481 | 10 | 964 | 9.95 | 969 |
| 40 | 0 | 0 | 0 | 0.481 | 10.2 | 945 | 10.15 | 950 |
| 50 | 0 | 0 | 0 | 0.481 | 10.4 | 927 | 10.35 | 932 |
| 60 | 0 | 0 | 0 | 0.481 | 10.6 | 910 | 10.55 | 914 |
| 70 | 0 | 0 | 0 | 0.481 | 10.79 | 894 | 10.74 | 898 |
| 80 | 0 | 0 | 0 | 0.481 | 10.98 | 879 | 10.94 | 882 |
| 90 | 0 | 0 | 0 | 0.481 | 11.17 | 864 | 11.13 | 867 |
| 100 | 0 | 0 | 0 | 0.481 | 11.36 | 850 | 11.32 | 853 |
| 110 | 0 | 0 | 0 | 0.481 | 11.55 | 836 | 11.51 | 839 |
| 120 | 0 | 0 | 0 | 0.481 | 11.73 | 823 | 11.7 | 825 |
| 130 | 0 | 0 | 0 | 0.481 | 11.91 | 811 | 11.88 | 813 |
| 167 | 0 | 0 | 0 | 0.481 | 12.57 | 769 | 12.54 | 770 |
| 212 | 0 | 0 | 0 | 0.481 | 13.27 | 728 | 13.23 | 731 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 16.93 | 1500 | 16.93 | 1500* |
| 25 | 0 | 0 | 0 | 0.481 | 15.98 | 945 | 15.92 | 948 |
| 30 | 0 | 0 | 0 | 0.481 | 16.08 | 939 | 16.03 | 942 |
| 40 | 0 | 0 | 0 | 0.481 | 16.29 | 927 | 16.24 | 930 |
| 50 | 0 | 0 | 0 | 0.481 | 16.5 | 915 | 16.44 | 918 |
| 60 | 0 | 0 | 0 | 0.481 | 16.7 | 904 | 16.65 | 907 |
| 70 | 0 | 0 | 0 | 0.481 | 16.9 | 893 | 16.86 | 896 |
| 80 | 0 | 0 | 0 | 0.481 | 17.1 | 883 | 17.06 | 885 |
| 90 | 0 | 0 | 0 | 0.481 | 17.3 | 873 | 17.26 | 875 |
| 100 | 0 | 0 | 0 | 0.481 | 17.5 | 863 | 17.46 | 865 |
| 110 | 0 | 0 | 0 | 0.481 | 17.7 | 854 | 17.66 | 855 |
| 120 | 0 | 0 | 0 | 0.481 | 17.89 | 844 | 17.86 | 846 |
| 130 | 0 | 0 | 0 | 0.481 | 18.08 | 836 | 18.05 | 837 |
| 167 | 0 | 0 | 0 | 0.481 | 18.78 | 805 | 18.76 | 806 |
| 212 | 0 | 0 | 0 | 0.481 | 19.55 | 773 | 19.5 | 775 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 100 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 125 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 150 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 2-0 | 2-2 |
| 175 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 |
| 200 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-2 | 3-6 | 3-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 |
| 100 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 125 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 |
| 150 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 |
| 175 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 |
| 200 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS



OH821.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 150 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 175 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 |
| 200 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-2 |
| 225 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 |
| 250 | 3-1 | 3-4 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 | 4-10 | 5-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 |
| 150 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 175 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 |
| 200 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 |
| 225 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 |
| 250 | 3-2 | 3-4 | 3-6 | 3-9 | 4-0 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 |
| 175 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 |
| 200 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 225 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 250 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 |
| 275 | 4-4 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-8 |
| 300 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 |
| 325 | 6-0 | 6-3 | 6-5 | 6-8 | 6-10 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 |
| 350 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 |
| 375 | 8-0 | 8-3 | 8-7 | 8-10 | 9-1 | 9-5 | 9-8 | 9-11 | 10-3 | 10-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 |
| 175 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 |
| 200 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 225 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 250 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 |
| 275 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 |
| 300 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 |
| 325 | 6-1 | 6-3 | 6-6 | 6-8 | 6-11 | 7-1 | 7-4 | 7-6 | 7-9 | 7-11 |
| 350 | 7-0 | 7-3 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 |
| 375 | 8-1 | 8-4 | 8-7 | 8-11 | 9-2 | 9-6 | 9-9 | 10-0 | 10-3 | 10-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS



OH821.15

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 |
| 225 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 |
| 250 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 275 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 300 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-6 |
| 325 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 |
| 350 | 7-6 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 | 8-6 | 8-8 | 8-10 |
| 375 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 |
| 400 | 9-9 | 9-11 | 10-2 | 10-4 | 10-7 | 10-9 | 10-11 | 11-2 | 11-4 | 11-6 |
| 425 | 11-0 | 11-3 | 11-6 | 11-8 | 11-11 | 12-2 | 12-4 | 12-7 | 12-9 | 13-0 |
| 450 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 | 13-7 | 13-10 | 14-1 | 14-4 | 14-7 |
| 475 | 13-9 | 14-0 | 14-4 | 14-7 | 14-11 | 15-2 | 15-5 | 15-8 | 16-0 | 16-3 |
| 500 | 15-3 | 15-7 | 15-10 | 16-2 | 16-6 | 16-10 | 17-1 | 17-5 | 17-8 | 18-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 |
| 225 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 |
| 250 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 |
| 275 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 300 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-5 | 6-6 |
| 325 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 |
| 350 | 7-6 | 7-8 | 7-10 | 8-0 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 |
| 375 | 8-7 | 8-9 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 |
| 400 | 9-10 | 10-0 | 10-2 | 10-5 | 10-7 | 10-9 | 11-0 | 11-2 | 11-4 | 11-7 |
| 425 | 11-1 | 11-4 | 11-6 | 11-9 | 12-0 | 12-2 | 12-5 | 12-7 | 12-10 | 13-0 |
| 450 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-8 | 13-11 | 14-2 | 14-5 | 14-7 |
| 475 | 13-10 | 14-1 | 14-5 | 14-8 | 14-11 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 |
| 500 | 15-4 | 15-8 | 15-11 | 16-3 | 16-7 | 16-10 | 17-2 | 17-6 | 17-9 | 18-1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 |
| 275 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 |
| 300 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 |
| 325 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 350 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 |
| 375 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 |
| 400 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 | 11-4 |
| 425 | 11-5 | 11-7 | 11-9 | 11-11 | 12-0 | 12-2 | 12-4 | 12-6 | 12-7 | 12-9 |
| 450 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 |
| 475 | 14-3 | 14-6 | 14-8 | 14-10 | 15-0 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 |
| 500 | 15-10 | 16-0 | 16-3 | 16-5 | 16-8 | 16-10 | 17-1 | 17-3 | 17-6 | 17-8 |
| 525 | 17-5 | 17-8 | 17-11 | 18-2 | 18-4 | 18-7 | 18-10 | 19-0 | 19-3 | 19-6 |
| 550 | 19-2 | 19-5 | 19-8 | 19-11 | 20-2 | 20-5 | 20-8 | 20-11 | 21-2 | 21-4 |
| 575 | 20-11 | 21-2 | 21-6 | 21-9 | 22-0 | 22-4 | 22-7 | 22-10 | 23-1 | 23-4 |
| 600 | 22-9 | 23-1 | 23-5 | 23-8 | 24-0 | 24-3 | 24-7 | 24-10 | 25-2 | 25-5 |
| 625 | 24-9 | 25-1 | 25-5 | 25-9 | 26-0 | 26-4 | 26-8 | 27-0 | 27-4 | 27-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 |
| 275 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 |
| 300 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 |
| 325 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 |
| 350 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 |
| 375 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 |
| 400 | 10-2 | 10-3 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 |
| 425 | 11-6 | 11-7 | 11-9 | 11-11 | 12-1 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 |
| 450 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 |
| 475 | 14-4 | 14-6 | 14-8 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-10 | 16-0 |
| 500 | 15-10 | 16-1 | 16-3 | 16-6 | 16-8 | 16-11 | 17-1 | 17-4 | 17-6 | 17-8 |
| 525 | 17-6 | 17-9 | 18-0 | 18-2 | 18-5 | 18-8 | 18-10 | 19-1 | 19-4 | 19-6 |
| 550 | 19-3 | 19-6 | 19-9 | 20-0 | 20-3 | 20-6 | 20-8 | 20-11 | 21-2 | 21-5 |
| 575 | 21-0 | 21-3 | 21-7 | 21-10 | 22-1 | 22-4 | 22-8 | 22-11 | 23-2 | 23-5 |
| 600 | 22-10 | 23-2 | 23-6 | 23-9 | 24-1 | 24-4 | 24-8 | 24-11 | 25-3 | 25-6 |
| 625 | 24-10 | 25-2 | 25-6 | 25-10 | 26-1 | 26-5 | 26-9 | 27-1 | 27-4 | 27-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 0.51 | 1992 | 0.51 | 2000* |
| 25 | 0 | 0 | 0 | 0.481 | 0.31 | 1921 | 0.31 | 1934 |
| 30 | 0 | 0 | 0 | 0.481 | 0.32 | 1859 | 0.32 | 1877 |
| 40 | 0 | 0 | 0 | 0.481 | 0.35 | 1735 | 0.34 | 1761 |
| 50 | 0 | 0 | 0 | 0.481 | 0.37 | 1612 | 0.37 | 1646 |
| 60 | 0 | 0 | 0 | 0.481 | 0.4 | 1492 | 0.39 | 1531 |
| 70 | 0 | 0 | 0 | 0.481 | 0.44 | 1374 | 0.42 | 1418 |
| 80 | 0 | 0 | 0 | 0.481 | 0.48 | 1260 | 0.46 | 1306 |
| 90 | 0 | 0 | 0 | 0.481 | 0.52 | 1149 | 0.5 | 1197 |
| 100 | 0 | 0 | 0 | 0.481 | 0.58 | 1044 | 0.55 | 1092 |
| 110 | 0 | 0 | 0 | 0.481 | 0.64 | 945 | 0.61 | 992 |
| 120 | 0 | 0 | 0 | 0.481 | 0.7 | 855 | 0.67 | 898 |
| 130 | 0 | 0 | 0 | 0.481 | 0.78 | 773 | 0.74 | 812 |
| 167 | 0 | 0 | 0 | 0.481 | 1.08 | 557 | 1.02 | 589 |
| 212 | 0 | 0 | 0 | 0.481 | 1.43 | 422 | 1.36 | 442 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 2.02 | 2000 | 2.02 | 2000* |
| 25 | 0 | 0 | 0 | 0.481 | 1.37 | 1755 | 1.36 | 1768 |
| 30 | 0 | 0 | 0 | 0.481 | 1.41 | 1702 | 1.4 | 1719 |
| 40 | 0 | 0 | 0 | 0.481 | 1.5 | 1601 | 1.48 | 1622 |
| 50 | 0 | 0 | 0 | 0.481 | 1.6 | 1503 | 1.57 | 1528 |
| 60 | 0 | 0 | 0 | 0.481 | 1.7 | 1411 | 1.67 | 1438 |
| 70 | 0 | 0 | 0 | 0.481 | 1.82 | 1324 | 1.78 | 1352 |
| 80 | 0 | 0 | 0 | 0.481 | 1.94 | 1243 | 1.89 | 1271 |
| 90 | 0 | 0 | 0 | 0.481 | 2.06 | 1167 | 2.01 | 1195 |
| 100 | 0 | 0 | 0 | 0.481 | 2.19 | 1098 | 2.14 | 1124 |
| 110 | 0 | 0 | 0 | 0.481 | 2.33 | 1034 | 2.27 | 1059 |
| 120 | 0 | 0 | 0 | 0.481 | 2.46 | 977 | 2.41 | 999 |
| 130 | 0 | 0 | 0 | 0.481 | 2.6 | 924 | 2.55 | 944 |
| 167 | 0 | 0 | 0 | 0.481 | 3.12 | 770 | 3.07 | 784 |
| 212 | 0 | 0 | 0 | 0.481 | 3.67 | 655 | 3.61 | 668 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 4.56 | 2000 | 4.56 | 2000* |
| 25 | 0 | 0 | 0 | 0.481 | 3.46 | 1567 | 3.42 | 1583 |
| 30 | 0 | 0 | 0 | 0.481 | 3.54 | 1530 | 3.5 | 1548 |
| 40 | 0 | 0 | 0 | 0.481 | 3.71 | 1460 | 3.66 | 1479 |
| 50 | 0 | 0 | 0 | 0.481 | 3.88 | 1394 | 3.83 | 1414 |
| 60 | 0 | 0 | 0 | 0.481 | 4.06 | 1333 | 4 | 1353 |
| 70 | 0 | 0 | 0 | 0.481 | 4.24 | 1276 | 4.18 | 1296 |
| 80 | 0 | 0 | 0 | 0.481 | 4.43 | 1224 | 4.36 | 1242 |
| 90 | 0 | 0 | 0 | 0.481 | 4.61 | 1175 | 4.54 | 1193 |
| 100 | 0 | 0 | 0 | 0.481 | 4.8 | 1130 | 4.73 | 1146 |
| 110 | 0 | 0 | 0 | 0.481 | 4.98 | 1088 | 4.91 | 1103 |
| 120 | 0 | 0 | 0 | 0.481 | 5.16 | 1049 | 5.1 | 1063 |
| 130 | 0 | 0 | 0 | 0.481 | 5.35 | 1013 | 5.28 | 1026 |
| 167 | 0 | 0 | 0 | 0.481 | 6.01 | 901 | 5.96 | 910 |
| 212 | 0 | 0 | 0 | 0.481 | 6.74 | 805 | 6.66 | 814 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 8.1 | 2000 | 8.1 | 2000* |
| 25 | 0 | 0 | 0 | 0.481 | 6.72 | 1433 | 6.66 | 1447 |
| 30 | 0 | 0 | 0 | 0.481 | 6.83 | 1410 | 6.77 | 1424 |
| 40 | 0 | 0 | 0 | 0.481 | 7.06 | 1365 | 6.98 | 1379 |
| 50 | 0 | 0 | 0 | 0.481 | 7.28 | 1323 | 7.2 | 1337 |
| 60 | 0 | 0 | 0 | 0.481 | 7.5 | 1284 | 7.43 | 1297 |
| 70 | 0 | 0 | 0 | 0.481 | 7.73 | 1247 | 7.65 | 1260 |
| 80 | 0 | 0 | 0 | 0.481 | 7.95 | 1212 | 7.87 | 1225 |
| 90 | 0 | 0 | 0 | 0.481 | 8.17 | 1179 | 8.09 | 1191 |
| 100 | 0 | 0 | 0 | 0.481 | 8.39 | 1149 | 8.31 | 1160 |
| 110 | 0 | 0 | 0 | 0.481 | 8.61 | 1120 | 8.53 | 1130 |
| 120 | 0 | 0 | 0 | 0.481 | 8.82 | 1093 | 8.74 | 1102 |
| 130 | 0 | 0 | 0 | 0.481 | 9.03 | 1067 | 8.96 | 1076 |
| 167 | 0 | 0 | 0 | 0.481 | 9.8 | 984 | 9.74 | 990 |
| 212 | 0 | 0 | 0 | 0.481 | 10.66 | 905 | 10.59 | 911 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 0.809 | 12.68 | 2000 | 12.68 | 2000* |
| 25 | 0 | 0 | 0 | 0.481 | 11.14 | 1352 | 11.05 | 1363 |
| 30 | 0 | 0 | 0 | 0.481 | 11.26 | 1337 | 11.18 | 1347 |
| 40 | 0 | 0 | 0 | 0.481 | 11.52 | 1308 | 11.43 | 1318 |
| 50 | 0 | 0 | 0 | 0.481 | 11.77 | 1280 | 11.68 | 1290 |
| 60 | 0 | 0 | 0 | 0.481 | 12.01 | 1254 | 11.92 | 1264 |
| 70 | 0 | 0 | 0 | 0.481 | 12.26 | 1229 | 12.17 | 1238 |
| 80 | 0 | 0 | 0 | 0.481 | 12.5 | 1205 | 12.41 | 1214 |
| 90 | 0 | 0 | 0 | 0.481 | 12.75 | 1182 | 12.66 | 1191 |
| 100 | 0 | 0 | 0 | 0.481 | 12.99 | 1161 | 12.9 | 1168 |
| 110 | 0 | 0 | 0 | 0.481 | 13.22 | 1140 | 13.14 | 1147 |
| 120 | 0 | 0 | 0 | 0.481 | 13.46 | 1120 | 13.38 | 1127 |
| 130 | 0 | 0 | 0 | 0.481 | 13.69 | 1101 | 13.61 | 1108 |
| 167 | 0 | 0 | 0 | 0.481 | 14.54 | 1038 | 14.47 | 1042 |
| 212 | 0 | 0 | 0 | 0.481 | 15.5 | 974 | 15.42 | 978 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 150 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 |
| 175 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 |
| 200 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 100 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 125 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 175 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 |
| 200 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS



OH821.21

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 125 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 150 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 175 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-9 |
| 200 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 |
| 225 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 |
| 250 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 150 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 175 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 200 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 |
| 225 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 |
| 250 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.22

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 175 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 200 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 225 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 |
| 250 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 |
| 275 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 300 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 |
| 325 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-11 | 5-1 | 5-4 | 5-7 | 5-9 |
| 350 | 4-7 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 |
| 375 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 175 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 |
| 200 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 225 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 |
| 250 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 |
| 275 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-10 | 4-0 | 4-2 |
| 300 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-10 | 5-0 |
| 325 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-10 |
| 350 | 4-7 | 4-10 | 5-1 | 5-3 | 5-6 | 5-9 | 6-0 | 6-3 | 6-6 | 6-9 |
| 375 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-8 | 6-11 | 7-2 | 7-6 | 7-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 |
| 225 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 |
| 250 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 275 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 |
| 300 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-10 |
| 325 | 4-4 | 4-6 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-8 |
| 350 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 |
| 375 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-4 | 7-6 |
| 400 | 6-7 | 6-9 | 7-0 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-4 | 8-6 |
| 425 | 7-5 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 |
| 450 | 8-3 | 8-7 | 8-10 | 9-1 | 9-5 | 9-8 | 10-0 | 10-3 | 10-6 | 10-10 |
| 475 | 9-3 | 9-6 | 9-10 | 10-2 | 10-6 | 10-9 | 11-1 | 11-5 | 11-9 | 12-0 |
| 500 | 10-3 | 10-7 | 10-11 | 11-3 | 11-7 | 11-11 | 12-4 | 12-8 | 13-0 | 13-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 |
| 225 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 250 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 |
| 275 | 3-1 | 3-3 | 3-4 | 3-5 | 3-7 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 |
| 300 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-9 | 4-10 |
| 325 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 |
| 350 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 |
| 375 | 5-10 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-7 |
| 400 | 6-7 | 6-10 | 7-1 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 | 8-5 | 8-7 |
| 425 | 7-6 | 7-9 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 |
| 450 | 8-4 | 8-8 | 8-11 | 9-3 | 9-6 | 9-9 | 10-1 | 10-4 | 10-7 | 10-11 |
| 475 | 9-4 | 9-8 | 9-11 | 10-3 | 10-7 | 10-11 | 11-3 | 11-6 | 11-10 | 12-2 |
| 500 | 10-4 | 10-8 | 11-0 | 11-5 | 11-9 | 12-1 | 12-5 | 12-9 | 13-1 | 13-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 |
| 275 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 300 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 325 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-7 |
| 350 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-4 | 6-5 |
| 375 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-5 |
| 400 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 |
| 425 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 9-0 | 9-2 | 9-4 | 9-6 |
| 450 | 8-10 | 9-1 | 9-3 | 9-5 | 9-8 | 9-10 | 10-1 | 10-3 | 10-5 | 10-8 |
| 475 | 9-10 | 10-1 | 10-4 | 10-6 | 10-9 | 11-0 | 11-2 | 11-5 | 11-8 | 11-10 |
| 500 | 10-11 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 |
| 525 | 12-1 | 12-4 | 12-7 | 12-10 | 13-2 | 13-5 | 13-8 | 13-11 | 14-3 | 14-6 |
| 550 | 13-3 | 13-6 | 13-10 | 14-2 | 14-5 | 14-9 | 15-0 | 15-4 | 15-7 | 15-11 |
| 575 | 14-5 | 14-9 | 15-1 | 15-5 | 15-9 | 16-1 | 16-5 | 16-9 | 17-1 | 17-5 |
| 600 | 15-9 | 16-1 | 16-6 | 16-10 | 17-2 | 17-6 | 17-11 | 18-3 | 18-7 | 18-11 |
| 625 | 17-1 | 17-6 | 17-10 | 18-3 | 18-8 | 19-0 | 19-5 | 19-9 | 20-2 | 20-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 |
| 275 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 300 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 325 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 |
| 350 | 5-5 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-3 | 6-4 | 6-6 |
| 375 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 | 7-0 | 7-2 | 7-4 | 7-5 |
| 400 | 7-1 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 |
| 425 | 7-11 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-5 | 9-7 |
| 450 | 8-11 | 9-1 | 9-4 | 9-6 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 | 10-9 |
| 475 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 | 11-1 | 11-3 | 11-6 | 11-9 | 11-11 |
| 500 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-9 | 13-0 | 13-3 |
| 525 | 12-2 | 12-5 | 12-8 | 13-0 | 13-3 | 13-6 | 13-9 | 14-1 | 14-4 | 14-7 |
| 550 | 13-4 | 13-8 | 13-11 | 14-3 | 14-6 | 14-10 | 15-2 | 15-5 | 15-9 | 16-0 |
| 575 | 14-7 | 14-11 | 15-3 | 15-7 | 15-11 | 16-3 | 16-7 | 16-10 | 17-2 | 17-6 |
| 600 | 15-10 | 16-3 | 16-7 | 16-11 | 17-4 | 17-8 | 18-0 | 18-4 | 18-9 | 19-1 |
| 625 | 17-2 | 17-7 | 18-0 | 18-5 | 18-9 | 19-2 | 19-7 | 19-11 | 20-4 | 20-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 0 | 0.50G | 6 | 0 | 1.712 | 2.14 | 1000 | 2.14 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 1.76 | 341 | 1.74 | 347 |
| 30 | 0 | 0 | 0 | 0.481 | 1.98 | 304 | 1.96 | 308 |
| 40 | 0 | 0 | 0 | 0.481 | 2.05 | 294 | 2.02 | 297 |
| 50 | 0 | 0 | 0 | 0.481 | 2.11 | 285 | 2.09 | 288 |
| 60 | 0 | 0 | 0 | 0.481 | 2.18 | 277 | 2.16 | 279 |
| 70 | 0 | 0 | 0 | 0.481 | 2.24 | 269 | 2.22 | 271 |
| 80 | 0 | 0 | 0 | 0.481 | 2.3 | 262 | 2.29 | 263 |
| 90 | 0 | 0 | 0 | 0.481 | 2.36 | 255 | 2.35 | 257 |
| 100 | 0 | 0 | 0 | 0.481 | 2.42 | 249 | 2.4 | 251 |
| 110 | 0 | 0 | 0 | 0.481 | 2.48 | 243 | 2.46 | 245 |
| 120 | 0 | 0 | 0 | 0.481 | 2.53 | 238 | 2.51 | 240 |
| 130 | 0 | 0 | 0 | 0.481 | 2.58 | 233 | 2.56 | 236 |
| 167 | 0 | 0 | 0 | 0.481 | 2.76 | 218 | 2.74 | 220 |
| 212 | 0 | 0 | 0 | 0.481 | 2.97 | 203 | 2.95 | 205 |

* Design Condition

Span = 200 ft

| Design Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 0 | 0.50G | 6 | 0 | 1.712 | 8.63 | 1000 | 8.63 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 8.25 | 294 | 8.22 | 295 |
| 30 | 0 | 0 | 0 | 0.481 | 8.46 | 286 | 8.43 | 287 |
| 40 | 0 | 0 | 0 | 0.481 | 8.52 | 284 | 8.5 | 285 |
| 50 | 0 | 0 | 0 | 0.481 | 8.59 | 282 | 8.57 | 283 |
| 60 | 0 | 0 | 0 | 0.481 | 8.66 | 280 | 8.64 | 280 |
| 70 | 0 | 0 | 0 | 0.481 | 8.73 | 278 | 8.71 | 278 |
| 80 | 0 | 0 | 0 | 0.481 | 8.79 | 276 | 8.78 | 276 |
| 90 | 0 | 0 | 0 | 0.481 | 8.86 | 274 | 8.85 | 274 |
| 100 | 0 | 0 | 0 | 0.481 | 8.93 | 272 | 8.91 | 272 |
| 110 | 0 | 0 | 0 | 0.481 | 8.99 | 270 | 8.97 | 270 |
| 120 | 0 | 0 | 0 | 0.481 | 9.06 | 268 | 9.03 | 269 |
| 130 | 0 | 0 | 0 | 0.481 | 9.11 | 266 | 9.09 | 267 |
| 167 | 0 | 0 | 0 | 0.481 | 9.33 | 260 | 9.3 | 261 |
| 212 | 0 | 0 | 0 | 0.481 | 9.58 | 253 | 9.56 | 254 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 19.59 | 1000 | 19.59 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 19.21 | 286 | 19.19 | 287 |
| 30 | 0 | 0 | 0 | 0.481 | 19.42 | 283 | 19.4 | 284 |
| 40 | 0 | 0 | 0 | 0.481 | 19.49 | 282 | 19.47 | 283 |
| 50 | 0 | 0 | 0 | 0.481 | 19.56 | 281 | 19.54 | 282 |
| 60 | 0 | 0 | 0 | 0.481 | 19.63 | 280 | 19.61 | 281 |
| 70 | 0 | 0 | 0 | 0.481 | 19.7 | 279 | 19.68 | 280 |
| 80 | 0 | 0 | 0 | 0.481 | 19.77 | 279 | 19.75 | 279 |
| 90 | 0 | 0 | 0 | 0.481 | 19.83 | 278 | 19.82 | 278 |
| 100 | 0 | 0 | 0 | 0.481 | 19.9 | 277 | 19.88 | 277 |
| 110 | 0 | 0 | 0 | 0.481 | 19.97 | 276 | 19.95 | 276 |
| 120 | 0 | 0 | 0 | 0.481 | 20.03 | 275 | 20.01 | 275 |
| 130 | 0 | 0 | 0 | 0.481 | 20.09 | 274 | 20.07 | 274 |
| 167 | 0 | 0 | 0 | 0.481 | 20.32 | 271 | 20.29 | 272 |
| 212 | 0 | 0 | 0 | 0.481 | 20.59 | 268 | 20.56 | 268 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 35.32 | 1000 | 35.32 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 34.94 | 284 | 34.91 | 284 |
| 30 | 0 | 0 | 0 | 0.481 | 35.15 | 282 | 35.12 | 282 |
| 40 | 0 | 0 | 0 | 0.481 | 35.22 | 282 | 35.2 | 282 |
| 50 | 0 | 0 | 0 | 0.481 | 35.29 | 281 | 35.27 | 281 |
| 60 | 0 | 0 | 0 | 0.481 | 35.36 | 281 | 35.34 | 281 |
| 70 | 0 | 0 | 0 | 0.481 | 35.42 | 280 | 35.41 | 280 |
| 80 | 0 | 0 | 0 | 0.481 | 35.49 | 280 | 35.48 | 280 |
| 90 | 0 | 0 | 0 | 0.481 | 35.56 | 279 | 35.55 | 279 |
| 100 | 0 | 0 | 0 | 0.481 | 35.63 | 279 | 35.61 | 279 |
| 110 | 0 | 0 | 0 | 0.481 | 35.7 | 278 | 35.67 | 278 |
| 120 | 0 | 0 | 0 | 0.481 | 35.76 | 278 | 35.74 | 278 |
| 130 | 0 | 0 | 0 | 0.481 | 35.82 | 277 | 35.8 | 277 |
| 167 | 0 | 0 | 0 | 0.481 | 36.05 | 276 | 36.03 | 276 |
| 212 | 0 | 0 | 0 | 0.481 | 36.33 | 274 | 36.3 | 274 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 56.23 | 1000 | 56.23 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 55.86 | 283 | 55.83 | 283 |
| 30 | 0 | 0 | 0 | 0.481 | 56.06 | 282 | 56.04 | 282 |
| 40 | 0 | 0 | 0 | 0.481 | 56.13 | 281 | 56.11 | 281 |
| 50 | 0 | 0 | 0 | 0.481 | 56.2 | 281 | 56.18 | 281 |
| 60 | 0 | 0 | 0 | 0.481 | 56.27 | 281 | 56.25 | 281 |
| 70 | 0 | 0 | 0 | 0.481 | 56.34 | 280 | 56.32 | 280 |
| 80 | 0 | 0 | 0 | 0.481 | 56.41 | 280 | 56.39 | 280 |
| 90 | 0 | 0 | 0 | 0.481 | 56.47 | 280 | 56.46 | 280 |
| 100 | 0 | 0 | 0 | 0.481 | 56.54 | 279 | 56.53 | 280 |
| 110 | 0 | 0 | 0 | 0.481 | 56.61 | 279 | 56.59 | 279 |
| 120 | 0 | 0 | 0 | 0.481 | 56.68 | 279 | 56.65 | 279 |
| 130 | 0 | 0 | 0 | 0.481 | 56.74 | 279 | 56.71 | 279 |
| 167 | 0 | 0 | 0 | 0.481 | 56.97 | 278 | 56.94 | 278 |
| 212 | 0 | 0 | 0 | 0.481 | 57.25 | 276 | 57.22 | 277 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 |
| 100 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 |
| 125 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 150 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 |
| 175 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 |
| 200 | 7-7 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 |
| 100 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 |
| 125 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 150 | 4-4 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 |
| 175 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 |
| 200 | 7-8 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-8 | 9-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 |
| 125 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 |
| 150 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 |
| 175 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 |
| 200 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 9-0 |
| 225 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 |
| 250 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 |
| 125 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 |
| 150 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 |
| 175 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 |
| 200 | 8-5 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 |
| 225 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 |
| 250 | 13-1 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 | 14-0 | 14-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 4-11 | 4-11 | 5-0 |
| 175 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 |
| 200 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 |
| 225 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 |
| 250 | 13-5 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 |
| 275 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 |
| 300 | 19-4 | 19-5 | 19-6 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 19-11 |
| 325 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 |
| 350 | 26-4 | 26-5 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 |
| 375 | 30-4 | 30-5 | 30-6 | 30-8 | 30-9 | 30-10 | 30-11 | 31-1 | 31-2 | 31-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 4-11 | 4-11 | 5-0 |
| 175 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 |
| 200 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 |
| 225 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 |
| 250 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 |
| 275 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 |
| 300 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 |
| 325 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 | 23-5 |
| 350 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-1 | 27-2 | 27-3 |
| 375 | 30-4 | 30-5 | 30-7 | 30-8 | 30-9 | 30-11 | 31-0 | 31-1 | 31-2 | 31-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 |
| 225 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-2 |
| 250 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 |
| 275 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 |
| 300 | 19-8 | 19-8 | 19-9 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 |
| 325 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 |
| 350 | 26-9 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 | 27-3 |
| 375 | 30-9 | 30-10 | 30-11 | 30-11 | 31-0 | 31-1 | 31-2 | 31-2 | 31-3 | 31-4 |
| 400 | 35-1 | 35-1 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-7 | 35-8 |
| 425 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 |
| 450 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 |
| 475 | 49-8 | 49-9 | 49-10 | 49-11 | 50-0 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 |
| 500 | 55-1 | 55-2 | 55-4 | 55-5 | 55-6 | 55-8 | 55-9 | 55-10 | 56-0 | 56-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 |
| 225 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-2 | 11-3 |
| 250 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 |
| 275 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 |
| 300 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 |
| 325 | 23-1 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 |
| 350 | 26-10 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 | 27-3 |
| 375 | 30-10 | 30-10 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-3 | 31-3 | 31-4 |
| 400 | 35-1 | 35-2 | 35-3 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-8 |
| 425 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-1 | 40-2 | 40-3 | 40-4 |
| 450 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-1 | 45-2 | 45-3 | 45-4 |
| 475 | 49-8 | 49-9 | 49-10 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-7 |
| 500 | 55-1 | 55-3 | 55-4 | 55-5 | 55-7 | 55-8 | 55-9 | 55-11 | 56-0 | 56-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 13-10 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 |
| 275 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 | 16-11 | 16-11 | 16-11 |
| 300 | 19-11 | 20-0 | 20-0 | 20-0 | 20-0 | 20-1 | 20-1 | 20-1 | 20-2 | 20-2 |
| 325 | 23-5 | 23-5 | 23-6 | 23-6 | 23-7 | 23-7 | 23-7 | 23-8 | 23-8 | 23-8 |
| 350 | 27-2 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 | 27-5 | 27-5 | 27-6 | 27-6 |
| 375 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-5 | 31-6 | 31-6 | 31-7 | 31-7 |
| 400 | 35-7 | 35-8 | 35-8 | 35-9 | 35-9 | 35-10 | 35-11 | 35-11 | 36-0 | 36-0 |
| 425 | 40-3 | 40-4 | 40-4 | 40-5 | 40-5 | 40-6 | 40-7 | 40-7 | 40-8 | 40-8 |
| 450 | 45-2 | 45-3 | 45-4 | 45-4 | 45-5 | 45-6 | 45-6 | 45-7 | 45-8 | 45-8 |
| 475 | 50-5 | 50-6 | 50-7 | 50-7 | 50-8 | 50-9 | 50-10 | 50-10 | 50-11 | 51-0 |
| 500 | 56-0 | 56-0 | 56-1 | 56-2 | 56-3 | 56-4 | 56-5 | 56-6 | 56-6 | 56-7 |
| 525 | 61-10 | 61-11 | 62-0 | 62-0 | 62-1 | 62-2 | 62-3 | 62-4 | 62-5 | 62-6 |
| 550 | 67-11 | 68-0 | 68-1 | 68-3 | 68-4 | 68-5 | 68-6 | 68-7 | 68-8 | 68-9 |
| 575 | 74-5 | 74-6 | 74-7 | 74-8 | 74-9 | 74-11 | 75-0 | 75-1 | 75-2 | 75-3 |
| 600 | 81-2 | 81-3 | 81-4 | 81-6 | 81-7 | 81-8 | 81-9 | 81-11 | 82-0 | 82-1 |
| 625 | 88-3 | 88-4 | 88-6 | 88-7 | 88-8 | 88-10 | 88-11 | 89-0 | 89-2 | 89-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 |
| 275 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 | 16-11 | 16-11 | 16-11 |
| 300 | 19-11 | 20-0 | 20-0 | 20-0 | 20-1 | 20-1 | 20-1 | 20-1 | 20-2 | 20-2 |
| 325 | 23-5 | 23-6 | 23-6 | 23-6 | 23-7 | 23-7 | 23-7 | 23-8 | 23-8 | 23-8 |
| 350 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-5 | 27-6 | 27-6 |
| 375 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-6 | 31-6 | 31-6 | 31-7 | 31-7 |
| 400 | 35-8 | 35-8 | 35-9 | 35-9 | 35-10 | 35-10 | 35-11 | 35-11 | 36-0 | 36-0 |
| 425 | 40-3 | 40-4 | 40-4 | 40-5 | 40-6 | 40-6 | 40-7 | 40-7 | 40-8 | 40-9 |
| 450 | 45-3 | 45-3 | 45-4 | 45-5 | 45-5 | 45-6 | 45-7 | 45-7 | 45-8 | 45-9 |
| 475 | 50-5 | 50-6 | 50-7 | 50-8 | 50-8 | 50-9 | 50-10 | 50-11 | 50-11 | 51-0 |
| 500 | 56-0 | 56-1 | 56-2 | 56-2 | 56-3 | 56-4 | 56-5 | 56-6 | 56-7 | 56-7 |
| 525 | 61-10 | 61-11 | 62-0 | 62-1 | 62-2 | 62-3 | 62-3 | 62-4 | 62-5 | 62-6 |
| 550 | 68-0 | 68-1 | 68-2 | 68-3 | 68-4 | 68-5 | 68-6 | 68-7 | 68-8 | 68-9 |
| 575 | 74-5 | 74-6 | 74-7 | 74-9 | 74-10 | 74-11 | 75-0 | 75-1 | 75-2 | 75-3 |
| 600 | 81-2 | 81-4 | 81-5 | 81-6 | 81-7 | 81-9 | 81-10 | 81-11 | 82-0 | 82-1 |
| 625 | 88-3 | 88-5 | 88-6 | 88-7 | 88-9 | 88-10 | 88-11 | 89-1 | 89-2 | 89-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 1.43 | 1500 | 1.43 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 0.72 | 830 | 0.7 | 858 |
| 30 | 0 | 0 | 0 | 0.481 | 0.97 | 621 | 0.93 | 645 |
| 40 | 0 | 0 | 0 | 0.481 | 1.06 | 569 | 1.02 | 590 |
| 50 | 0 | 0 | 0 | 0.481 | 1.15 | 525 | 1.11 | 543 |
| 60 | 0 | 0 | 0 | 0.481 | 1.23 | 487 | 1.2 | 503 |
| 70 | 0 | 0 | 0 | 0.481 | 1.32 | 455 | 1.28 | 468 |
| 80 | 0 | 0 | 0 | 0.481 | 1.41 | 428 | 1.37 | 439 |
| 90 | 0 | 0 | 0 | 0.481 | 1.49 | 404 | 1.46 | 413 |
| 100 | 0 | 0 | 0 | 0.481 | 1.57 | 383 | 1.54 | 391 |
| 110 | 0 | 0 | 0 | 0.481 | 1.65 | 365 | 1.62 | 372 |
| 120 | 0 | 0 | 0 | 0.481 | 1.73 | 348 | 1.69 | 357 |
| 130 | 0 | 0 | 0 | 0.481 | 1.8 | 335 | 1.76 | 343 |
| 167 | 0 | 0 | 0 | 0.481 | 2.03 | 296 | 1.99 | 302 |
| 212 | 0 | 0 | 0 | 0.481 | 2.29 | 263 | 2.25 | 267 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 5.73 | 1500 | 5.73 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 4.87 | 495 | 4.81 | 501 |
| 30 | 0 | 0 | 0 | 0.481 | 5.19 | 464 | 5.14 | 469 |
| 40 | 0 | 0 | 0 | 0.481 | 5.3 | 455 | 5.25 | 460 |
| 50 | 0 | 0 | 0 | 0.481 | 5.4 | 447 | 5.35 | 451 |
| 60 | 0 | 0 | 0 | 0.481 | 5.5 | 438 | 5.46 | 442 |
| 70 | 0 | 0 | 0 | 0.481 | 5.6 | 431 | 5.56 | 434 |
| 80 | 0 | 0 | 0 | 0.481 | 5.7 | 423 | 5.66 | 426 |
| 90 | 0 | 0 | 0 | 0.481 | 5.8 | 416 | 5.76 | 419 |
| 100 | 0 | 0 | 0 | 0.481 | 5.9 | 409 | 5.86 | 412 |
| 110 | 0 | 0 | 0 | 0.481 | 5.99 | 403 | 5.96 | 405 |
| 120 | 0 | 0 | 0 | 0.481 | 6.08 | 397 | 6.04 | 399 |
| 130 | 0 | 0 | 0 | 0.481 | 6.18 | 391 | 6.13 | 394 |
| 167 | 0 | 0 | 0 | 0.481 | 6.48 | 373 | 6.43 | 376 |
| 212 | 0 | 0 | 0 | 0.481 | 6.83 | 354 | 6.78 | 356 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 12.94 | 1500 | 12.94 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 12.08 | 451 | 12.02 | 453 |
| 30 | 0 | 0 | 0 | 0.481 | 12.4 | 439 | 12.34 | 441 |
| 40 | 0 | 0 | 0 | 0.481 | 12.5 | 436 | 12.45 | 438 |
| 50 | 0 | 0 | 0 | 0.481 | 12.61 | 432 | 12.56 | 434 |
| 60 | 0 | 0 | 0 | 0.481 | 12.71 | 429 | 12.66 | 430 |
| 70 | 0 | 0 | 0 | 0.481 | 12.81 | 425 | 12.77 | 427 |
| 80 | 0 | 0 | 0 | 0.481 | 12.91 | 422 | 12.87 | 424 |
| 90 | 0 | 0 | 0 | 0.481 | 13.01 | 419 | 12.97 | 420 |
| 100 | 0 | 0 | 0 | 0.481 | 13.11 | 416 | 13.08 | 417 |
| 110 | 0 | 0 | 0 | 0.481 | 13.21 | 413 | 13.18 | 414 |
| 120 | 0 | 0 | 0 | 0.481 | 13.31 | 410 | 13.27 | 411 |
| 130 | 0 | 0 | 0 | 0.481 | 13.41 | 407 | 13.36 | 408 |
| 167 | 0 | 0 | 0 | 0.481 | 13.74 | 397 | 13.69 | 399 |
| 212 | 0 | 0 | 0 | 0.481 | 14.12 | 387 | 14.07 | 388 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 23.14 | 1500 | 23.14 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 22.28 | 437 | 22.22 | 438 |
| 30 | 0 | 0 | 0 | 0.481 | 22.6 | 431 | 22.54 | 432 |
| 40 | 0 | 0 | 0 | 0.481 | 22.7 | 429 | 22.65 | 430 |
| 50 | 0 | 0 | 0 | 0.481 | 22.81 | 427 | 22.75 | 428 |
| 60 | 0 | 0 | 0 | 0.481 | 22.91 | 425 | 22.86 | 426 |
| 70 | 0 | 0 | 0 | 0.481 | 23.01 | 424 | 22.97 | 424 |
| 80 | 0 | 0 | 0 | 0.481 | 23.11 | 422 | 23.07 | 423 |
| 90 | 0 | 0 | 0 | 0.481 | 23.22 | 420 | 23.17 | 421 |
| 100 | 0 | 0 | 0 | 0.481 | 23.32 | 418 | 23.28 | 419 |
| 110 | 0 | 0 | 0 | 0.481 | 23.42 | 416 | 23.38 | 417 |
| 120 | 0 | 0 | 0 | 0.481 | 23.52 | 415 | 23.48 | 415 |
| 130 | 0 | 0 | 0 | 0.481 | 23.62 | 413 | 23.57 | 414 |
| 167 | 0 | 0 | 0 | 0.481 | 23.96 | 407 | 23.91 | 408 |
| 212 | 0 | 0 | 0 | 0.481 | 24.36 | 401 | 24.31 | 402 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 36.44 | 1500 | 36.44 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 35.58 | 431 | 35.52 | 432 |
| 30 | 0 | 0 | 0 | 0.481 | 35.89 | 427 | 35.84 | 428 |
| 40 | 0 | 0 | 0 | 0.481 | 36 | 426 | 35.95 | 427 |
| 50 | 0 | 0 | 0 | 0.481 | 36.1 | 425 | 36.05 | 426 |
| 60 | 0 | 0 | 0 | 0.481 | 36.2 | 424 | 36.16 | 424 |
| 70 | 0 | 0 | 0 | 0.481 | 36.31 | 423 | 36.26 | 423 |
| 80 | 0 | 0 | 0 | 0.481 | 36.41 | 422 | 36.37 | 422 |
| 90 | 0 | 0 | 0 | 0.481 | 36.51 | 420 | 36.47 | 421 |
| 100 | 0 | 0 | 0 | 0.481 | 36.61 | 419 | 36.58 | 420 |
| 110 | 0 | 0 | 0 | 0.481 | 36.72 | 418 | 36.68 | 419 |
| 120 | 0 | 0 | 0 | 0.481 | 36.82 | 417 | 36.78 | 418 |
| 130 | 0 | 0 | 0 | 0.481 | 36.92 | 416 | 36.87 | 417 |
| 167 | 0 | 0 | 0 | 0.481 | 37.26 | 412 | 37.21 | 413 |
| 212 | 0 | 0 | 0 | 0.481 | 37.67 | 408 | 37.62 | 409 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 100 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 |
| 125 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 |
| 150 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 |
| 175 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 |
| 200 | 3-5 | 3-9 | 4-1 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 150 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-9 |
| 175 | 2-8 | 3-0 | 3-3 | 3-6 | 3-9 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 |
| 200 | 3-6 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-8 | 6-0 | 6-4 | 6-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 |
| 125 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 |
| 150 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 |
| 175 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 200 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 225 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 | 7-2 | 7-4 | 7-5 | 7-6 |
| 250 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100 | 1-3 | 1-4 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 |
| 125 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 |
| 150 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 |
| 175 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 200 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 |
| 225 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 |
| 250 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.38

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 |
| 175 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 |
| 200 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 |
| 225 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 |
| 250 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 |
| 275 | 10-3 | 10-4 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 |
| 300 | 12-3 | 12-4 | 12-5 | 12-7 | 12-8 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 |
| 325 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 | 15-3 | 15-4 | 15-6 |
| 350 | 16-8 | 16-10 | 17-0 | 17-1 | 17-3 | 17-5 | 17-6 | 17-8 | 17-10 | 17-11 |
| 375 | 19-2 | 19-4 | 19-6 | 19-8 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 |
| 175 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 |
| 200 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 |
| 225 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 |
| 250 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 |
| 275 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 |
| 300 | 12-4 | 12-5 | 12-6 | 12-7 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-3 |
| 325 | 14-5 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 | 15-5 | 15-6 |
| 350 | 16-9 | 16-11 | 17-0 | 17-2 | 17-4 | 17-5 | 17-7 | 17-9 | 17-10 | 18-0 |
| 375 | 19-3 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-2 | 20-4 | 20-6 | 20-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS



TABLE OF CONTENTS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 |
| 225 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 |
| 250 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 |
| 275 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 |
| 300 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 | 13-2 |
| 325 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-4 | 15-5 |
| 350 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 |
| 375 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 |
| 400 | 22-5 | 22-7 | 22-8 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-3 | 23-5 |
| 425 | 25-4 | 25-6 | 25-7 | 25-8 | 25-10 | 25-11 | 26-1 | 26-2 | 26-4 | 26-5 |
| 450 | 28-5 | 28-7 | 28-8 | 28-10 | 29-0 | 29-1 | 29-3 | 29-4 | 29-6 | 29-8 |
| 475 | 31-8 | 31-10 | 32-0 | 32-2 | 32-4 | 32-5 | 32-7 | 32-9 | 32-11 | 33-0 |
| 500 | 35-2 | 35-4 | 35-6 | 35-8 | 35-10 | 36-0 | 36-2 | 36-4 | 36-6 | 36-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 |
| 225 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 |
| 250 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 |
| 275 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 |
| 300 | 12-8 | 12-8 | 12-9 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 |
| 325 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 |
| 350 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 |
| 375 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 |
| 400 | 22-6 | 22-7 | 22-8 | 22-10 | 22-11 | 23-0 | 23-1 | 23-3 | 23-4 | 23-5 |
| 425 | 25-5 | 25-6 | 25-8 | 25-9 | 25-11 | 26-0 | 26-1 | 26-3 | 26-4 | 26-5 |
| 450 | 28-6 | 28-8 | 28-9 | 28-11 | 29-0 | 29-2 | 29-3 | 29-5 | 29-7 | 29-8 |
| 475 | 31-9 | 31-11 | 32-1 | 32-3 | 32-4 | 32-6 | 32-8 | 32-10 | 32-11 | 33-1 |
| 500 | 35-3 | 35-5 | 35-7 | 35-9 | 35-11 | 36-1 | 36-2 | 36-4 | 36-6 | 36-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-1 |
| 275 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 |
| 300 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 |
| 325 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 |
| 350 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-10 | 17-11 |
| 375 | 20-0 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-5 | 20-5 | 20-6 | 20-7 |
| 400 | 22-10 | 22-11 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-3 | 23-4 | 23-5 |
| 425 | 25-9 | 25-10 | 25-11 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-4 | 26-5 |
| 450 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 |
| 475 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-10 | 32-11 | 33-0 | 33-1 |
| 500 | 35-9 | 35-10 | 35-11 | 36-1 | 36-2 | 36-3 | 36-4 | 36-6 | 36-7 | 36-8 |
| 525 | 39-5 | 39-6 | 39-8 | 39-9 | 39-11 | 40-0 | 40-1 | 40-3 | 40-4 | 40-6 |
| 550 | 43-4 | 43-5 | 43-7 | 43-8 | 43-10 | 43-11 | 44-1 | 44-2 | 44-4 | 44-5 |
| 575 | 47-4 | 47-6 | 47-8 | 47-9 | 47-11 | 48-1 | 48-2 | 48-4 | 48-6 | 48-7 |
| 600 | 51-7 | 51-9 | 51-11 | 52-1 | 52-3 | 52-5 | 52-6 | 52-8 | 52-10 | 53-0 |
| 625 | 56-1 | 56-3 | 56-5 | 56-7 | 56-9 | 56-11 | 57-1 | 57-3 | 57-5 | 57-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 |
| 275 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-1 |
| 300 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-2 |
| 325 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 | 15-5 |
| 350 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 | 17-11 |
| 375 | 20-1 | 20-2 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 |
| 400 | 22-10 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 |
| 425 | 25-10 | 25-11 | 26-0 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 |
| 450 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 |
| 475 | 32-3 | 32-4 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 |
| 500 | 35-9 | 35-11 | 36-0 | 36-1 | 36-2 | 36-4 | 36-5 | 36-6 | 36-7 | 36-9 |
| 525 | 39-6 | 39-7 | 39-9 | 39-10 | 39-11 | 40-1 | 40-2 | 40-3 | 40-5 | 40-6 |
| 550 | 43-4 | 43-6 | 43-7 | 43-9 | 43-10 | 44-0 | 44-1 | 44-3 | 44-4 | 44-6 |
| 575 | 47-5 | 47-7 | 47-9 | 47-10 | 48-0 | 48-1 | 48-3 | 48-5 | 48-6 | 48-8 |
| 600 | 51-8 | 51-10 | 52-0 | 52-2 | 52-4 | 52-5 | 52-7 | 52-9 | 52-11 | 53-0 |
| 625 | 56-2 | 56-4 | 56-6 | 56-8 | 56-9 | 56-11 | 57-1 | 57-3 | 57-5 | 57-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 1.07 | 2000 | 1.07 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 0.39 | 1558 | 0.38 | 1587 |
| 30 | 0 | 0 | 0 | 0.481 | 0.5 | 1210 | 0.48 | 1256 |
| 40 | 0 | 0 | 0 | 0.481 | 0.55 | 1101 | 0.52 | 1151 |
| 50 | 0 | 0 | 0 | 0.481 | 0.6 | 999 | 0.57 | 1050 |
| 60 | 0 | 0 | 0 | 0.481 | 0.67 | 904 | 0.63 | 954 |
| 70 | 0 | 0 | 0 | 0.481 | 0.74 | 817 | 0.7 | 864 |
| 80 | 0 | 0 | 0 | 0.481 | 0.81 | 739 | 0.77 | 783 |
| 90 | 0 | 0 | 0 | 0.481 | 0.9 | 671 | 0.85 | 710 |
| 100 | 0 | 0 | 0 | 0.481 | 0.98 | 612 | 0.93 | 646 |
| 110 | 0 | 0 | 0 | 0.481 | 1.07 | 562 | 1.02 | 590 |
| 120 | 0 | 0 | 0 | 0.481 | 1.16 | 519 | 1.11 | 543 |
| 130 | 0 | 0 | 0 | 0.481 | 1.25 | 482 | 1.19 | 504 |
| 167 | 0 | 0 | 0 | 0.481 | 1.53 | 394 | 1.47 | 409 |
| 212 | 0 | 0 | 0 | 0.481 | 1.84 | 327 | 1.78 | 338 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 4.29 | 2000 | 4.29 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 2.83 | 851 | 2.74 | 878 |
| 30 | 0 | 0 | 0 | 0.481 | 3.25 | 741 | 3.16 | 762 |
| 40 | 0 | 0 | 0 | 0.481 | 3.39 | 711 | 3.3 | 730 |
| 50 | 0 | 0 | 0 | 0.481 | 3.52 | 684 | 3.43 | 701 |
| 60 | 0 | 0 | 0 | 0.481 | 3.65 | 659 | 3.57 | 675 |
| 70 | 0 | 0 | 0 | 0.481 | 3.79 | 636 | 3.7 | 650 |
| 80 | 0 | 0 | 0 | 0.481 | 3.92 | 615 | 3.83 | 628 |
| 90 | 0 | 0 | 0 | 0.481 | 4.04 | 596 | 3.96 | 608 |
| 100 | 0 | 0 | 0 | 0.481 | 4.17 | 578 | 4.09 | 589 |
| 110 | 0 | 0 | 0 | 0.481 | 4.29 | 562 | 4.22 | 571 |
| 120 | 0 | 0 | 0 | 0.481 | 4.41 | 547 | 4.34 | 555 |
| 130 | 0 | 0 | 0 | 0.481 | 4.53 | 532 | 4.46 | 540 |
| 167 | 0 | 0 | 0 | 0.481 | 4.91 | 491 | 4.84 | 498 |
| 212 | 0 | 0 | 0 | 0.481 | 5.35 | 451 | 5.28 | 457 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 9.67 | 2000 | 9.67 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 8.15 | 666 | 8.04 | 675 |
| 30 | 0 | 0 | 0 | 0.481 | 8.58 | 633 | 8.48 | 640 |
| 40 | 0 | 0 | 0 | 0.481 | 8.72 | 622 | 8.63 | 629 |
| 50 | 0 | 0 | 0 | 0.481 | 8.87 | 613 | 8.77 | 619 |
| 60 | 0 | 0 | 0 | 0.481 | 9 | 603 | 8.91 | 609 |
| 70 | 0 | 0 | 0 | 0.481 | 9.14 | 594 | 9.05 | 600 |
| 80 | 0 | 0 | 0 | 0.481 | 9.28 | 586 | 9.19 | 591 |
| 90 | 0 | 0 | 0 | 0.481 | 9.41 | 577 | 9.33 | 582 |
| 100 | 0 | 0 | 0 | 0.481 | 9.54 | 569 | 9.46 | 574 |
| 110 | 0 | 0 | 0 | 0.481 | 9.67 | 562 | 9.6 | 566 |
| 120 | 0 | 0 | 0 | 0.481 | 9.8 | 554 | 9.73 | 559 |
| 130 | 0 | 0 | 0 | 0.481 | 9.93 | 547 | 9.86 | 551 |
| 167 | 0 | 0 | 0 | 0.481 | 10.36 | 525 | 10.28 | 529 |
| 212 | 0 | 0 | 0 | 0.481 | 10.85 | 501 | 10.78 | 505 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 17.25 | 2000 | 17.25 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 15.73 | 616 | 15.62 | 620 |
| 30 | 0 | 0 | 0 | 0.481 | 16.15 | 599 | 16.05 | 603 |
| 40 | 0 | 0 | 0 | 0.481 | 16.3 | 594 | 16.19 | 598 |
| 50 | 0 | 0 | 0 | 0.481 | 16.43 | 589 | 16.34 | 593 |
| 60 | 0 | 0 | 0 | 0.481 | 16.57 | 584 | 16.48 | 588 |
| 70 | 0 | 0 | 0 | 0.481 | 16.71 | 580 | 16.62 | 583 |
| 80 | 0 | 0 | 0 | 0.481 | 16.85 | 575 | 16.76 | 578 |
| 90 | 0 | 0 | 0 | 0.481 | 16.98 | 571 | 16.9 | 573 |
| 100 | 0 | 0 | 0 | 0.481 | 17.12 | 566 | 17.04 | 569 |
| 110 | 0 | 0 | 0 | 0.481 | 17.25 | 562 | 17.17 | 564 |
| 120 | 0 | 0 | 0 | 0.481 | 17.39 | 558 | 17.31 | 560 |
| 130 | 0 | 0 | 0 | 0.481 | 17.52 | 553 | 17.45 | 556 |
| 167 | 0 | 0 | 0 | 0.481 | 17.97 | 540 | 17.89 | 542 |
| 212 | 0 | 0 | 0 | 0.481 | 18.49 | 525 | 18.41 | 527 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.712 | 27.07 | 2000 | 27.07 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 25.55 | 595 | 25.44 | 597 |
| 30 | 0 | 0 | 0 | 0.481 | 25.97 | 585 | 25.87 | 587 |
| 40 | 0 | 0 | 0 | 0.481 | 26.11 | 582 | 26.01 | 584 |
| 50 | 0 | 0 | 0 | 0.481 | 26.25 | 579 | 26.15 | 581 |
| 60 | 0 | 0 | 0 | 0.481 | 26.39 | 576 | 26.29 | 578 |
| 70 | 0 | 0 | 0 | 0.481 | 26.53 | 573 | 26.43 | 575 |
| 80 | 0 | 0 | 0 | 0.481 | 26.66 | 570 | 26.57 | 572 |
| 90 | 0 | 0 | 0 | 0.481 | 26.8 | 567 | 26.71 | 569 |
| 100 | 0 | 0 | 0 | 0.481 | 26.94 | 565 | 26.85 | 566 |
| 110 | 0 | 0 | 0 | 0.481 | 27.07 | 562 | 26.99 | 563 |
| 120 | 0 | 0 | 0 | 0.481 | 27.21 | 559 | 27.13 | 561 |
| 130 | 0 | 0 | 0 | 0.481 | 27.34 | 556 | 27.27 | 558 |
| 167 | 0 | 0 | 0 | 0.481 | 27.8 | 547 | 27.72 | 549 |
| 212 | 0 | 0 | 0 | 0.481 | 28.34 | 537 | 28.26 | 539 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 125 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 |
| 150 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 |
| 175 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 |
| 200 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-1 | 3-5 | 3-9 | 4-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 100 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 |
| 150 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 |
| 175 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 |
| 200 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.45

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 125 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 150 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 |
| 175 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 |
| 200 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 4-0 | 4-1 | 4-3 |
| 225 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 |
| 250 | 4-9 | 4-11 | 5-2 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 |
| 125 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 |
| 150 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 |
| 175 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 200 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-1 | 4-2 | 4-3 |
| 225 | 3-11 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-5 |
| 250 | 4-10 | 5-1 | 5-4 | 5-6 | 5-9 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.46

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 |
| 175 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 |
| 200 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 |
| 225 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 250 | 5-9 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 |
| 275 | 7-0 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-1 |
| 300 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-7 |
| 325 | 9-9 | 9-11 | 10-2 | 10-4 | 10-6 | 10-7 | 10-9 | 10-11 | 11-1 | 11-3 |
| 350 | 11-4 | 11-7 | 11-9 | 11-11 | 12-2 | 12-4 | 12-6 | 12-8 | 12-11 | 13-1 |
| 375 | 13-0 | 13-3 | 13-6 | 13-9 | 13-11 | 14-2 | 14-4 | 14-7 | 14-10 | 15-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 175 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 200 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 |
| 225 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 |
| 250 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 |
| 275 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-2 |
| 300 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-3 | 9-5 | 9-7 | 9-8 |
| 325 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 |
| 350 | 11-6 | 11-8 | 11-11 | 12-1 | 12-3 | 12-5 | 12-8 | 12-10 | 13-0 | 13-2 |
| 375 | 13-2 | 13-5 | 13-8 | 13-10 | 14-1 | 14-4 | 14-6 | 14-9 | 14-11 | 15-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 |
| 225 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 |
| 250 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 |
| 275 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-1 |
| 300 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 |
| 325 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 |
| 350 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 | 12-9 | 12-10 | 12-11 | 13-0 | 13-2 |
| 375 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 | 15-0 | 15-1 |
| 400 | 15-11 | 16-1 | 16-2 | 16-4 | 16-6 | 16-7 | 16-9 | 16-11 | 17-0 | 17-2 |
| 425 | 18-0 | 18-2 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 |
| 450 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 |
| 475 | 22-5 | 22-8 | 22-10 | 23-1 | 23-3 | 23-5 | 23-8 | 23-10 | 24-1 | 24-3 |
| 500 | 24-11 | 25-1 | 25-4 | 25-7 | 25-9 | 26-0 | 26-3 | 26-5 | 26-8 | 26-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 |
| 225 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 |
| 250 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 |
| 275 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-2 |
| 300 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 |
| 325 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-5 |
| 350 | 12-3 | 12-4 | 12-6 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 |
| 375 | 14-1 | 14-2 | 14-4 | 14-5 | 14-7 | 14-8 | 14-10 | 14-11 | 15-0 | 15-2 |
| 400 | 16-0 | 16-2 | 16-4 | 16-5 | 16-7 | 16-9 | 16-10 | 17-0 | 17-1 | 17-3 |
| 425 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-10 | 19-0 | 19-2 | 19-4 | 19-6 |
| 450 | 20-3 | 20-5 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 |
| 475 | 22-7 | 22-10 | 23-0 | 23-2 | 23-5 | 23-7 | 23-9 | 24-0 | 24-2 | 24-4 |
| 500 | 25-1 | 25-3 | 25-6 | 25-9 | 25-11 | 26-2 | 26-4 | 26-7 | 26-9 | 27-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 |
| 275 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 |
| 300 | 9-3 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 |
| 325 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 | 11-2 | 11-2 | 11-3 | 11-4 | 11-5 |
| 350 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-2 |
| 375 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 |
| 400 | 16-5 | 16-6 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 |
| 425 | 18-7 | 18-8 | 18-9 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-5 | 19-6 |
| 450 | 20-10 | 20-11 | 21-1 | 21-2 | 21-3 | 21-5 | 21-6 | 21-7 | 21-9 | 21-10 |
| 475 | 23-3 | 23-4 | 23-6 | 23-7 | 23-9 | 23-10 | 24-0 | 24-1 | 24-3 | 24-4 |
| 500 | 25-9 | 25-10 | 26-0 | 26-2 | 26-4 | 26-5 | 26-7 | 26-9 | 26-10 | 27-0 |
| 525 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-4 | 29-6 | 29-7 | 29-9 |
| 550 | 31-2 | 31-4 | 31-6 | 31-8 | 31-10 | 32-0 | 32-2 | 32-4 | 32-6 | 32-8 |
| 575 | 34-1 | 34-3 | 34-5 | 34-8 | 34-10 | 35-0 | 35-2 | 35-4 | 35-7 | 35-9 |
| 600 | 37-1 | 37-4 | 37-6 | 37-9 | 37-11 | 38-2 | 38-4 | 38-6 | 38-9 | 38-11 |
| 625 | 40-3 | 40-6 | 40-9 | 40-11 | 41-2 | 41-5 | 41-7 | 41-10 | 42-1 | 42-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 |
| 275 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 |
| 300 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 |
| 325 | 10-11 | 10-11 | 11-0 | 11-1 | 11-2 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 |
| 350 | 12-8 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-3 |
| 375 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-2 |
| 400 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-1 | 17-2 | 17-3 | 17-4 |
| 425 | 18-8 | 18-9 | 18-10 | 18-11 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 |
| 450 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 | 21-6 | 21-7 | 21-8 | 21-10 | 21-11 |
| 475 | 23-4 | 23-5 | 23-7 | 23-8 | 23-10 | 23-11 | 24-1 | 24-2 | 24-4 | 24-5 |
| 500 | 25-10 | 26-0 | 26-1 | 26-3 | 26-5 | 26-6 | 26-8 | 26-10 | 26-11 | 27-1 |
| 525 | 28-6 | 28-8 | 28-10 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 | 29-9 | 29-10 |
| 550 | 31-3 | 31-5 | 31-7 | 31-9 | 31-11 | 32-1 | 32-3 | 32-5 | 32-7 | 32-9 |
| 575 | 34-2 | 34-5 | 34-7 | 34-9 | 34-11 | 35-1 | 35-4 | 35-6 | 35-8 | 35-10 |
| 600 | 37-3 | 37-5 | 37-8 | 37-10 | 38-1 | 38-3 | 38-6 | 38-8 | 38-10 | 39-1 |
| 625 | 40-5 | 40-8 | 40-11 | 41-1 | 41-4 | 41-6 | 41-9 | 42-0 | 42-2 | 42-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 0 | 1.00G | 12 | 0 | 4.182 | 5.29 | 1000 | 5.29 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 5.09 | 119 | 5.08 | 120 |
| 30 | 0 | 0 | 0 | 0.481 | 5.18 | 117 | 5.17 | 118 |
| 40 | 0 | 0 | 0 | 0.481 | 5.21 | 117 | 5.2 | 117 |
| 50 | 0 | 0 | 0 | 0.481 | 5.24 | 116 | 5.22 | 116 |
| 60 | 0 | 0 | 0 | 0.481 | 5.26 | 115 | 5.25 | 116 |
| 70 | 0 | 0 | 0 | 0.481 | 5.29 | 115 | 5.28 | 115 |
| 80 | 0 | 0 | 0 | 0.481 | 5.32 | 114 | 5.31 | 115 |
| 90 | 0 | 0 | 0 | 0.481 | 5.35 | 114 | 5.34 | 114 |
| 100 | 0 | 0 | 0 | 0.481 | 5.38 | 113 | 5.36 | 113 |
| 110 | 0 | 0 | 0 | 0.481 | 5.4 | 113 | 5.39 | 113 |
| 120 | 0 | 0 | 0 | 0.481 | 5.43 | 112 | 5.41 | 112 |
| 130 | 0 | 0 | 0 | 0.481 | 5.45 | 112 | 5.44 | 112 |
| 167 | 0 | 0 | 0 | 0.481 | 5.54 | 110 | 5.53 | 110 |
| 212 | 0 | 0 | 0 | 0.481 | 5.65 | 108 | 5.64 | 108 |

* Design Condition

Span = 200 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 0 | 1.00G | 12 | 0 | 4.182 | 21.92 | 1000 | 21.92 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 21.73 | 116 | 21.71 | 116 |
| 30 | 0 | 0 | 0 | 0.481 | 21.81 | 116 | 21.8 | 116 |
| 40 | 0 | 0 | 0 | 0.481 | 21.84 | 115 | 21.83 | 115 |
| 50 | 0 | 0 | 0 | 0.481 | 21.87 | 115 | 21.86 | 115 |
| 60 | 0 | 0 | 0 | 0.481 | 21.9 | 115 | 21.89 | 115 |
| 70 | 0 | 0 | 0 | 0.481 | 21.93 | 115 | 21.92 | 115 |
| 80 | 0 | 0 | 0 | 0.481 | 21.95 | 115 | 21.94 | 115 |
| 90 | 0 | 0 | 0 | 0.481 | 21.98 | 115 | 21.97 | 115 |
| 100 | 0 | 0 | 0 | 0.481 | 22.01 | 115 | 21.99 | 115 |
| 110 | 0 | 0 | 0 | 0.481 | 22.03 | 114 | 22.02 | 115 |
| 120 | 0 | 0 | 0 | 0.481 | 22.06 | 114 | 22.05 | 114 |
| 130 | 0 | 0 | 0 | 0.481 | 22.09 | 114 | 22.07 | 114 |
| 167 | 0 | 0 | 0 | 0.481 | 22.18 | 114 | 22.16 | 114 |
| 212 | 0 | 0 | 0 | 0.481 | 22.29 | 113 | 22.28 | 113 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 52.97 | 1000 | 52.97 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 52.78 | 115 | 52.77 | 115 |
| 30 | 0 | 0 | 0 | 0.481 | 52.86 | 115 | 52.85 | 115 |
| 40 | 0 | 0 | 0 | 0.481 | 52.89 | 115 | 52.88 | 115 |
| 50 | 0 | 0 | 0 | 0.481 | 52.92 | 115 | 52.91 | 115 |
| 60 | 0 | 0 | 0 | 0.481 | 52.95 | 115 | 52.94 | 115 |
| 70 | 0 | 0 | 0 | 0.481 | 52.98 | 115 | 52.97 | 115 |
| 80 | 0 | 0 | 0 | 0.481 | 53 | 115 | 52.99 | 115 |
| 90 | 0 | 0 | 0 | 0.481 | 53.03 | 115 | 53.02 | 115 |
| 100 | 0 | 0 | 0 | 0.481 | 53.06 | 115 | 53.04 | 115 |
| 110 | 0 | 0 | 0 | 0.481 | 53.08 | 115 | 53.07 | 115 |
| 120 | 0 | 0 | 0 | 0.481 | 53.11 | 115 | 53.09 | 115 |
| 130 | 0 | 0 | 0 | 0.481 | 53.14 | 115 | 53.12 | 115 |
| 167 | 0 | 0 | 0 | 0.481 | 53.23 | 115 | 53.21 | 115 |
| 212 | 0 | 0 | 0 | 0.481 | 53.34 | 114 | 53.33 | 114 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 108.86 | 1000 | 108.86 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 108.68 | 115 | 108.66 | 115 |
| 30 | 0 | 0 | 0 | 0.481 | 108.76 | 115 | 108.75 | 115 |
| 40 | 0 | 0 | 0 | 0.481 | 108.78 | 115 | 108.77 | 115 |
| 50 | 0 | 0 | 0 | 0.481 | 108.81 | 115 | 108.80 | 115 |
| 60 | 0 | 0 | 0 | 0.481 | 108.84 | 115 | 108.83 | 115 |
| 70 | 0 | 0 | 0 | 0.481 | 108.87 | 115 | 108.86 | 115 |
| 80 | 0 | 0 | 0 | 0.481 | 108.89 | 115 | 108.88 | 115 |
| 90 | 0 | 0 | 0 | 0.481 | 108.92 | 115 | 108.91 | 115 |
| 100 | 0 | 0 | 0 | 0.481 | 108.95 | 115 | 108.93 | 115 |
| 110 | 0 | 0 | 0 | 0.481 | 108.97 | 115 | 108.96 | 115 |
| 120 | 0 | 0 | 0 | 0.481 | 109.00 | 115 | 108.98 | 115 |
| 130 | 0 | 0 | 0 | 0.481 | 109.02 | 115 | 109.01 | 115 |
| 167 | 0 | 0 | 0 | 0.481 | 109.11 | 115 | 109.10 | 115 |
| 212 | 0 | 0 | 0 | 0.481 | 109.22 | 115 | 109.21 | 115 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 2-11 | 2-11 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 |
| 100 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 |
| 125 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 |
| 150 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 |
| 175 | 15-10 | 15-11 | 16-0 | 16-1 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 |
| 200 | 20-9 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 | 21-6 | 21-7 | 21-8 | 21-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 2-11 | 2-11 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 |
| 100 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 |
| 125 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 |
| 150 | 11-8 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-2 | 12-3 |
| 175 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 |
| 200 | 20-10 | 20-11 | 21-1 | 21-2 | 21-3 | 21-5 | 21-6 | 21-8 | 21-9 | 21-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 |
| 125 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-6 | 8-6 | 8-6 | 8-6 |
| 150 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 | 12-4 |
| 175 | 16-7 | 16-8 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 |
| 200 | 21-9 | 21-10 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 | 22-0 | 22-0 | 22-0 |
| 225 | 27-8 | 27-8 | 27-9 | 27-9 | 27-10 | 27-10 | 27-11 | 27-11 | 27-11 | 28-0 |
| 250 | 34-4 | 34-4 | 34-5 | 34-5 | 34-6 | 34-7 | 34-7 | 34-8 | 34-8 | 34-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 |
| 125 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-6 | 8-6 | 8-6 | 8-6 |
| 150 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 |
| 175 | 16-7 | 16-8 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 |
| 200 | 21-9 | 21-10 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 | 22-0 | 22-0 | 22-0 |
| 225 | 27-8 | 27-9 | 27-9 | 27-10 | 27-10 | 27-10 | 27-11 | 27-11 | 28-0 | 28-0 |
| 250 | 34-4 | 34-5 | 34-5 | 34-6 | 34-6 | 34-7 | 34-7 | 34-8 | 34-8 | 34-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 12-10 | 12-10 | 12-10 | 12-10 | 12-10 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 |
| 175 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 |
| 200 | 23-0 | 23-0 | 23-0 | 23-0 | 23-0 | 23-1 | 23-1 | 23-1 | 23-1 | 23-1 |
| 225 | 29-3 | 29-3 | 29-3 | 29-3 | 29-3 | 29-4 | 29-4 | 29-4 | 29-4 | 29-4 |
| 250 | 36-3 | 36-3 | 36-4 | 36-4 | 36-4 | 36-4 | 36-4 | 36-5 | 36-5 | 36-5 |
| 275 | 44-1 | 44-2 | 44-2 | 44-2 | 44-3 | 44-3 | 44-3 | 44-3 | 44-4 | 44-4 |
| 300 | 52-10 | 52-10 | 52-11 | 52-11 | 52-11 | 53-0 | 53-0 | 53-0 | 53-1 | 53-1 |
| 325 | 62-5 | 62-5 | 62-6 | 62-6 | 62-6 | 62-7 | 62-7 | 62-8 | 62-8 | 62-8 |
| 350 | 72-11 | 72-11 | 73-0 | 73-0 | 73-1 | 73-1 | 73-2 | 73-2 | 73-2 | 73-3 |
| 375 | 84-4 | 84-4 | 84-5 | 84-6 | 84-6 | 84-7 | 84-7 | 84-8 | 84-8 | 84-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 12-10 | 12-10 | 12-10 | 12-10 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 12-11 |
| 175 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 | 17-7 |
| 200 | 23-0 | 23-0 | 23-0 | 23-0 | 23-0 | 23-1 | 23-1 | 23-1 | 23-1 | 23-1 |
| 225 | 29-3 | 29-3 | 29-3 | 29-3 | 29-3 | 29-4 | 29-4 | 29-4 | 29-4 | 29-4 |
| 250 | 36-3 | 36-3 | 36-4 | 36-4 | 36-4 | 36-4 | 36-5 | 36-5 | 36-5 | 36-5 |
| 275 | 44-2 | 44-2 | 44-2 | 44-2 | 44-3 | 44-3 | 44-3 | 44-3 | 44-4 | 44-4 |
| 300 | 52-10 | 52-10 | 52-11 | 52-11 | 52-11 | 53-0 | 53-0 | 53-0 | 53-1 | 53-1 |
| 325 | 62-5 | 62-5 | 62-6 | 62-6 | 62-7 | 62-7 | 62-7 | 62-8 | 62-8 | 62-9 |
| 350 | 72-11 | 72-11 | 73-0 | 73-0 | 73-1 | 73-1 | 73-2 | 73-2 | 73-3 | 73-3 |
| 375 | 84-4 | 84-5 | 84-5 | 84-6 | 84-6 | 84-7 | 84-7 | 84-8 | 84-8 | 84-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS



OH821.54

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 |
| 225 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 | 32-7 | 32-7 |
| 250 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-6 |
| 275 | 49-2 | 49-3 | 49-3 | 49-3 | 49-3 | 49-3 | 49-3 | 49-3 | 49-3 | 49-4 |
| 300 | 59-0 | 59-0 | 59-0 | 59-0 | 59-1 | 59-1 | 59-1 | 59-1 | 59-1 | 59-1 |
| 325 | 69-9 | 69-10 | 69-10 | 69-10 | 69-10 | 69-11 | 69-11 | 69-11 | 69-11 | 69-11 |
| 350 | 81-8 | 81-8 | 81-8 | 81-8 | 81-9 | 81-9 | 81-9 | 81-9 | 81-10 | 81-10 |
| 375 | 94-7 | 94-8 | 94-8 | 94-8 | 94-8 | 94-9 | 94-9 | 94-9 | 94-9 | 94-10 |
| 400 | 108-9 | 108-9 | 108-9 | 108-10 | 108-10 | 108-10 | 108-11 | 108-11 | 108-11 | 108-11 |
| 425 | 124-0 | 124-1 | 124-1 | 124-2 | 124-2 | 124-2 | 124-3 | 124-3 | 124-3 | 124-4 |
| 450 | 140-7 | 140-8 | 140-8 | 140-9 | 140-9 | 140-10 | 140-10 | 140-11 | 140-11 | 140-11 |
| 475 | 158-7 | 158-7 | 158-8 | 158-8 | 158-9 | 158-9 | 158-10 | 158-10 | 158-10 | 158-11 |
| 500 | 177-10 | 177-11 | 178-0 | 178-0 | 178-1 | 178-1 | 178-2 | 178-2 | 178-3 | 178-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 | 25-7 |
| 225 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 | 32-7 | 32-7 | 32-7 |
| 250 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-5 | 40-6 | 40-6 |
| 275 | 49-2 | 49-3 | 49-3 | 49-3 | 49-3 | 49-3 | 49-3 | 49-3 | 49-4 | 49-4 |
| 300 | 59-0 | 59-0 | 59-0 | 59-0 | 59-1 | 59-1 | 59-1 | 59-1 | 59-1 | 59-1 |
| 325 | 69-10 | 69-10 | 69-10 | 69-10 | 69-10 | 69-11 | 69-11 | 69-11 | 69-11 | 69-11 |
| 350 | 81-8 | 81-8 | 81-8 | 81-9 | 81-9 | 81-9 | 81-9 | 81-10 | 81-10 | 81-10 |
| 375 | 94-7 | 94-8 | 94-8 | 94-8 | 94-9 | 94-9 | 94-9 | 94-9 | 94-10 | 94-10 |
| 400 | 108-9 | 108-9 | 108-9 | 108-10 | 108-10 | 108-10 | 108-11 | 108-11 | 108-11 | 109-0 |
| 425 | 124-1 | 124-1 | 124-1 | 124-2 | 124-2 | 124-3 | 124-3 | 124-3 | 124-4 | 124-4 |
| 450 | 140-8 | 140-8 | 140-9 | 140-9 | 140-9 | 140-10 | 140-10 | 140-11 | 140-11 | 141-0 |
| 475 | 158-7 | 158-7 | 158-8 | 158-8 | 158-9 | 158-9 | 158-10 | 158-10 | 158-11 | 158-11 |
| 500 | 177-11 | 177-11 | 178-0 | 178-0 | 178-1 | 178-1 | 178-2 | 178-3 | 178-3 | 178-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 3.5 | 1500 | 3.5 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 3.05 | 198 | 3.02 | 200 |
| 30 | 0 | 0 | 0 | 0.481 | 3.19 | 189 | 3.16 | 191 |
| 40 | 0 | 0 | 0 | 0.481 | 3.24 | 187 | 3.21 | 188 |
| 50 | 0 | 0 | 0 | 0.481 | 3.28 | 184 | 3.25 | 186 |
| 60 | 0 | 0 | 0 | 0.481 | 3.32 | 182 | 3.3 | 183 |
| 70 | 0 | 0 | 0 | 0.481 | 3.37 | 179 | 3.34 | 181 |
| 80 | 0 | 0 | 0 | 0.481 | 3.41 | 177 | 3.39 | 178 |
| 90 | 0 | 0 | 0 | 0.481 | 3.45 | 175 | 3.43 | 176 |
| 100 | 0 | 0 | 0 | 0.481 | 3.5 | 173 | 3.47 | 174 |
| 110 | 0 | 0 | 0 | 0.481 | 3.53 | 171 | 3.5 | 172 |
| 120 | 0 | 0 | 0 | 0.481 | 3.57 | 169 | 3.54 | 171 |
| 130 | 0 | 0 | 0 | 0.481 | 3.61 | 167 | 3.58 | 169 |
| 167 | 0 | 0 | 0 | 0.481 | 3.74 | 161 | 3.71 | 163 |
| 212 | 0 | 0 | 0 | 0.481 | 3.9 | 155 | 3.87 | 156 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 14.22 | 1500 | 14.22 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 13.79 | 178 | 13.76 | 178 |
| 30 | 0 | 0 | 0 | 0.481 | 13.92 | 176 | 13.89 | 177 |
| 40 | 0 | 0 | 0 | 0.481 | 13.96 | 176 | 13.93 | 176 |
| 50 | 0 | 0 | 0 | 0.481 | 14 | 175 | 13.98 | 175 |
| 60 | 0 | 0 | 0 | 0.481 | 14.05 | 175 | 14.02 | 175 |
| 70 | 0 | 0 | 0 | 0.481 | 14.09 | 174 | 14.06 | 174 |
| 80 | 0 | 0 | 0 | 0.481 | 14.13 | 174 | 14.11 | 174 |
| 90 | 0 | 0 | 0 | 0.481 | 14.17 | 173 | 14.15 | 173 |
| 100 | 0 | 0 | 0 | 0.481 | 14.22 | 173 | 14.19 | 173 |
| 110 | 0 | 0 | 0 | 0.481 | 14.26 | 172 | 14.23 | 172 |
| 120 | 0 | 0 | 0 | 0.481 | 14.29 | 172 | 14.26 | 172 |
| 130 | 0 | 0 | 0 | 0.481 | 14.33 | 171 | 14.3 | 172 |
| 167 | 0 | 0 | 0 | 0.481 | 14.47 | 170 | 14.44 | 170 |
| 212 | 0 | 0 | 0 | 0.481 | 14.64 | 168 | 14.61 | 168 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 32.88 | 1500 | 32.88 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 32.45 | 175 | 32.42 | 175 |
| 30 | 0 | 0 | 0 | 0.481 | 32.58 | 174 | 32.55 | 174 |
| 40 | 0 | 0 | 0 | 0.481 | 32.62 | 174 | 32.59 | 174 |
| 50 | 0 | 0 | 0 | 0.481 | 32.66 | 174 | 32.63 | 174 |
| 60 | 0 | 0 | 0 | 0.481 | 32.7 | 173 | 32.68 | 173 |
| 70 | 0 | 0 | 0 | 0.481 | 32.75 | 173 | 32.72 | 173 |
| 80 | 0 | 0 | 0 | 0.481 | 32.79 | 173 | 32.76 | 173 |
| 90 | 0 | 0 | 0 | 0.481 | 32.83 | 173 | 32.8 | 173 |
| 100 | 0 | 0 | 0 | 0.481 | 32.87 | 173 | 32.84 | 173 |
| 110 | 0 | 0 | 0 | 0.481 | 32.91 | 172 | 32.88 | 173 |
| 120 | 0 | 0 | 0 | 0.481 | 32.95 | 172 | 32.92 | 172 |
| 130 | 0 | 0 | 0 | 0.481 | 32.99 | 172 | 32.96 | 172 |
| 167 | 0 | 0 | 0 | 0.481 | 33.13 | 171 | 33.1 | 171 |
| 212 | 0 | 0 | 0 | 0.481 | 33.3 | 171 | 33.27 | 171 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 60.98 | 1500 | 60.98 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 60.56 | 174 | 60.52 | 174 |
| 30 | 0 | 0 | 0 | 0.481 | 60.68 | 173 | 60.65 | 173 |
| 40 | 0 | 0 | 0 | 0.481 | 60.72 | 173 | 60.70 | 173 |
| 50 | 0 | 0 | 0 | 0.481 | 60.77 | 173 | 60.74 | 173 |
| 60 | 0 | 0 | 0 | 0.481 | 60.81 | 173 | 60.78 | 173 |
| 70 | 0 | 0 | 0 | 0.481 | 60.85 | 173 | 60.83 | 173 |
| 80 | 0 | 0 | 0 | 0.481 | 60.89 | 173 | 60.87 | 173 |
| 90 | 0 | 0 | 0 | 0.481 | 60.93 | 173 | 60.91 | 173 |
| 100 | 0 | 0 | 0 | 0.481 | 60.98 | 173 | 60.95 | 173 |
| 110 | 0 | 0 | 0 | 0.481 | 61.02 | 172 | 60.98 | 173 |
| 120 | 0 | 0 | 0 | 0.481 | 61.05 | 172 | 61.02 | 172 |
| 130 | 0 | 0 | 0 | 0.481 | 61.09 | 172 | 61.06 | 172 |
| 167 | 0 | 0 | 0 | 0.481 | 61.23 | 172 | 61.20 | 172 |
| 212 | 0 | 0 | 0 | 0.481 | 61.41 | 172 | 61.37 | 172 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 101.72 | 1500 | 101.72 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 101.29 | 173 | 101.26 | 173 |
| 30 | 0 | 0 | 0 | 0.481 | 101.42 | 173 | 101.39 | 173 |
| 40 | 0 | 0 | 0 | 0.481 | 101.46 | 173 | 101.43 | 173 |
| 50 | 0 | 0 | 0 | 0.481 | 101.5 | 173 | 101.48 | 173 |
| 60 | 0 | 0 | 0 | 0.481 | 101.54 | 173 | 101.52 | 173 |
| 70 | 0 | 0 | 0 | 0.481 | 101.59 | 173 | 101.56 | 173 |
| 80 | 0 | 0 | 0 | 0.481 | 101.63 | 173 | 101.6 | 173 |
| 90 | 0 | 0 | 0 | 0.481 | 101.67 | 173 | 101.64 | 173 |
| 100 | 0 | 0 | 0 | 0.481 | 101.71 | 173 | 101.68 | 173 |
| 110 | 0 | 0 | 0 | 0.481 | 101.75 | 172 | 101.72 | 173 |
| 120 | 0 | 0 | 0 | 0.481 | 101.79 | 172 | 101.76 | 172 |
| 130 | 0 | 0 | 0 | 0.481 | 101.83 | 172 | 101.8 | 172 |
| 167 | 0 | 0 | 0 | 0.481 | 101.97 | 172 | 101.94 | 172 |
| 212 | 0 | 0 | 0 | 0.481 | 102.14 | 172 | 102.11 | 172 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 1-11 | 2-0 |
| 100 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 |
| 125 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 |
| 150 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 |
| 175 | 9-7 | 9-8 | 9-10 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 |
| 200 | 12-6 | 12-8 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 |
| 100 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 |
| 125 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 |
| 150 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 |
| 175 | 9-8 | 9-10 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 |
| 200 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.59

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 |
| 125 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 | 5-6 | 5-6 |
| 150 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 7-11 | 8-0 |
| 175 | 10-7 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 |
| 200 | 13-10 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 |
| 225 | 17-7 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 |
| 250 | 21-9 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 | 22-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-7 |
| 125 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 | 5-6 | 5-6 | 5-7 |
| 150 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 |
| 175 | 10-7 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 |
| 200 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 |
| 225 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 |
| 250 | 21-9 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 8-0 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-2 |
| 175 | 10-11 | 11-0 | 11-0 | 11-0 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 |
| 200 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 |
| 225 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-4 |
| 250 | 22-6 | 22-6 | 22-6 | 22-7 | 22-7 | 22-7 | 22-8 | 22-8 | 22-8 | 22-9 |
| 275 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-6 | 27-6 | 27-6 | 27-7 |
| 300 | 32-6 | 32-7 | 32-7 | 32-8 | 32-8 | 32-9 | 32-9 | 32-10 | 32-10 | 32-11 |
| 325 | 38-3 | 38-4 | 38-4 | 38-5 | 38-5 | 38-6 | 38-7 | 38-7 | 38-8 | 38-8 |
| 350 | 44-6 | 44-7 | 44-7 | 44-8 | 44-9 | 44-9 | 44-10 | 44-11 | 44-11 | 45-0 |
| 375 | 51-3 | 51-3 | 51-4 | 51-5 | 51-6 | 51-7 | 51-8 | 51-8 | 51-9 | 51-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 8-0 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 | 8-2 |
| 175 | 11-0 | 11-0 | 11-0 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 |
| 200 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 |
| 225 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-4 | 18-5 |
| 250 | 22-6 | 22-6 | 22-7 | 22-7 | 22-7 | 22-8 | 22-8 | 22-8 | 22-9 | 22-9 |
| 275 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-5 | 27-6 | 27-6 | 27-7 | 27-7 |
| 300 | 32-6 | 32-7 | 32-7 | 32-8 | 32-8 | 32-9 | 32-9 | 32-10 | 32-10 | 32-11 |
| 325 | 38-3 | 38-4 | 38-5 | 38-5 | 38-6 | 38-6 | 38-7 | 38-8 | 38-8 | 38-9 |
| 350 | 44-6 | 44-7 | 44-8 | 44-8 | 44-9 | 44-10 | 44-11 | 44-11 | 45-0 | 45-1 |
| 375 | 51-3 | 51-4 | 51-5 | 51-6 | 51-6 | 51-7 | 51-8 | 51-9 | 51-10 | 51-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 14-10 | 14-10 | 14-10 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 | 14-11 | 14-11 |
| 225 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 |
| 250 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-5 | 23-5 |
| 275 | 28-3 | 28-3 | 28-3 | 28-3 | 28-4 | 28-4 | 28-4 | 28-4 | 28-4 | 28-5 |
| 300 | 33-8 | 33-8 | 33-9 | 33-9 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 |
| 325 | 39-7 | 39-8 | 39-8 | 39-8 | 39-9 | 39-9 | 39-9 | 39-10 | 39-10 | 39-10 |
| 350 | 46-1 | 46-2 | 46-2 | 46-2 | 46-3 | 46-3 | 46-3 | 46-4 | 46-4 | 46-4 |
| 375 | 53-1 | 53-1 | 53-2 | 53-2 | 53-3 | 53-3 | 53-4 | 53-4 | 53-5 | 53-5 |
| 400 | 60-7 | 60-8 | 60-8 | 60-9 | 60-9 | 60-10 | 60-10 | 60-11 | 60-11 | 61-0 |
| 425 | 68-8 | 68-9 | 68-9 | 68-10 | 68-10 | 68-11 | 69-0 | 69-0 | 69-1 | 69-1 |
| 450 | 77-4 | 77-4 | 77-5 | 77-6 | 77-6 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 |
| 475 | 86-6 | 86-7 | 86-7 | 86-8 | 86-9 | 86-10 | 86-10 | 86-11 | 87-0 | 87-0 |
| 500 | 96-3 | 96-4 | 96-5 | 96-5 | 96-6 | 96-7 | 96-8 | 96-9 | 96-10 | 96-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 14-10 | 14-10 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 | 14-11 | 14-11 | 14-11 |
| 225 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 | 18-11 |
| 250 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-5 | 23-5 | 23-5 |
| 275 | 28-3 | 28-3 | 28-3 | 28-3 | 28-4 | 28-4 | 28-4 | 28-4 | 28-5 | 28-5 |
| 300 | 33-8 | 33-8 | 33-9 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-11 |
| 325 | 39-8 | 39-8 | 39-8 | 39-9 | 39-9 | 39-9 | 39-10 | 39-10 | 39-10 | 39-11 |
| 350 | 46-1 | 46-2 | 46-2 | 46-3 | 46-3 | 46-3 | 46-4 | 46-4 | 46-4 | 46-5 |
| 375 | 53-1 | 53-2 | 53-2 | 53-3 | 53-3 | 53-4 | 53-4 | 53-4 | 53-5 | 53-5 |
| 400 | 60-8 | 60-8 | 60-9 | 60-9 | 60-10 | 60-10 | 60-11 | 60-11 | 61-0 | 61-0 |
| 425 | 68-9 | 68-9 | 68-10 | 68-10 | 68-11 | 68-11 | 69-0 | 69-1 | 69-1 | 69-2 |
| 450 | 77-4 | 77-5 | 77-5 | 77-6 | 77-7 | 77-7 | 77-8 | 77-9 | 77-9 | 77-10 |
| 475 | 86-6 | 86-7 | 86-8 | 86-9 | 86-9 | 86-10 | 86-11 | 86-11 | 87-0 | 87-1 |
| 500 | 96-4 | 96-4 | 96-5 | 96-6 | 96-7 | 96-8 | 96-8 | 96-9 | 96-10 | 96-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 24-5 | 24-5 | 24-5 | 24-5 | 24-5 | 24-6 | 24-6 | 24-6 | 24-6 | 24-6 |
| 275 | 29-7 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 | 29-9 | 29-9 |
| 300 | 35-4 | 35-4 | 35-5 | 35-5 | 35-5 | 35-5 | 35-5 | 35-5 | 35-6 | 35-6 |
| 325 | 41-7 | 41-8 | 41-8 | 41-8 | 41-8 | 41-8 | 41-9 | 41-9 | 41-9 | 41-9 |
| 350 | 48-5 | 48-5 | 48-6 | 48-6 | 48-6 | 48-6 | 48-7 | 48-7 | 48-7 | 48-7 |
| 375 | 55-10 | 55-10 | 55-10 | 55-10 | 55-11 | 55-11 | 55-11 | 55-11 | 56-0 | 56-0 |
| 400 | 63-9 | 63-9 | 63-9 | 63-10 | 63-10 | 63-10 | 63-11 | 63-11 | 63-11 | 63-11 |
| 425 | 72-3 | 72-3 | 72-3 | 72-4 | 72-4 | 72-5 | 72-5 | 72-5 | 72-6 | 72-6 |
| 450 | 81-4 | 81-4 | 81-5 | 81-5 | 81-6 | 81-6 | 81-6 | 81-7 | 81-7 | 81-7 |
| 475 | 91-0 | 91-1 | 91-1 | 91-2 | 91-2 | 91-3 | 91-3 | 91-4 | 91-4 | 91-4 |
| 500 | 101-4 | 101-5 | 101-5 | 101-6 | 101-6 | 101-7 | 101-7 | 101-8 | 101-8 | 101-9 |
| 525 | 112-4 | 112-4 | 112-5 | 112-5 | 112-6 | 112-6 | 112-7 | 112-8 | 112-8 | 112-9 |
| 550 | 123-11 | 123-11 | 124-0 | 124-1 | 124-1 | 124-2 | 124-3 | 124-3 | 124-4 | 124-4 |
| 575 | 136-2 | 136-3 | 136-3 | 136-4 | 136-5 | 136-6 | 136-6 | 136-7 | 136-8 | 136-8 |
| 600 | 149-2 | 149-2 | 149-3 | 149-4 | 149-5 | 149-5 | 149-6 | 149-7 | 149-8 | 149-8 |
| 625 | 162-9 | 162-10 | 162-11 | 163-0 | 163-1 | 163-2 | 163-3 | 163-3 | 163-4 | 163-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 24-5 | 24-5 | 24-5 | 24-5 | 24-6 | 24-6 | 24-6 | 24-6 | 24-6 | 24-6 |
| 275 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 | 29-8 | 29-9 | 29-9 | 29-9 |
| 300 | 35-4 | 35-5 | 35-5 | 35-5 | 35-5 | 35-5 | 35-5 | 35-5 | 35-6 | 35-6 |
| 325 | 41-8 | 41-8 | 41-8 | 41-8 | 41-8 | 41-9 | 41-9 | 41-9 | 41-9 | 41-9 |
| 350 | 48-5 | 48-6 | 48-6 | 48-6 | 48-6 | 48-6 | 48-7 | 48-7 | 48-7 | 48-7 |
| 375 | 55-10 | 55-10 | 55-10 | 55-11 | 55-11 | 55-11 | 55-11 | 56-0 | 56-0 | 56-0 |
| 400 | 63-9 | 63-9 | 63-10 | 63-10 | 63-10 | 63-10 | 63-11 | 63-11 | 63-11 | 64-0 |
| 425 | 72-3 | 72-3 | 72-4 | 72-4 | 72-4 | 72-5 | 72-5 | 72-5 | 72-6 | 72-6 |
| 450 | 81-4 | 81-5 | 81-5 | 81-5 | 81-6 | 81-6 | 81-7 | 81-7 | 81-7 | 81-8 |
| 475 | 91-1 | 91-1 | 91-2 | 91-2 | 91-2 | 91-3 | 91-3 | 91-4 | 91-4 | 91-5 |
| 500 | 101-5 | 101-5 | 101-6 | 101-6 | 101-7 | 101-7 | 101-8 | 101-8 | 101-9 | 101-9 |
| 525 | 112-4 | 112-5 | 112-5 | 112-6 | 112-6 | 112-7 | 112-7 | 112-8 | 112-8 | 112-9 |
| 550 | 123-11 | 124-0 | 124-1 | 124-1 | 124-2 | 124-2 | 124-3 | 124-4 | 124-4 | 124-5 |
| 575 | 136-3 | 136-3 | 136-4 | 136-5 | 136-5 | 136-6 | 136-7 | 136-7 | 136-8 | 136-9 |
| 600 | 149-2 | 149-3 | 149-4 | 149-4 | 149-5 | 149-6 | 149-7 | 149-7 | 149-8 | 149-9 |
| 625 | 162-10 | 162-11 | 163-0 | 163-1 | 163-1 | 163-2 | 163-3 | 163-4 | 163-5 | 163-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 2.62 | 2000 | 2.62 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 1.76 | 341 | 1.7 | 355 |
| 30 | 0 | 0 | 0 | 0.481 | 1.98 | 304 | 1.92 | 314 |
| 40 | 0 | 0 | 0 | 0.481 | 2.05 | 294 | 1.99 | 303 |
| 50 | 0 | 0 | 0 | 0.481 | 2.11 | 285 | 2.06 | 293 |
| 60 | 0 | 0 | 0 | 0.481 | 2.18 | 277 | 2.12 | 283 |
| 70 | 0 | 0 | 0 | 0.481 | 2.24 | 269 | 2.19 | 275 |
| 80 | 0 | 0 | 0 | 0.481 | 2.3 | 262 | 2.25 | 267 |
| 90 | 0 | 0 | 0 | 0.481 | 2.36 | 255 | 2.32 | 260 |
| 100 | 0 | 0 | 0 | 0.481 | 2.42 | 249 | 2.37 | 254 |
| 110 | 0 | 0 | 0 | 0.481 | 2.48 | 243 | 2.43 | 248 |
| 120 | 0 | 0 | 0 | 0.481 | 2.53 | 239 | 2.48 | 243 |
| 130 | 0 | 0 | 0 | 0.481 | 2.58 | 234 | 2.53 | 238 |
| 167 | 0 | 0 | 0 | 0.481 | 2.76 | 219 | 2.71 | 222 |
| 212 | 0 | 0 | 0 | 0.481 | 2.96 | 204 | 2.92 | 207 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 10.57 | 2000 | 10.57 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 9.79 | 248 | 9.73 | 250 |
| 30 | 0 | 0 | 0 | 0.481 | 9.97 | 244 | 9.91 | 245 |
| 40 | 0 | 0 | 0 | 0.481 | 10.03 | 242 | 9.97 | 244 |
| 50 | 0 | 0 | 0 | 0.481 | 10.08 | 241 | 10.03 | 242 |
| 60 | 0 | 0 | 0 | 0.481 | 10.14 | 240 | 10.09 | 241 |
| 70 | 0 | 0 | 0 | 0.481 | 10.2 | 238 | 10.15 | 239 |
| 80 | 0 | 0 | 0 | 0.481 | 10.26 | 237 | 10.21 | 238 |
| 90 | 0 | 0 | 0 | 0.481 | 10.32 | 236 | 10.27 | 237 |
| 100 | 0 | 0 | 0 | 0.481 | 10.37 | 234 | 10.32 | 235 |
| 110 | 0 | 0 | 0 | 0.481 | 10.43 | 233 | 10.38 | 234 |
| 120 | 0 | 0 | 0 | 0.481 | 10.48 | 232 | 10.43 | 233 |
| 130 | 0 | 0 | 0 | 0.481 | 10.53 | 231 | 10.48 | 232 |
| 167 | 0 | 0 | 0 | 0.481 | 10.72 | 227 | 10.67 | 228 |
| 212 | 0 | 0 | 0 | 0.481 | 10.94 | 222 | 10.89 | 223 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 24.13 | 2000 | 24.13 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 23.36 | 237 | 23.31 | 238 |
| 30 | 0 | 0 | 0 | 0.481 | 23.54 | 236 | 23.48 | 236 |
| 40 | 0 | 0 | 0 | 0.481 | 23.59 | 235 | 23.54 | 236 |
| 50 | 0 | 0 | 0 | 0.481 | 23.65 | 235 | 23.6 | 235 |
| 60 | 0 | 0 | 0 | 0.481 | 23.71 | 234 | 23.66 | 234 |
| 70 | 0 | 0 | 0 | 0.481 | 23.76 | 233 | 23.72 | 234 |
| 80 | 0 | 0 | 0 | 0.481 | 23.82 | 233 | 23.78 | 233 |
| 90 | 0 | 0 | 0 | 0.481 | 23.88 | 232 | 23.83 | 233 |
| 100 | 0 | 0 | 0 | 0.481 | 23.94 | 232 | 23.89 | 232 |
| 110 | 0 | 0 | 0 | 0.481 | 23.99 | 231 | 23.94 | 232 |
| 120 | 0 | 0 | 0 | 0.481 | 24.04 | 231 | 23.99 | 231 |
| 130 | 0 | 0 | 0 | 0.481 | 24.09 | 230 | 24.04 | 231 |
| 167 | 0 | 0 | 0 | 0.481 | 24.28 | 229 | 24.23 | 229 |
| 212 | 0 | 0 | 0 | 0.481 | 24.51 | 227 | 24.46 | 227 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 43.84 | 2000 | 43.84 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 43.07 | 234 | 43.02 | 234 |
| 30 | 0 | 0 | 0 | 0.481 | 43.24 | 233 | 43.19 | 233 |
| 40 | 0 | 0 | 0 | 0.481 | 43.3 | 233 | 43.25 | 233 |
| 50 | 0 | 0 | 0 | 0.481 | 43.36 | 232 | 43.31 | 233 |
| 60 | 0 | 0 | 0 | 0.481 | 43.41 | 232 | 43.36 | 232 |
| 70 | 0 | 0 | 0 | 0.481 | 43.47 | 232 | 43.42 | 232 |
| 80 | 0 | 0 | 0 | 0.481 | 43.53 | 232 | 43.48 | 232 |
| 90 | 0 | 0 | 0 | 0.481 | 43.58 | 231 | 43.54 | 231 |
| 100 | 0 | 0 | 0 | 0.481 | 43.64 | 231 | 43.59 | 231 |
| 110 | 0 | 0 | 0 | 0.481 | 43.69 | 231 | 43.64 | 231 |
| 120 | 0 | 0 | 0 | 0.481 | 43.74 | 230 | 43.69 | 231 |
| 130 | 0 | 0 | 0 | 0.481 | 43.79 | 230 | 43.74 | 230 |
| 167 | 0 | 0 | 0 | 0.481 | 43.98 | 229 | 43.93 | 230 |
| 212 | 0 | 0 | 0 | 0.481 | 44.21 | 228 | 44.16 | 228 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.182 | 70.59 | 2000 | 70.59 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 69.83 | 232 | 69.77 | 232 |
| 30 | 0 | 0 | 0 | 0.481 | 69.99 | 232 | 69.94 | 232 |
| 40 | 0 | 0 | 0 | 0.481 | 70.05 | 232 | 70 | 232 |
| 50 | 0 | 0 | 0 | 0.481 | 70.11 | 231 | 70.06 | 232 |
| 60 | 0 | 0 | 0 | 0.481 | 70.16 | 231 | 70.12 | 231 |
| 70 | 0 | 0 | 0 | 0.481 | 70.22 | 231 | 70.17 | 231 |
| 80 | 0 | 0 | 0 | 0.481 | 70.28 | 231 | 70.23 | 231 |
| 90 | 0 | 0 | 0 | 0.481 | 70.33 | 231 | 70.29 | 231 |
| 100 | 0 | 0 | 0 | 0.481 | 70.39 | 231 | 70.34 | 231 |
| 110 | 0 | 0 | 0 | 0.481 | 70.44 | 230 | 70.39 | 231 |
| 120 | 0 | 0 | 0 | 0.481 | 70.49 | 230 | 70.44 | 230 |
| 130 | 0 | 0 | 0 | 0.481 | 70.54 | 230 | 70.49 | 230 |
| 167 | 0 | 0 | 0 | 0.481 | 70.73 | 230 | 70.68 | 230 |
| 212 | 0 | 0 | 0 | 0.481 | 70.96 | 229 | 70.91 | 229 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 100 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 |
| 125 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 |
| 150 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 |
| 175 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 |
| 200 | 7-5 | 7-8 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 |
| 100 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 |
| 125 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 150 | 4-4 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-7 |
| 175 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 |
| 200 | 7-8 | 7-11 | 8-2 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 9-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.67

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 |
| 125 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 |
| 150 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 |
| 175 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 200 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 |
| 225 | 12-6 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 |
| 250 | 15-5 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 |
| 125 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 |
| 150 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 |
| 175 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 |
| 200 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 |
| 225 | 12-7 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-2 |
| 250 | 15-6 | 15-7 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.68

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 |
| 175 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-1 |
| 200 | 10-4 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 |
| 225 | 13-2 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 |
| 250 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 |
| 275 | 19-8 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-1 | 20-1 |
| 300 | 23-5 | 23-6 | 23-6 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 | 23-11 | 23-11 |
| 325 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 |
| 350 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-5 | 32-6 | 32-7 | 32-8 |
| 375 | 36-9 | 36-10 | 36-11 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 | 37-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 6-0 |
| 175 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 |
| 200 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 |
| 225 | 13-2 | 13-2 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 |
| 250 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 |
| 275 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 | 20-2 |
| 300 | 23-6 | 23-6 | 23-7 | 23-8 | 23-8 | 23-9 | 23-10 | 23-11 | 23-11 | 24-0 |
| 325 | 27-7 | 27-8 | 27-9 | 27-10 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-2 |
| 350 | 32-1 | 32-2 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 |
| 375 | 36-10 | 36-11 | 37-0 | 37-1 | 37-3 | 37-4 | 37-5 | 37-6 | 37-7 | 37-8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 10-8 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 |
| 225 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 |
| 250 | 16-8 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 | 16-11 |
| 275 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-6 |
| 300 | 24-1 | 24-2 | 24-2 | 24-2 | 24-3 | 24-3 | 24-4 | 24-4 | 24-4 | 24-5 |
| 325 | 28-4 | 28-4 | 28-5 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 | 28-8 | 28-8 |
| 350 | 32-11 | 32-11 | 33-0 | 33-0 | 33-1 | 33-2 | 33-2 | 33-3 | 33-3 | 33-4 |
| 375 | 37-10 | 37-11 | 37-11 | 38-0 | 38-1 | 38-1 | 38-2 | 38-2 | 38-3 | 38-3 |
| 400 | 43-2 | 43-2 | 43-3 | 43-4 | 43-4 | 43-5 | 43-6 | 43-6 | 43-7 | 43-8 |
| 425 | 48-9 | 48-10 | 48-11 | 49-0 | 49-1 | 49-1 | 49-2 | 49-3 | 49-4 | 49-4 |
| 450 | 54-10 | 54-11 | 54-11 | 55-0 | 55-1 | 55-2 | 55-3 | 55-4 | 55-5 | 55-6 |
| 475 | 61-2 | 61-3 | 61-4 | 61-5 | 61-6 | 61-7 | 61-8 | 61-9 | 61-10 | 61-11 |
| 500 | 68-0 | 68-1 | 68-2 | 68-3 | 68-4 | 68-5 | 68-6 | 68-7 | 68-8 | 68-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-10 |
| 225 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-8 |
| 250 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 | 16-11 | 16-11 |
| 275 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-6 | 20-6 |
| 300 | 24-2 | 24-2 | 24-2 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 | 24-5 | 24-5 |
| 325 | 28-4 | 28-5 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 | 28-7 | 28-8 | 28-8 |
| 350 | 32-11 | 33-0 | 33-0 | 33-1 | 33-1 | 33-2 | 33-2 | 33-3 | 33-3 | 33-4 |
| 375 | 37-11 | 37-11 | 38-0 | 38-0 | 38-1 | 38-2 | 38-2 | 38-3 | 38-3 | 38-4 |
| 400 | 43-2 | 43-3 | 43-4 | 43-4 | 43-5 | 43-6 | 43-6 | 43-7 | 43-8 | 43-8 |
| 425 | 48-10 | 48-11 | 49-0 | 49-0 | 49-1 | 49-2 | 49-3 | 49-4 | 49-4 | 49-5 |
| 450 | 54-11 | 54-11 | 55-0 | 55-1 | 55-2 | 55-3 | 55-4 | 55-5 | 55-5 | 55-6 |
| 475 | 61-3 | 61-4 | 61-5 | 61-6 | 61-7 | 61-8 | 61-9 | 61-10 | 61-11 | 62-0 |
| 500 | 68-1 | 68-2 | 68-3 | 68-4 | 68-5 | 68-6 | 68-7 | 68-8 | 68-9 | 68-10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 17-2 | 17-2 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 |
| 275 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 20-11 |
| 300 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 | 24-11 | 24-11 |
| 325 | 29-1 | 29-2 | 29-2 | 29-2 | 29-2 | 29-3 | 29-3 | 29-3 | 29-4 | 29-4 |
| 350 | 33-10 | 33-10 | 33-10 | 33-11 | 33-11 | 33-11 | 34-0 | 34-0 | 34-0 | 34-1 |
| 375 | 38-11 | 38-11 | 38-11 | 39-0 | 39-0 | 39-1 | 39-1 | 39-1 | 39-2 | 39-2 |
| 400 | 44-4 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-7 | 44-7 | 44-7 | 44-8 |
| 425 | 50-2 | 50-2 | 50-3 | 50-3 | 50-4 | 50-4 | 50-5 | 50-5 | 50-6 | 50-6 |
| 450 | 56-4 | 56-5 | 56-5 | 56-6 | 56-6 | 56-7 | 56-7 | 56-8 | 56-8 | 56-9 |
| 475 | 62-11 | 63-0 | 63-0 | 63-1 | 63-2 | 63-2 | 63-3 | 63-3 | 63-4 | 63-4 |
| 500 | 69-11 | 69-11 | 70-0 | 70-1 | 70-1 | 70-2 | 70-3 | 70-3 | 70-4 | 70-5 |
| 525 | 77-3 | 77-4 | 77-4 | 77-5 | 77-6 | 77-7 | 77-8 | 77-8 | 77-9 | 77-10 |
| 550 | 85-0 | 85-1 | 85-2 | 85-3 | 85-3 | 85-4 | 85-5 | 85-6 | 85-7 | 85-7 |
| 575 | 93-2 | 93-3 | 93-4 | 93-5 | 93-6 | 93-7 | 93-8 | 93-8 | 93-9 | 93-10 |
| 600 | 101-9 | 101-10 | 101-11 | 102-0 | 102-1 | 102-2 | 102-3 | 102-4 | 102-5 | 102-6 |
| 625 | 110-9 | 110-10 | 110-11 | 111-0 | 111-1 | 111-2 | 111-3 | 111-5 | 111-6 | 111-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 17-2 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 |
| 275 | 20-10 | 20-10 | 20-10 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 20-11 | 20-11 |
| 300 | 24-9 | 24-10 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 |
| 325 | 29-2 | 29-2 | 29-2 | 29-2 | 29-3 | 29-3 | 29-3 | 29-3 | 29-4 | 29-4 |
| 350 | 33-10 | 33-10 | 33-11 | 33-11 | 33-11 | 34-0 | 34-0 | 34-0 | 34-1 | 34-1 |
| 375 | 38-11 | 38-11 | 39-0 | 39-0 | 39-0 | 39-1 | 39-1 | 39-2 | 39-2 | 39-2 |
| 400 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 | 44-8 | 44-8 |
| 425 | 50-2 | 50-3 | 50-3 | 50-4 | 50-4 | 50-5 | 50-5 | 50-6 | 50-6 | 50-6 |
| 450 | 56-5 | 56-5 | 56-6 | 56-6 | 56-7 | 56-7 | 56-8 | 56-8 | 56-9 | 56-9 |
| 475 | 63-0 | 63-0 | 63-1 | 63-1 | 63-2 | 63-3 | 63-3 | 63-4 | 63-4 | 63-5 |
| 500 | 69-11 | 70-0 | 70-1 | 70-1 | 70-2 | 70-3 | 70-3 | 70-4 | 70-5 | 70-5 |
| 525 | 77-4 | 77-4 | 77-5 | 77-6 | 77-7 | 77-7 | 77-8 | 77-9 | 77-10 | 77-10 |
| 550 | 85-1 | 85-2 | 85-2 | 85-3 | 85-4 | 85-5 | 85-6 | 85-7 | 85-7 | 85-8 |
| 575 | 93-3 | 93-4 | 93-5 | 93-6 | 93-6 | 93-7 | 93-8 | 93-9 | 93-10 | 93-11 |
| 600 | 101-10 | 101-11 | 102-0 | 102-1 | 102-2 | 102-3 | 102-4 | 102-5 | 102-6 | 102-7 |
| 625 | 110-10 | 110-11 | 111-0 | 111-1 | 111-2 | 111-3 | 111-4 | 111-5 | 111-6 | 111-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 50 | 0 | 10.8 | 0 | 1.001 | 1.25 | 1000 | 1.25 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 0.67 | 897 | 0.67 | 903 |
| 30 | 0 | 0 | 0 | 0.481 | 0.74 | 811 | 0.73 | 819 |
| 40 | 0 | 0 | 0 | 0.481 | 0.82 | 734 | 0.81 | 743 |
| 50 | 0 | 0 | 0 | 0.481 | 0.9 | 666 | 0.89 | 675 |
| 60 | 0 | 0 | 0 | 0.481 | 0.99 | 608 | 0.98 | 616 |
| 70 | 0 | 0 | 0 | 0.481 | 1.08 | 558 | 1.06 | 565 |
| 80 | 0 | 0 | 0 | 0.481 | 1.17 | 516 | 1.15 | 522 |
| 90 | 0 | 0 | 0 | 0.481 | 1.25 | 479 | 1.24 | 484 |
| 100 | 0 | 0 | 0 | 0.481 | 1.34 | 448 | 1.33 | 452 |
| 110 | 0 | 0 | 0 | 0.481 | 1.43 | 422 | 1.42 | 425 |
| 120 | 0 | 0 | 0 | 0.481 | 1.51 | 399 | 1.49 | 403 |
| 130 | 0 | 0 | 0 | 0.481 | 1.59 | 378 | 1.57 | 384 |
| 167 | 0 | 0 | 0 | 0.481 | 1.84 | 327 | 1.82 | 331 |
| 212 | 0 | 0 | 0 | 0.481 | 2.12 | 284 | 2.1 | 287 |

* Design Condition

Span = 200 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 50 | 0 | 10.8 | 0 | 1.001 | 5.02 | 1000 | 5.02 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 4.22 | 572 | 4.19 | 575 |
| 30 | 0 | 0 | 0 | 0.481 | 4.34 | 556 | 4.31 | 559 |
| 40 | 0 | 0 | 0 | 0.481 | 4.46 | 541 | 4.43 | 544 |
| 50 | 0 | 0 | 0 | 0.481 | 4.57 | 527 | 4.55 | 530 |
| 60 | 0 | 0 | 0 | 0.481 | 4.69 | 514 | 4.67 | 517 |
| 70 | 0 | 0 | 0 | 0.481 | 4.8 | 502 | 4.78 | 504 |
| 80 | 0 | 0 | 0 | 0.481 | 4.91 | 491 | 4.9 | 492 |
| 90 | 0 | 0 | 0 | 0.481 | 5.02 | 480 | 5.01 | 482 |
| 100 | 0 | 0 | 0 | 0.481 | 5.13 | 470 | 5.12 | 471 |
| 110 | 0 | 0 | 0 | 0.481 | 5.24 | 461 | 5.23 | 462 |
| 120 | 0 | 0 | 0 | 0.481 | 5.34 | 452 | 5.33 | 452 |
| 130 | 0 | 0 | 0 | 0.481 | 5.44 | 443 | 5.42 | 445 |
| 167 | 0 | 0 | 0 | 0.481 | 5.78 | 417 | 5.76 | 419 |
| 212 | 0 | 0 | 0 | 0.481 | 6.17 | 391 | 6.14 | 393 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 11.33 | 1000 | 11.33 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 10.51 | 517 | 10.48 | 519 |
| 30 | 0 | 0 | 0 | 0.481 | 10.63 | 511 | 10.6 | 513 |
| 40 | 0 | 0 | 0 | 0.481 | 10.75 | 506 | 10.72 | 507 |
| 50 | 0 | 0 | 0 | 0.481 | 10.87 | 500 | 10.85 | 502 |
| 60 | 0 | 0 | 0 | 0.481 | 10.99 | 495 | 10.96 | 496 |
| 70 | 0 | 0 | 0 | 0.481 | 11.1 | 490 | 11.08 | 491 |
| 80 | 0 | 0 | 0 | 0.481 | 11.22 | 485 | 11.2 | 486 |
| 90 | 0 | 0 | 0 | 0.481 | 11.33 | 480 | 11.32 | 481 |
| 100 | 0 | 0 | 0 | 0.481 | 11.45 | 475 | 11.43 | 476 |
| 110 | 0 | 0 | 0 | 0.481 | 11.56 | 471 | 11.55 | 471 |
| 120 | 0 | 0 | 0 | 0.481 | 11.67 | 466 | 11.66 | 467 |
| 130 | 0 | 0 | 0 | 0.481 | 11.78 | 462 | 11.76 | 463 |
| 167 | 0 | 0 | 0 | 0.481 | 12.16 | 448 | 12.13 | 449 |
| 212 | 0 | 0 | 0 | 0.481 | 12.59 | 433 | 12.56 | 434 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 20.23 | 1000 | 20.23 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 19.41 | 500 | 19.38 | 501 |
| 30 | 0 | 0 | 0 | 0.481 | 19.53 | 497 | 19.5 | 498 |
| 40 | 0 | 0 | 0 | 0.481 | 19.65 | 494 | 19.62 | 495 |
| 50 | 0 | 0 | 0 | 0.481 | 19.77 | 491 | 19.74 | 492 |
| 60 | 0 | 0 | 0 | 0.481 | 19.89 | 488 | 19.86 | 489 |
| 70 | 0 | 0 | 0 | 0.481 | 20.01 | 486 | 19.98 | 486 |
| 80 | 0 | 0 | 0 | 0.481 | 20.12 | 483 | 20.1 | 483 |
| 90 | 0 | 0 | 0 | 0.481 | 20.24 | 480 | 20.22 | 481 |
| 100 | 0 | 0 | 0 | 0.481 | 20.35 | 478 | 20.34 | 478 |
| 110 | 0 | 0 | 0 | 0.481 | 20.47 | 475 | 20.46 | 475 |
| 120 | 0 | 0 | 0 | 0.481 | 20.58 | 472 | 20.57 | 473 |
| 130 | 0 | 0 | 0 | 0.481 | 20.69 | 470 | 20.68 | 470 |
| 167 | 0 | 0 | 0 | 0.481 | 21.08 | 461 | 21.06 | 462 |
| 212 | 0 | 0 | 0 | 0.481 | 21.54 | 452 | 21.51 | 452 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 31.8 | 1000 | 31.8 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 30.98 | 493 | 30.95 | 493 |
| 30 | 0 | 0 | 0 | 0.481 | 31.1 | 491 | 31.07 | 491 |
| 40 | 0 | 0 | 0 | 0.481 | 31.22 | 489 | 31.19 | 489 |
| 50 | 0 | 0 | 0 | 0.481 | 31.34 | 487 | 31.31 | 488 |
| 60 | 0 | 0 | 0 | 0.481 | 31.46 | 485 | 31.43 | 486 |
| 70 | 0 | 0 | 0 | 0.481 | 31.57 | 484 | 31.55 | 484 |
| 80 | 0 | 0 | 0 | 0.481 | 31.69 | 482 | 31.67 | 482 |
| 90 | 0 | 0 | 0 | 0.481 | 31.81 | 480 | 31.79 | 480 |
| 100 | 0 | 0 | 0 | 0.481 | 31.92 | 479 | 31.91 | 479 |
| 110 | 0 | 0 | 0 | 0.481 | 32.04 | 477 | 32.03 | 477 |
| 120 | 0 | 0 | 0 | 0.481 | 32.15 | 475 | 32.14 | 475 |
| 130 | 0 | 0 | 0 | 0.481 | 32.27 | 474 | 32.25 | 474 |
| 167 | 0 | 0 | 0 | 0.481 | 32.67 | 468 | 32.64 | 468 |
| 212 | 0 | 0 | 0 | 0.481 | 33.13 | 462 | 33.1 | 462 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 100 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 125 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 |
| 150 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-0 | 3-2 |
| 175 | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 |
| 200 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 | 4-7 | 5-0 | 5-4 | 5-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 100 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 125 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 |
| 150 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-0 | 3-3 |
| 175 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 |
| 200 | 2-8 | 3-0 | 3-3 | 3-7 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.75

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 |
| 125 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 |
| 150 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 |
| 175 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 200 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 |
| 225 | 5-4 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 |
| 250 | 6-7 | 6-9 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 |
| 125 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 |
| 150 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 |
| 175 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 200 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 |
| 225 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 |
| 250 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-7 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 |
| 175 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 200 | 4-8 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 |
| 225 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 |
| 250 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 275 | 8-10 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 |
| 300 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 |
| 325 | 12-4 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 |
| 350 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 |
| 375 | 16-5 | 16-7 | 16-9 | 17-0 | 17-2 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 |
| 175 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 200 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 |
| 225 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 |
| 250 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 275 | 8-10 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-9 |
| 300 | 10-6 | 10-8 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 |
| 325 | 12-4 | 12-6 | 12-7 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 |
| 350 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 |
| 375 | 16-5 | 16-8 | 16-10 | 17-0 | 17-2 | 17-4 | 17-7 | 17-9 | 17-11 | 18-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.77

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 |
| 225 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 |
| 250 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 |
| 275 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 |
| 300 | 10-11 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-5 | 11-6 |
| 325 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 |
| 350 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-5 | 15-6 | 15-7 | 15-8 |
| 375 | 17-0 | 17-2 | 17-3 | 17-4 | 17-5 | 17-7 | 17-8 | 17-9 | 17-10 | 18-0 |
| 400 | 19-5 | 19-6 | 19-7 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-5 |
| 425 | 21-11 | 22-0 | 22-2 | 22-4 | 22-5 | 22-7 | 22-8 | 22-10 | 23-0 | 23-1 |
| 450 | 24-7 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 | 25-7 | 25-9 | 25-11 |
| 475 | 27-4 | 27-6 | 27-9 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 |
| 500 | 30-4 | 30-6 | 30-9 | 30-11 | 31-1 | 31-3 | 31-6 | 31-8 | 31-10 | 32-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 |
| 225 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 |
| 250 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 |
| 275 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 |
| 300 | 10-11 | 11-0 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 |
| 325 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 |
| 350 | 14-10 | 14-11 | 15-0 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 |
| 375 | 17-1 | 17-2 | 17-3 | 17-4 | 17-6 | 17-7 | 17-8 | 17-9 | 17-11 | 18-0 |
| 400 | 19-5 | 19-6 | 19-8 | 19-9 | 19-11 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 |
| 425 | 21-11 | 22-1 | 22-2 | 22-4 | 22-6 | 22-7 | 22-9 | 22-10 | 23-0 | 23-1 |
| 450 | 24-7 | 24-9 | 24-11 | 25-1 | 25-2 | 25-4 | 25-6 | 25-8 | 25-9 | 25-11 |
| 475 | 27-5 | 27-7 | 27-9 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 |
| 500 | 30-5 | 30-7 | 30-9 | 30-11 | 31-2 | 31-4 | 31-6 | 31-8 | 31-10 | 32-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 |
| 275 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 |
| 300 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 |
| 325 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 |
| 350 | 15-2 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 | 15-6 | 15-7 | 15-8 |
| 375 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 |
| 400 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-5 |
| 425 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 |
| 450 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-8 | 25-9 | 25-10 | 25-11 |
| 475 | 27-11 | 28-0 | 28-2 | 28-3 | 28-4 | 28-6 | 28-7 | 28-8 | 28-9 | 28-11 |
| 500 | 30-11 | 31-1 | 31-2 | 31-4 | 31-5 | 31-7 | 31-8 | 31-9 | 31-11 | 32-0 |
| 525 | 34-2 | 34-3 | 34-5 | 34-6 | 34-8 | 34-10 | 34-11 | 35-1 | 35-2 | 35-4 |
| 550 | 37-6 | 37-8 | 37-9 | 37-11 | 38-1 | 38-3 | 38-4 | 38-6 | 38-8 | 38-10 |
| 575 | 41-0 | 41-2 | 41-4 | 41-6 | 41-8 | 41-10 | 41-11 | 42-1 | 42-3 | 42-5 |
| 600 | 44-8 | 44-10 | 45-0 | 45-2 | 45-4 | 45-6 | 45-9 | 45-11 | 46-1 | 46-3 |
| 625 | 48-6 | 48-8 | 48-11 | 49-1 | 49-3 | 49-5 | 49-8 | 49-10 | 50-0 | 50-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 |
| 275 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 |
| 300 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 |
| 325 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 |
| 350 | 15-2 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 |
| 375 | 17-5 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 | 18-0 |
| 400 | 19-10 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 |
| 425 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 |
| 450 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 |
| 475 | 27-11 | 28-1 | 28-2 | 28-3 | 28-4 | 28-6 | 28-7 | 28-8 | 28-10 | 28-11 |
| 500 | 31-0 | 31-1 | 31-3 | 31-4 | 31-5 | 31-7 | 31-8 | 31-10 | 31-11 | 32-0 |
| 525 | 34-2 | 34-4 | 34-5 | 34-7 | 34-8 | 34-10 | 34-11 | 35-1 | 35-3 | 35-4 |
| 550 | 37-6 | 37-8 | 37-10 | 38-0 | 38-1 | 38-3 | 38-5 | 38-6 | 38-8 | 38-10 |
| 575 | 41-0 | 41-2 | 41-4 | 41-6 | 41-8 | 41-10 | 42-0 | 42-2 | 42-3 | 42-5 |
| 600 | 44-9 | 44-11 | 45-1 | 45-3 | 45-5 | 45-7 | 45-9 | 45-11 | 46-1 | 46-3 |
| 625 | 48-7 | 48-9 | 48-11 | 49-1 | 49-4 | 49-6 | 49-8 | 49-10 | 50-0 | 50-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 0.83 | 1500 | 0.83 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 0.37 | 1634 | 0.37 | 1634 |
| 30 | 0 | 0 | 0 | 0.481 | 0.4 | 1520 | 0.4 | 1520 |
| 40 | 0 | 0 | 0 | 0.481 | 0.43 | 1404 | 0.43 | 1408 |
| 50 | 0 | 0 | 0 | 0.481 | 0.47 | 1288 | 0.46 | 1298 |
| 60 | 0 | 0 | 0 | 0.481 | 0.51 | 1176 | 0.51 | 1190 |
| 70 | 0 | 0 | 0 | 0.481 | 0.56 | 1070 | 0.55 | 1087 |
| 80 | 0 | 0 | 0 | 0.481 | 0.62 | 970 | 0.61 | 988 |
| 90 | 0 | 0 | 0 | 0.481 | 0.69 | 877 | 0.67 | 895 |
| 100 | 0 | 0 | 0 | 0.481 | 0.76 | 793 | 0.74 | 810 |
| 110 | 0 | 0 | 0 | 0.481 | 0.84 | 718 | 0.82 | 734 |
| 120 | 0 | 0 | 0 | 0.481 | 0.92 | 652 | 0.9 | 666 |
| 130 | 0 | 0 | 0 | 0.481 | 1.01 | 596 | 0.99 | 608 |
| 167 | 0 | 0 | 0 | 0.481 | 1.32 | 457 | 1.28 | 471 |
| 212 | 0 | 0 | 0 | 0.481 | 1.65 | 365 | 1.6 | 375 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 3.34 | 1500 | 3.34 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 2.1 | 1145 | 2.08 | 1156 |
| 30 | 0 | 0 | 0 | 0.481 | 2.23 | 1078 | 2.21 | 1090 |
| 40 | 0 | 0 | 0 | 0.481 | 2.37 | 1016 | 2.34 | 1028 |
| 50 | 0 | 0 | 0 | 0.481 | 2.51 | 960 | 2.48 | 972 |
| 60 | 0 | 0 | 0 | 0.481 | 2.65 | 909 | 2.61 | 921 |
| 70 | 0 | 0 | 0 | 0.481 | 2.79 | 863 | 2.75 | 874 |
| 80 | 0 | 0 | 0 | 0.481 | 2.93 | 822 | 2.9 | 831 |
| 90 | 0 | 0 | 0 | 0.481 | 3.07 | 784 | 3.04 | 793 |
| 100 | 0 | 0 | 0 | 0.481 | 3.21 | 750 | 3.18 | 758 |
| 110 | 0 | 0 | 0 | 0.481 | 3.35 | 719 | 3.32 | 726 |
| 120 | 0 | 0 | 0 | 0.481 | 3.48 | 691 | 3.45 | 697 |
| 130 | 0 | 0 | 0 | 0.481 | 3.62 | 666 | 3.59 | 671 |
| 167 | 0 | 0 | 0 | 0.481 | 4.09 | 590 | 4.04 | 597 |
| 212 | 0 | 0 | 0 | 0.481 | 4.57 | 527 | 4.52 | 533 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 7.53 | 1500 | 7.53 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 6.04 | 898 | 5.99 | 905 |
| 30 | 0 | 0 | 0 | 0.481 | 6.21 | 873 | 6.16 | 879 |
| 40 | 0 | 0 | 0 | 0.481 | 6.39 | 849 | 6.34 | 855 |
| 50 | 0 | 0 | 0 | 0.481 | 6.56 | 827 | 6.51 | 833 |
| 60 | 0 | 0 | 0 | 0.481 | 6.73 | 806 | 6.68 | 812 |
| 70 | 0 | 0 | 0 | 0.481 | 6.89 | 787 | 6.85 | 792 |
| 80 | 0 | 0 | 0 | 0.481 | 7.06 | 769 | 7.01 | 773 |
| 90 | 0 | 0 | 0 | 0.481 | 7.22 | 751 | 7.18 | 756 |
| 100 | 0 | 0 | 0 | 0.481 | 7.38 | 735 | 7.34 | 739 |
| 110 | 0 | 0 | 0 | 0.481 | 7.54 | 720 | 7.5 | 723 |
| 120 | 0 | 0 | 0 | 0.481 | 7.69 | 705 | 7.66 | 708 |
| 130 | 0 | 0 | 0 | 0.481 | 7.85 | 692 | 7.82 | 694 |
| 167 | 0 | 0 | 0 | 0.481 | 8.4 | 647 | 8.34 | 651 |
| 212 | 0 | 0 | 0 | 0.481 | 8.97 | 605 | 8.92 | 609 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 13.41 | 1500 | 13.41 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 11.86 | 814 | 11.81 | 818 |
| 30 | 0 | 0 | 0 | 0.481 | 12.04 | 802 | 11.99 | 805 |
| 40 | 0 | 0 | 0 | 0.481 | 12.22 | 790 | 12.17 | 794 |
| 50 | 0 | 0 | 0 | 0.481 | 12.4 | 779 | 12.35 | 782 |
| 60 | 0 | 0 | 0 | 0.481 | 12.57 | 768 | 12.52 | 771 |
| 70 | 0 | 0 | 0 | 0.481 | 12.75 | 758 | 12.7 | 761 |
| 80 | 0 | 0 | 0 | 0.481 | 12.92 | 748 | 12.87 | 751 |
| 90 | 0 | 0 | 0 | 0.481 | 13.09 | 738 | 13.04 | 741 |
| 100 | 0 | 0 | 0 | 0.481 | 13.25 | 729 | 13.21 | 731 |
| 110 | 0 | 0 | 0 | 0.481 | 13.42 | 720 | 13.38 | 722 |
| 120 | 0 | 0 | 0 | 0.481 | 13.58 | 711 | 13.55 | 713 |
| 130 | 0 | 0 | 0 | 0.481 | 13.75 | 703 | 13.72 | 705 |
| 167 | 0 | 0 | 0 | 0.481 | 14.33 | 675 | 14.29 | 677 |
| 212 | 0 | 0 | 0 | 0.481 | 14.97 | 646 | 14.91 | 649 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 21.01 | 1500 | 21.01 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 19.45 | 778 | 19.39 | 780 |
| 30 | 0 | 0 | 0 | 0.481 | 19.63 | 771 | 19.57 | 773 |
| 40 | 0 | 0 | 0 | 0.481 | 19.8 | 764 | 19.75 | 766 |
| 50 | 0 | 0 | 0 | 0.481 | 19.98 | 757 | 19.93 | 759 |
| 60 | 0 | 0 | 0 | 0.481 | 20.16 | 751 | 20.1 | 753 |
| 70 | 0 | 0 | 0 | 0.481 | 20.33 | 744 | 20.28 | 746 |
| 80 | 0 | 0 | 0 | 0.481 | 20.51 | 738 | 20.46 | 740 |
| 90 | 0 | 0 | 0 | 0.481 | 20.68 | 732 | 20.63 | 733 |
| 100 | 0 | 0 | 0 | 0.481 | 20.85 | 726 | 20.81 | 727 |
| 110 | 0 | 0 | 0 | 0.481 | 21.02 | 720 | 20.98 | 722 |
| 120 | 0 | 0 | 0 | 0.481 | 21.19 | 715 | 21.15 | 716 |
| 130 | 0 | 0 | 0 | 0.481 | 21.35 | 709 | 21.32 | 710 |
| 167 | 0 | 0 | 0 | 0.481 | 21.96 | 690 | 21.92 | 691 |
| 212 | 0 | 0 | 0 | 0.481 | 22.63 | 670 | 22.57 | 671 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 |
| 150 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 |
| 175 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 |
| 200 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 3-0 | 3-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 150 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-11 |
| 175 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 |
| 200 | 1-6 | 1-7 | 1-9 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.83

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 125 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 150 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 |
| 175 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 |
| 200 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 |
| 225 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 250 | 3-3 | 3-5 | 3-8 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 5-0 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 125 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 150 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 175 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 |
| 200 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 |
| 225 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 |
| 250 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 175 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 |
| 200 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 |
| 225 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 |
| 250 | 4-2 | 4-3 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 |
| 275 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 |
| 300 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 |
| 325 | 7-0 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-3 | 8-5 | 8-7 | 8-10 |
| 350 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 | 10-0 | 10-3 |
| 375 | 9-4 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 |
| 175 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 |
| 200 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 |
| 225 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 250 | 4-2 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 |
| 275 | 5-1 | 5-3 | 5-4 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 |
| 300 | 6-0 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-6 |
| 325 | 7-1 | 7-3 | 7-6 | 7-8 | 7-11 | 8-1 | 8-3 | 8-6 | 8-8 | 8-10 |
| 350 | 8-3 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-7 | 9-10 | 10-1 | 10-3 |
| 375 | 9-5 | 9-9 | 10-0 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.85

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 |
| 225 | 3-9 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 |
| 250 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 275 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 300 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 |
| 325 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-9 | 8-10 |
| 350 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-3 |
| 375 | 10-5 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-7 | 11-9 |
| 400 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-1 | 13-3 | 13-5 |
| 425 | 13-4 | 13-6 | 13-9 | 13-11 | 14-2 | 14-4 | 14-6 | 14-9 | 14-11 | 15-1 |
| 450 | 14-11 | 15-2 | 15-5 | 15-8 | 15-10 | 16-1 | 16-4 | 16-6 | 16-9 | 16-11 |
| 475 | 16-8 | 16-11 | 17-2 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-11 |
| 500 | 18-6 | 18-9 | 19-0 | 19-4 | 19-7 | 19-10 | 20-2 | 20-5 | 20-8 | 20-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 |
| 225 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 |
| 250 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 |
| 275 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 300 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 |
| 325 | 7-10 | 7-11 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 |
| 350 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 |
| 375 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 |
| 400 | 11-10 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 |
| 425 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 | 14-5 | 14-7 | 14-9 | 15-0 | 15-2 |
| 450 | 15-0 | 15-3 | 15-6 | 15-8 | 15-11 | 16-2 | 16-4 | 16-7 | 16-9 | 17-0 |
| 475 | 16-9 | 17-0 | 17-3 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-8 | 18-11 |
| 500 | 18-7 | 18-10 | 19-1 | 19-5 | 19-8 | 19-11 | 20-2 | 20-6 | 20-9 | 21-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 |
| 275 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 |
| 300 | 7-0 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-6 | 7-6 |
| 325 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 |
| 350 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 |
| 375 | 10-11 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 |
| 400 | 12-5 | 12-6 | 12-8 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-4 | 13-5 |
| 425 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-2 |
| 450 | 15-8 | 15-10 | 16-0 | 16-2 | 16-3 | 16-5 | 16-7 | 16-8 | 16-10 | 17-0 |
| 475 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-11 |
| 500 | 19-5 | 19-7 | 19-9 | 19-11 | 20-1 | 20-3 | 20-5 | 20-8 | 20-10 | 21-0 |
| 525 | 21-5 | 21-7 | 21-9 | 22-0 | 22-2 | 22-4 | 22-7 | 22-9 | 22-11 | 23-2 |
| 550 | 23-6 | 23-8 | 23-11 | 24-1 | 24-4 | 24-7 | 24-9 | 25-0 | 25-2 | 25-5 |
| 575 | 25-8 | 25-11 | 26-2 | 26-4 | 26-7 | 26-10 | 27-1 | 27-4 | 27-6 | 27-9 |
| 600 | 27-11 | 28-2 | 28-6 | 28-9 | 29-0 | 29-3 | 29-6 | 29-9 | 30-0 | 30-3 |
| 625 | 30-4 | 30-7 | 30-11 | 31-2 | 31-5 | 31-9 | 32-0 | 32-3 | 32-7 | 32-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 |
| 275 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 |
| 300 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 |
| 325 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 |
| 350 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 |
| 375 | 10-11 | 11-0 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 |
| 400 | 12-5 | 12-7 | 12-8 | 12-9 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 |
| 425 | 14-1 | 14-2 | 14-4 | 14-5 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 |
| 450 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 | 16-6 | 16-7 | 16-9 | 16-11 | 17-0 |
| 475 | 17-7 | 17-9 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 |
| 500 | 19-5 | 19-8 | 19-10 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 |
| 525 | 21-5 | 21-8 | 21-10 | 22-0 | 22-3 | 22-5 | 22-7 | 22-10 | 23-0 | 23-2 |
| 550 | 23-6 | 23-9 | 24-0 | 24-2 | 24-5 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 |
| 575 | 25-9 | 26-0 | 26-3 | 26-5 | 26-8 | 26-11 | 27-2 | 27-4 | 27-7 | 27-10 |
| 600 | 28-0 | 28-3 | 28-7 | 28-10 | 29-1 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 |
| 625 | 30-5 | 30-8 | 31-0 | 31-3 | 31-6 | 31-10 | 32-1 | 32-4 | 32-7 | 32-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 0.64 | 1954 | 0.63 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 0.27 | 2198 | 0.27 | 2228 |
| 30 | 0 | 0 | 0 | 0.481 | 0.29 | 2071 | 0.28 | 2112 |
| 40 | 0 | 0 | 0 | 0.481 | 0.31 | 1945 | 0.3 | 1996 |
| 50 | 0 | 0 | 0 | 0.481 | 0.33 | 1821 | 0.32 | 1880 |
| 60 | 0 | 0 | 0 | 0.481 | 0.35 | 1697 | 0.34 | 1763 |
| 70 | 0 | 0 | 0 | 0.481 | 0.38 | 1575 | 0.37 | 1647 |
| 80 | 0 | 0 | 0 | 0.481 | 0.41 | 1456 | 0.39 | 1532 |
| 90 | 0 | 0 | 0 | 0.481 | 0.45 | 1339 | 0.42 | 1418 |
| 100 | 0 | 0 | 0 | 0.481 | 0.49 | 1225 | 0.46 | 1305 |
| 110 | 0 | 0 | 0 | 0.481 | 0.54 | 1116 | 0.5 | 1196 |
| 120 | 0 | 0 | 0 | 0.481 | 0.59 | 1013 | 0.55 | 1090 |
| 130 | 0 | 0 | 0 | 0.481 | 0.66 | 917 | 0.61 | 990 |
| 167 | 0 | 0 | 0 | 0.481 | 0.93 | 647 | 0.86 | 695 |
| 212 | 0 | 0 | 0 | 0.481 | 1.28 | 471 | 1.2 | 503 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 2.51 | 1996 | 2.51 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 1.28 | 1873 | 1.28 | 1882 |
| 30 | 0 | 0 | 0 | 0.481 | 1.36 | 1765 | 1.35 | 1781 |
| 40 | 0 | 0 | 0 | 0.481 | 1.45 | 1661 | 1.43 | 1682 |
| 50 | 0 | 0 | 0 | 0.481 | 1.54 | 1561 | 1.52 | 1586 |
| 60 | 0 | 0 | 0 | 0.481 | 1.64 | 1465 | 1.61 | 1494 |
| 70 | 0 | 0 | 0 | 0.481 | 1.75 | 1375 | 1.71 | 1405 |
| 80 | 0 | 0 | 0 | 0.481 | 1.86 | 1290 | 1.82 | 1320 |
| 90 | 0 | 0 | 0 | 0.481 | 1.99 | 1211 | 1.94 | 1241 |
| 100 | 0 | 0 | 0 | 0.481 | 2.11 | 1139 | 2.06 | 1167 |
| 110 | 0 | 0 | 0 | 0.481 | 2.25 | 1072 | 2.19 | 1098 |
| 120 | 0 | 0 | 0 | 0.481 | 2.38 | 1010 | 2.33 | 1035 |
| 130 | 0 | 0 | 0 | 0.481 | 2.52 | 955 | 2.46 | 977 |
| 167 | 0 | 0 | 0 | 0.481 | 3.04 | 791 | 2.99 | 806 |
| 212 | 0 | 0 | 0 | 0.481 | 3.6 | 669 | 3.53 | 683 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 5.64 | 2000 | 5.64 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 3.65 | 1483 | 3.61 | 1499 |
| 30 | 0 | 0 | 0 | 0.481 | 3.82 | 1416 | 3.78 | 1433 |
| 40 | 0 | 0 | 0 | 0.481 | 4 | 1354 | 3.95 | 1371 |
| 50 | 0 | 0 | 0 | 0.481 | 4.18 | 1295 | 4.12 | 1313 |
| 60 | 0 | 0 | 0 | 0.481 | 4.36 | 1241 | 4.3 | 1259 |
| 70 | 0 | 0 | 0 | 0.481 | 4.55 | 1191 | 4.48 | 1208 |
| 80 | 0 | 0 | 0 | 0.481 | 4.73 | 1145 | 4.67 | 1161 |
| 90 | 0 | 0 | 0 | 0.481 | 4.92 | 1102 | 4.85 | 1117 |
| 100 | 0 | 0 | 0 | 0.481 | 5.1 | 1062 | 5.03 | 1076 |
| 110 | 0 | 0 | 0 | 0.481 | 5.29 | 1025 | 5.22 | 1038 |
| 120 | 0 | 0 | 0 | 0.481 | 5.47 | 991 | 5.4 | 1003 |
| 130 | 0 | 0 | 0 | 0.481 | 5.65 | 959 | 5.59 | 970 |
| 167 | 0 | 0 | 0 | 0.481 | 6.31 | 860 | 6.25 | 867 |
| 212 | 0 | 0 | 0 | 0.481 | 7.01 | 773 | 6.94 | 782 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 10.04 | 2000 | 10.04 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 7.71 | 1250 | 7.63 | 1262 |
| 30 | 0 | 0 | 0 | 0.481 | 7.93 | 1215 | 7.85 | 1227 |
| 40 | 0 | 0 | 0 | 0.481 | 8.15 | 1182 | 8.07 | 1194 |
| 50 | 0 | 0 | 0 | 0.481 | 8.37 | 1151 | 8.29 | 1163 |
| 60 | 0 | 0 | 0 | 0.481 | 8.59 | 1122 | 8.5 | 1133 |
| 70 | 0 | 0 | 0 | 0.481 | 8.8 | 1095 | 8.72 | 1105 |
| 80 | 0 | 0 | 0 | 0.481 | 9.02 | 1069 | 8.93 | 1079 |
| 90 | 0 | 0 | 0 | 0.481 | 9.23 | 1045 | 9.15 | 1054 |
| 100 | 0 | 0 | 0 | 0.481 | 9.44 | 1022 | 9.36 | 1030 |
| 110 | 0 | 0 | 0 | 0.481 | 9.64 | 1000 | 9.57 | 1008 |
| 120 | 0 | 0 | 0 | 0.481 | 9.85 | 979 | 9.77 | 987 |
| 130 | 0 | 0 | 0 | 0.481 | 10.05 | 960 | 9.98 | 966 |
| 167 | 0 | 0 | 0 | 0.481 | 10.78 | 895 | 10.72 | 900 |
| 212 | 0 | 0 | 0 | 0.481 | 11.58 | 833 | 11.5 | 839 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.001 | 15.71 | 2000 | 15.71 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 13.25 | 1137 | 13.16 | 1145 |
| 30 | 0 | 0 | 0 | 0.481 | 13.49 | 1117 | 13.39 | 1125 |
| 40 | 0 | 0 | 0 | 0.481 | 13.72 | 1099 | 13.63 | 1106 |
| 50 | 0 | 0 | 0 | 0.481 | 13.95 | 1081 | 13.86 | 1088 |
| 60 | 0 | 0 | 0 | 0.481 | 14.18 | 1063 | 14.09 | 1070 |
| 70 | 0 | 0 | 0 | 0.481 | 14.41 | 1047 | 14.32 | 1053 |
| 80 | 0 | 0 | 0 | 0.481 | 14.63 | 1031 | 14.54 | 1037 |
| 90 | 0 | 0 | 0 | 0.481 | 14.85 | 1016 | 14.77 | 1022 |
| 100 | 0 | 0 | 0 | 0.481 | 15.07 | 1001 | 14.99 | 1006 |
| 110 | 0 | 0 | 0 | 0.481 | 15.29 | 987 | 15.21 | 992 |
| 120 | 0 | 0 | 0 | 0.481 | 15.51 | 973 | 15.43 | 978 |
| 130 | 0 | 0 | 0 | 0.481 | 15.72 | 960 | 15.64 | 965 |
| 167 | 0 | 0 | 0 | 0.481 | 16.49 | 915 | 16.43 | 919 |
| 212 | 0 | 0 | 0 | 0.481 | 17.36 | 870 | 17.28 | 874 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 |
| 100 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 |
| 125 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 150 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 |
| 175 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 |
| 200 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 |
| 100 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 |
| 125 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 150 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 |
| 175 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 |
| 200 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS



OH821.91

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 125 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 150 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 |
| 175 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 200 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-2 |
| 225 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 250 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 |
| 125 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 150 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 175 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 |
| 200 | 1-3 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 225 | 1-8 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 |
| 250 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 |
| 175 | 1-3 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 |
| 200 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 |
| 250 | 2-6 | 2-7 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 |
| 275 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 |
| 300 | 3-7 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-3 |
| 325 | 4-3 | 4-5 | 4-8 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-11 | 6-2 |
| 350 | 4-11 | 5-2 | 5-4 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 |
| 375 | 5-8 | 5-11 | 6-2 | 6-5 | 6-9 | 7-0 | 7-3 | 7-7 | 7-10 | 8-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 |
| 175 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 |
| 200 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 225 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 |
| 250 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 |
| 275 | 3-1 | 3-3 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 |
| 300 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 |
| 325 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 |
| 350 | 5-0 | 5-2 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 |
| 375 | 5-8 | 6-0 | 6-3 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 |
| 225 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 |
| 250 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 275 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 |
| 300 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 |
| 325 | 5-0 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 |
| 350 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 |
| 375 | 6-8 | 6-11 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 | 8-0 | 8-3 | 8-5 |
| 400 | 7-8 | 7-10 | 8-1 | 8-3 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 |
| 425 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 | 10-7 | 10-10 |
| 450 | 9-8 | 9-11 | 10-3 | 10-6 | 10-9 | 11-0 | 11-4 | 11-7 | 11-10 | 12-1 |
| 475 | 10-9 | 11-1 | 11-5 | 11-8 | 12-0 | 12-4 | 12-7 | 12-11 | 13-2 | 13-6 |
| 500 | 11-11 | 12-3 | 12-7 | 12-11 | 13-3 | 13-8 | 14-0 | 14-4 | 14-8 | 14-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 |
| 225 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 |
| 250 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 275 | 3-8 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 |
| 300 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 |
| 325 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 |
| 350 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 |
| 375 | 6-9 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 | 8-4 | 8-6 |
| 400 | 7-9 | 7-11 | 8-2 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-8 |
| 425 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 |
| 450 | 9-9 | 10-0 | 10-4 | 10-7 | 10-10 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 |
| 475 | 10-10 | 11-2 | 11-6 | 11-10 | 12-1 | 12-5 | 12-9 | 13-0 | 13-4 | 13-7 |
| 500 | 12-1 | 12-5 | 12-9 | 13-1 | 13-5 | 13-9 | 14-1 | 14-5 | 14-9 | 15-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 |
| 275 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 |
| 300 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 325 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 350 | 6-5 | 6-7 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 |
| 375 | 7-5 | 7-6 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 | 8-4 | 8-5 | 8-7 |
| 400 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-9 |
| 425 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 |
| 450 | 10-8 | 10-10 | 11-0 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-2 | 12-4 |
| 475 | 11-11 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 | 13-9 |
| 500 | 13-2 | 13-5 | 13-8 | 13-10 | 14-1 | 14-4 | 14-6 | 14-9 | 15-0 | 15-3 |
| 525 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-9 |
| 550 | 15-11 | 16-3 | 16-6 | 16-9 | 17-1 | 17-4 | 17-7 | 17-10 | 18-2 | 18-5 |
| 575 | 17-5 | 17-9 | 18-0 | 18-4 | 18-8 | 18-11 | 19-3 | 19-6 | 19-10 | 20-1 |
| 600 | 19-0 | 19-4 | 19-8 | 20-0 | 20-4 | 20-7 | 20-11 | 21-3 | 21-7 | 21-11 |
| 625 | 20-7 | 20-11 | 21-4 | 21-8 | 22-0 | 22-5 | 22-9 | 23-1 | 23-5 | 23-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 |
| 275 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 |
| 300 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 |
| 325 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 350 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 | 7-6 |
| 375 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 | 8-6 | 8-7 |
| 400 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-9 |
| 425 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 |
| 450 | 10-9 | 10-11 | 11-1 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-5 |
| 475 | 12-0 | 12-2 | 12-5 | 12-7 | 12-10 | 13-0 | 13-2 | 13-5 | 13-7 | 13-10 |
| 500 | 13-3 | 13-6 | 13-9 | 13-11 | 14-2 | 14-5 | 14-8 | 14-10 | 15-1 | 15-3 |
| 525 | 14-7 | 14-10 | 15-2 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-7 | 16-10 |
| 550 | 16-0 | 16-4 | 16-7 | 16-11 | 17-2 | 17-5 | 17-9 | 18-0 | 18-3 | 18-6 |
| 575 | 17-6 | 17-10 | 18-2 | 18-6 | 18-9 | 19-1 | 19-4 | 19-8 | 19-11 | 20-3 |
| 600 | 19-1 | 19-5 | 19-9 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-0 |
| 625 | 20-9 | 21-1 | 21-5 | 21-10 | 22-2 | 22-6 | 22-11 | 23-3 | 23-7 | 23-11 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 20 | 0 | 10.8 | 0 | 1.001 | 1.25 | 1000 | 1.25 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 0.74 | 811 | 0.73 | 819 |
| 30 | 0 | 0 | 0 | 0.481 | 0.99 | 608 | 0.97 | 618 |
| 40 | 0 | 0 | 0 | 0.481 | 1.08 | 558 | 1.06 | 567 |
| 50 | 0 | 0 | 0 | 0.481 | 1.17 | 516 | 1.15 | 523 |
| 60 | 0 | 0 | 0 | 0.481 | 1.25 | 479 | 1.24 | 486 |
| 70 | 0 | 0 | 0 | 0.481 | 1.34 | 448 | 1.33 | 454 |
| 80 | 0 | 0 | 0 | 0.481 | 1.43 | 422 | 1.41 | 426 |
| 90 | 0 | 0 | 0 | 0.481 | 1.51 | 399 | 1.5 | 402 |
| 100 | 0 | 0 | 0 | 0.481 | 1.59 | 378 | 1.58 | 381 |
| 110 | 0 | 0 | 0 | 0.481 | 1.67 | 361 | 1.66 | 363 |
| 120 | 0 | 0 | 0 | 0.481 | 1.74 | 345 | 1.72 | 349 |
| 130 | 0 | 0 | 0 | 0.481 | 1.82 | 331 | 1.79 | 336 |
| 167 | 0 | 0 | 0 | 0.481 | 2.05 | 294 | 2.02 | 298 |
| 212 | 0 | 0 | 0 | 0.481 | 2.31 | 261 | 2.28 | 264 |

* Design Condition

Span = 200 ft

| Design Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 20 | 0 | 10.8 | 0 | 1.001 | 5.02 | 1000 | 5.02 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 4.34 | 556 | 4.31 | 559 |
| 30 | 0 | 0 | 0 | 0.481 | 4.69 | 514 | 4.66 | 517 |
| 40 | 0 | 0 | 0 | 0.481 | 4.8 | 502 | 4.78 | 505 |
| 50 | 0 | 0 | 0 | 0.481 | 4.91 | 491 | 4.89 | 493 |
| 60 | 0 | 0 | 0 | 0.481 | 5.02 | 480 | 5 | 482 |
| 70 | 0 | 0 | 0 | 0.481 | 5.13 | 470 | 5.11 | 472 |
| 80 | 0 | 0 | 0 | 0.481 | 5.24 | 461 | 5.22 | 462 |
| 90 | 0 | 0 | 0 | 0.481 | 5.34 | 452 | 5.33 | 453 |
| 100 | 0 | 0 | 0 | 0.481 | 5.44 | 443 | 5.43 | 444 |
| 110 | 0 | 0 | 0 | 0.481 | 5.54 | 435 | 5.54 | 436 |
| 120 | 0 | 0 | 0 | 0.481 | 5.64 | 427 | 5.63 | 428 |
| 130 | 0 | 0 | 0 | 0.481 | 5.74 | 420 | 5.72 | 422 |
| 167 | 0 | 0 | 0 | 0.481 | 6.07 | 398 | 6.04 | 400 |
| 212 | 0 | 0 | 0 | 0.481 | 6.44 | 375 | 6.41 | 377 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 11.33 | 1000 | 11.33 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 10.63 | 511 | 10.6 | 513 |
| 30 | 0 | 0 | 0 | 0.481 | 10.99 | 495 | 10.96 | 496 |
| 40 | 0 | 0 | 0 | 0.481 | 11.1 | 490 | 11.08 | 491 |
| 50 | 0 | 0 | 0 | 0.481 | 11.22 | 485 | 11.2 | 486 |
| 60 | 0 | 0 | 0 | 0.481 | 11.33 | 480 | 11.31 | 481 |
| 70 | 0 | 0 | 0 | 0.481 | 11.45 | 475 | 11.43 | 476 |
| 80 | 0 | 0 | 0 | 0.481 | 11.56 | 471 | 11.54 | 472 |
| 90 | 0 | 0 | 0 | 0.481 | 11.67 | 466 | 11.66 | 467 |
| 100 | 0 | 0 | 0 | 0.481 | 11.78 | 462 | 11.77 | 463 |
| 110 | 0 | 0 | 0 | 0.481 | 11.89 | 458 | 11.88 | 458 |
| 120 | 0 | 0 | 0 | 0.481 | 12 | 454 | 11.99 | 454 |
| 130 | 0 | 0 | 0 | 0.481 | 12.11 | 450 | 12.09 | 451 |
| 167 | 0 | 0 | 0 | 0.481 | 12.47 | 437 | 12.44 | 438 |
| 212 | 0 | 0 | 0 | 0.481 | 12.89 | 423 | 12.86 | 424 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 20.23 | 1000 | 20.23 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 19.53 | 497 | 19.5 | 498 |
| 30 | 0 | 0 | 0 | 0.481 | 19.89 | 488 | 19.86 | 489 |
| 40 | 0 | 0 | 0 | 0.481 | 20.01 | 486 | 19.98 | 486 |
| 50 | 0 | 0 | 0 | 0.481 | 20.12 | 483 | 20.1 | 484 |
| 60 | 0 | 0 | 0 | 0.481 | 20.24 | 480 | 20.22 | 481 |
| 70 | 0 | 0 | 0 | 0.481 | 20.35 | 478 | 20.33 | 478 |
| 80 | 0 | 0 | 0 | 0.481 | 20.47 | 475 | 20.45 | 475 |
| 90 | 0 | 0 | 0 | 0.481 | 20.58 | 472 | 20.57 | 473 |
| 100 | 0 | 0 | 0 | 0.481 | 20.69 | 470 | 20.68 | 470 |
| 110 | 0 | 0 | 0 | 0.481 | 20.81 | 467 | 20.8 | 468 |
| 120 | 0 | 0 | 0 | 0.481 | 20.92 | 465 | 20.91 | 465 |
| 130 | 0 | 0 | 0 | 0.481 | 21.03 | 462 | 21.02 | 463 |
| 167 | 0 | 0 | 0 | 0.481 | 21.42 | 454 | 21.39 | 455 |
| 212 | 0 | 0 | 0 | 0.481 | 21.86 | 445 | 21.83 | 446 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 31.8 | 1000 | 31.8 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 31.1 | 491 | 31.07 | 491 |
| 30 | 0 | 0 | 0 | 0.481 | 31.46 | 485 | 31.43 | 486 |
| 40 | 0 | 0 | 0 | 0.481 | 31.57 | 484 | 31.55 | 484 |
| 50 | 0 | 0 | 0 | 0.481 | 31.69 | 482 | 31.67 | 482 |
| 60 | 0 | 0 | 0 | 0.481 | 31.81 | 480 | 31.78 | 481 |
| 70 | 0 | 0 | 0 | 0.481 | 31.92 | 479 | 31.9 | 479 |
| 80 | 0 | 0 | 0 | 0.481 | 32.04 | 477 | 32.02 | 477 |
| 90 | 0 | 0 | 0 | 0.481 | 32.15 | 475 | 32.14 | 475 |
| 100 | 0 | 0 | 0 | 0.481 | 32.27 | 474 | 32.26 | 474 |
| 110 | 0 | 0 | 0 | 0.481 | 32.38 | 472 | 32.37 | 472 |
| 120 | 0 | 0 | 0 | 0.481 | 32.5 | 470 | 32.49 | 470 |
| 130 | 0 | 0 | 0 | 0.481 | 32.61 | 469 | 32.6 | 469 |
| 167 | 0 | 0 | 0 | 0.481 | 33 | 463 | 32.98 | 464 |
| 212 | 0 | 0 | 0 | 0.481 | 33.46 | 457 | 33.44 | 458 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125 | 1-5 | 1-6 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 |
| 150 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 |
| 175 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 |
| 200 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 |
| 150 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 |
| 175 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 | 4-4 | 4-8 | 4-10 | 5-1 |
| 200 | 3-7 | 4-0 | 4-4 | 4-8 | 5-0 | 5-4 | 5-9 | 6-1 | 6-4 | 6-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.99

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 |
| 125 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 |
| 150 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 |
| 175 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 200 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 |
| 225 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 | 6-11 | 7-0 |
| 250 | 7-1 | 7-3 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 |
| 125 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 |
| 150 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-1 |
| 175 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 200 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-7 |
| 225 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 | 6-11 | 7-0 |
| 250 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.100

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 |
| 175 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 |
| 200 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-3 |
| 225 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 |
| 250 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 275 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-11 | 10-0 |
| 300 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-11 |
| 325 | 12-9 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 13-11 |
| 350 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-0 | 16-2 |
| 375 | 16-11 | 17-2 | 17-4 | 17-6 | 17-8 | 17-10 | 18-1 | 18-3 | 18-5 | 18-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 |
| 175 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 |
| 200 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 |
| 225 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 |
| 250 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 275 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-0 |
| 300 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-11 |
| 325 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 |
| 350 | 14-10 | 15-0 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-1 | 16-2 |
| 375 | 17-0 | 17-2 | 17-4 | 17-7 | 17-9 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 |
| 225 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 |
| 250 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 |
| 275 | 9-4 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-10 |
| 300 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 |
| 325 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 |
| 350 | 15-1 | 15-2 | 15-3 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 |
| 375 | 17-4 | 17-5 | 17-7 | 17-8 | 17-9 | 17-10 | 18-0 | 18-1 | 18-2 | 18-3 |
| 400 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-5 | 20-7 | 20-8 | 20-10 |
| 425 | 22-4 | 22-5 | 22-7 | 22-8 | 22-10 | 23-0 | 23-1 | 23-3 | 23-4 | 23-6 |
| 450 | 25-0 | 25-2 | 25-4 | 25-6 | 25-7 | 25-9 | 25-11 | 26-1 | 26-2 | 26-4 |
| 475 | 27-10 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 | 29-2 | 29-4 |
| 500 | 30-11 | 31-1 | 31-3 | 31-6 | 31-8 | 31-10 | 32-0 | 32-2 | 32-5 | 32-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 |
| 225 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 |
| 250 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 |
| 275 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 |
| 300 | 11-1 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 |
| 325 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 |
| 350 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 |
| 375 | 17-4 | 17-6 | 17-7 | 17-8 | 17-9 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 |
| 400 | 19-9 | 19-11 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-8 | 20-10 |
| 425 | 22-4 | 22-6 | 22-7 | 22-9 | 22-10 | 23-0 | 23-1 | 23-3 | 23-4 | 23-6 |
| 450 | 25-1 | 25-2 | 25-4 | 25-6 | 25-8 | 25-9 | 25-11 | 26-1 | 26-3 | 26-4 |
| 475 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 | 29-3 | 29-5 |
| 500 | 30-11 | 31-2 | 31-4 | 31-6 | 31-8 | 31-10 | 32-1 | 32-3 | 32-5 | 32-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 |
| 275 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 300 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 |
| 325 | 13-2 | 13-3 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 |
| 350 | 15-4 | 15-4 | 15-5 | 15-6 | 15-6 | 15-7 | 15-8 | 15-8 | 15-9 | 15-10 |
| 375 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-0 | 18-1 | 18-2 |
| 400 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-5 | 20-6 | 20-7 | 20-8 |
| 425 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 |
| 450 | 25-4 | 25-5 | 25-6 | 25-7 | 25-9 | 25-10 | 25-11 | 26-0 | 26-1 | 26-2 |
| 475 | 28-3 | 28-4 | 28-5 | 28-7 | 28-8 | 28-9 | 28-11 | 29-0 | 29-1 | 29-2 |
| 500 | 31-4 | 31-5 | 31-7 | 31-8 | 31-9 | 31-11 | 32-0 | 32-2 | 32-3 | 32-4 |
| 525 | 34-6 | 34-8 | 34-10 | 34-11 | 35-1 | 35-2 | 35-4 | 35-5 | 35-7 | 35-9 |
| 550 | 37-11 | 38-1 | 38-3 | 38-4 | 38-6 | 38-8 | 38-9 | 38-11 | 39-1 | 39-3 |
| 575 | 41-6 | 41-8 | 41-9 | 41-11 | 42-1 | 42-3 | 42-5 | 42-7 | 42-9 | 42-11 |
| 600 | 45-2 | 45-4 | 45-6 | 45-8 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 | 46-9 |
| 625 | 49-1 | 49-3 | 49-5 | 49-7 | 49-10 | 50-0 | 50-2 | 50-4 | 50-7 | 50-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 |
| 275 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 300 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 |
| 325 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 |
| 350 | 15-4 | 15-4 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 | 15-9 | 15-9 | 15-10 |
| 375 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-1 | 18-2 |
| 400 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 |
| 425 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 |
| 450 | 25-4 | 25-5 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 | 26-0 | 26-1 | 26-2 |
| 475 | 28-3 | 28-4 | 28-6 | 28-7 | 28-8 | 28-10 | 28-11 | 29-0 | 29-1 | 29-3 |
| 500 | 31-4 | 31-5 | 31-7 | 31-8 | 31-10 | 31-11 | 32-0 | 32-2 | 32-3 | 32-5 |
| 525 | 34-7 | 34-8 | 34-10 | 34-11 | 35-1 | 35-3 | 35-4 | 35-6 | 35-7 | 35-9 |
| 550 | 38-0 | 38-1 | 38-3 | 38-5 | 38-6 | 38-8 | 38-10 | 38-11 | 39-1 | 39-3 |
| 575 | 41-6 | 41-8 | 41-10 | 42-0 | 42-2 | 42-3 | 42-5 | 42-7 | 42-9 | 42-11 |
| 600 | 45-3 | 45-5 | 45-7 | 45-9 | 45-11 | 46-1 | 46-3 | 46-5 | 46-7 | 46-9 |
| 625 | 49-1 | 49-4 | 49-6 | 49-8 | 49-10 | 50-0 | 50-3 | 50-5 | 50-7 | 50-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 0.83 | 1500 | 0.83 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 0.4 | 1519 | 0.4 | 1519 |
| 30 | 0 | 0 | 0 | 0.481 | 0.51 | 1176 | 0.5 | 1193 |
| 40 | 0 | 0 | 0 | 0.481 | 0.56 | 1070 | 0.55 | 1090 |
| 50 | 0 | 0 | 0 | 0.481 | 0.62 | 970 | 0.61 | 992 |
| 60 | 0 | 0 | 0 | 0.481 | 0.69 | 877 | 0.67 | 899 |
| 70 | 0 | 0 | 0 | 0.481 | 0.76 | 793 | 0.74 | 815 |
| 80 | 0 | 0 | 0 | 0.481 | 0.84 | 718 | 0.81 | 738 |
| 90 | 0 | 0 | 0 | 0.481 | 0.92 | 652 | 0.9 | 671 |
| 100 | 0 | 0 | 0 | 0.481 | 1.01 | 596 | 0.98 | 612 |
| 110 | 0 | 0 | 0 | 0.481 | 1.1 | 548 | 1.07 | 561 |
| 120 | 0 | 0 | 0 | 0.481 | 1.19 | 507 | 1.16 | 518 |
| 130 | 0 | 0 | 0 | 0.481 | 1.27 | 472 | 1.24 | 484 |
| 167 | 0 | 0 | 0 | 0.481 | 1.56 | 386 | 1.52 | 397 |
| 212 | 0 | 0 | 0 | 0.481 | 1.87 | 322 | 1.83 | 330 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 3.34 | 1500 | 3.34 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 2.23 | 1078 | 2.21 | 1091 |
| 30 | 0 | 0 | 0 | 0.481 | 2.65 | 909 | 2.61 | 922 |
| 40 | 0 | 0 | 0 | 0.481 | 2.79 | 863 | 2.75 | 876 |
| 50 | 0 | 0 | 0 | 0.481 | 2.93 | 822 | 2.89 | 833 |
| 60 | 0 | 0 | 0 | 0.481 | 3.07 | 784 | 3.03 | 795 |
| 70 | 0 | 0 | 0 | 0.481 | 3.21 | 750 | 3.17 | 760 |
| 80 | 0 | 0 | 0 | 0.481 | 3.35 | 719 | 3.31 | 728 |
| 90 | 0 | 0 | 0 | 0.481 | 3.48 | 691 | 3.44 | 699 |
| 100 | 0 | 0 | 0 | 0.481 | 3.62 | 666 | 3.58 | 673 |
| 110 | 0 | 0 | 0 | 0.481 | 3.75 | 642 | 3.71 | 648 |
| 120 | 0 | 0 | 0 | 0.481 | 3.88 | 621 | 3.85 | 626 |
| 130 | 0 | 0 | 0 | 0.481 | 4.01 | 601 | 3.98 | 606 |
| 167 | 0 | 0 | 0 | 0.481 | 4.44 | 542 | 4.39 | 548 |
| 212 | 0 | 0 | 0 | 0.481 | 4.91 | 491 | 4.86 | 496 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 7.53 | 1500 | 7.53 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 6.21 | 873 | 6.16 | 880 |
| 30 | 0 | 0 | 0 | 0.481 | 6.73 | 806 | 6.67 | 813 |
| 40 | 0 | 0 | 0 | 0.481 | 6.89 | 787 | 6.84 | 793 |
| 50 | 0 | 0 | 0 | 0.481 | 7.06 | 769 | 7 | 774 |
| 60 | 0 | 0 | 0 | 0.481 | 7.22 | 751 | 7.17 | 757 |
| 70 | 0 | 0 | 0 | 0.481 | 7.38 | 735 | 7.33 | 740 |
| 80 | 0 | 0 | 0 | 0.481 | 7.54 | 720 | 7.49 | 724 |
| 90 | 0 | 0 | 0 | 0.481 | 7.69 | 705 | 7.65 | 709 |
| 100 | 0 | 0 | 0 | 0.481 | 7.85 | 692 | 7.8 | 695 |
| 110 | 0 | 0 | 0 | 0.481 | 8 | 679 | 7.96 | 682 |
| 120 | 0 | 0 | 0 | 0.481 | 8.15 | 666 | 8.11 | 669 |
| 130 | 0 | 0 | 0 | 0.481 | 8.29 | 654 | 8.26 | 657 |
| 167 | 0 | 0 | 0 | 0.481 | 8.81 | 616 | 8.76 | 620 |
| 212 | 0 | 0 | 0 | 0.481 | 9.37 | 580 | 9.32 | 583 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 13.41 | 1500 | 13.41 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 12.04 | 802 | 11.98 | 806 |
| 30 | 0 | 0 | 0 | 0.481 | 12.57 | 768 | 12.51 | 772 |
| 40 | 0 | 0 | 0 | 0.481 | 12.75 | 758 | 12.69 | 761 |
| 50 | 0 | 0 | 0 | 0.481 | 12.92 | 748 | 12.86 | 751 |
| 60 | 0 | 0 | 0 | 0.481 | 13.09 | 738 | 13.03 | 741 |
| 70 | 0 | 0 | 0 | 0.481 | 13.25 | 729 | 13.2 | 732 |
| 80 | 0 | 0 | 0 | 0.481 | 13.42 | 720 | 13.37 | 723 |
| 90 | 0 | 0 | 0 | 0.481 | 13.58 | 711 | 13.54 | 714 |
| 100 | 0 | 0 | 0 | 0.481 | 13.75 | 703 | 13.7 | 705 |
| 110 | 0 | 0 | 0 | 0.481 | 13.91 | 695 | 13.87 | 697 |
| 120 | 0 | 0 | 0 | 0.481 | 14.07 | 687 | 14.03 | 689 |
| 130 | 0 | 0 | 0 | 0.481 | 14.22 | 680 | 14.19 | 681 |
| 167 | 0 | 0 | 0 | 0.481 | 14.79 | 654 | 14.74 | 656 |
| 212 | 0 | 0 | 0 | 0.481 | 15.41 | 628 | 15.35 | 630 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 21.01 | 1500 | 21.01 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 19.63 | 771 | 19.56 | 773 |
| 30 | 0 | 0 | 0 | 0.481 | 20.16 | 751 | 20.1 | 753 |
| 40 | 0 | 0 | 0 | 0.481 | 20.33 | 744 | 20.27 | 746 |
| 50 | 0 | 0 | 0 | 0.481 | 20.51 | 738 | 20.45 | 740 |
| 60 | 0 | 0 | 0 | 0.481 | 20.68 | 732 | 20.62 | 734 |
| 70 | 0 | 0 | 0 | 0.481 | 20.85 | 726 | 20.8 | 728 |
| 80 | 0 | 0 | 0 | 0.481 | 21.02 | 720 | 20.97 | 722 |
| 90 | 0 | 0 | 0 | 0.481 | 21.19 | 715 | 21.14 | 716 |
| 100 | 0 | 0 | 0 | 0.481 | 21.35 | 709 | 21.31 | 710 |
| 110 | 0 | 0 | 0 | 0.481 | 21.52 | 704 | 21.48 | 705 |
| 120 | 0 | 0 | 0 | 0.481 | 21.69 | 698 | 21.65 | 700 |
| 130 | 0 | 0 | 0 | 0.481 | 21.85 | 693 | 21.82 | 694 |
| 167 | 0 | 0 | 0 | 0.481 | 22.45 | 675 | 22.4 | 677 |
| 212 | 0 | 0 | 0 | 0.481 | 23.09 | 656 | 23.04 | 658 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 |
| 100 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 |
| 150 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 |
| 175 | 1-5 | 1-7 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 |
| 200 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 | 3-7 | 3-11 | 4-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 100 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 |
| 150 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-11 | 2-1 | 2-3 | 2-6 |
| 175 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 |
| 200 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-8 | 4-0 | 4-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 |
| 150 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 175 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 |
| 200 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-9 |
| 225 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 |
| 250 | 3-10 | 4-1 | 4-4 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-7 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 |
| 150 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 |
| 175 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 |
| 225 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 |
| 250 | 3-11 | 4-2 | 4-4 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 1-7 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 |
| 175 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 |
| 200 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 |
| 225 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 |
| 250 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 |
| 275 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 |
| 300 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 |
| 325 | 7-8 | 7-10 | 8-0 | 8-3 | 8-5 | 8-7 | 8-9 | 9-0 | 9-2 | 9-4 |
| 350 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 | 10-0 | 10-2 | 10-5 | 10-8 | 10-10 |
| 375 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 | 11-5 | 11-9 | 11-11 | 12-2 | 12-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 |
| 175 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 |
| 200 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 |
| 225 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 |
| 250 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-7 |
| 275 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-7 | 6-9 |
| 300 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-6 | 7-8 | 7-10 | 8-0 |
| 325 | 7-8 | 7-11 | 8-1 | 8-3 | 8-6 | 8-8 | 8-10 | 9-0 | 9-3 | 9-5 |
| 350 | 8-11 | 9-2 | 9-5 | 9-7 | 9-10 | 10-1 | 10-3 | 10-6 | 10-8 | 10-11 |
| 375 | 10-3 | 10-6 | 10-9 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.109

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 225 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 |
| 250 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 |
| 275 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 300 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-10 |
| 325 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 | 9-0 | 9-2 |
| 350 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 |
| 375 | 10-10 | 11-0 | 11-2 | 11-4 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-2 |
| 400 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 |
| 425 | 13-11 | 14-2 | 14-4 | 14-6 | 14-9 | 14-11 | 15-1 | 15-3 | 15-6 | 15-8 |
| 450 | 15-7 | 15-10 | 16-1 | 16-3 | 16-6 | 16-9 | 16-11 | 17-2 | 17-4 | 17-7 |
| 475 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 18-10 | 19-1 | 19-4 | 19-7 |
| 500 | 19-4 | 19-7 | 19-10 | 20-1 | 20-5 | 20-8 | 20-11 | 21-2 | 21-5 | 21-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 225 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 |
| 250 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 |
| 275 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 300 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-10 |
| 325 | 8-2 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 |
| 350 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 |
| 375 | 10-11 | 11-1 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 | 12-3 |
| 400 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 |
| 425 | 14-0 | 14-2 | 14-5 | 14-7 | 14-9 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 |
| 450 | 15-8 | 15-11 | 16-2 | 16-4 | 16-7 | 16-9 | 17-0 | 17-2 | 17-5 | 17-7 |
| 475 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-8 | 18-11 | 19-2 | 19-5 | 19-7 |
| 500 | 19-5 | 19-8 | 19-11 | 20-2 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 | 21-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 275 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 |
| 300 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 |
| 325 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 |
| 350 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 |
| 375 | 11-2 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 |
| 400 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 |
| 425 | 14-5 | 14-6 | 14-8 | 14-9 | 14-11 | 15-0 | 15-2 | 15-3 | 15-5 | 15-6 |
| 450 | 16-2 | 16-3 | 16-5 | 16-7 | 16-8 | 16-10 | 17-0 | 17-1 | 17-3 | 17-5 |
| 475 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 | 19-5 |
| 500 | 19-11 | 20-1 | 20-3 | 20-5 | 20-7 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 |
| 525 | 22-0 | 22-2 | 22-4 | 22-7 | 22-9 | 22-11 | 23-1 | 23-4 | 23-6 | 23-8 |
| 550 | 24-1 | 24-4 | 24-6 | 24-9 | 25-0 | 25-2 | 25-5 | 25-7 | 25-10 | 26-0 |
| 575 | 26-4 | 26-7 | 26-10 | 27-1 | 27-4 | 27-6 | 27-9 | 28-0 | 28-2 | 28-5 |
| 600 | 28-9 | 29-0 | 29-3 | 29-6 | 29-9 | 30-0 | 30-3 | 30-6 | 30-9 | 31-0 |
| 625 | 31-2 | 31-5 | 31-9 | 32-0 | 32-3 | 32-6 | 32-10 | 33-1 | 33-4 | 33-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 275 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 |
| 300 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 |
| 325 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 | 9-1 |
| 350 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 |
| 375 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 400 | 12-9 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 |
| 425 | 14-5 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-6 |
| 450 | 16-2 | 16-4 | 16-6 | 16-7 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 | 17-5 |
| 475 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 | 19-1 | 19-3 | 19-5 |
| 500 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 |
| 525 | 22-0 | 22-3 | 22-5 | 22-7 | 22-10 | 23-0 | 23-2 | 23-4 | 23-7 | 23-9 |
| 550 | 24-2 | 24-5 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-8 | 25-10 | 26-1 |
| 575 | 26-5 | 26-8 | 26-11 | 27-2 | 27-4 | 27-7 | 27-10 | 28-0 | 28-3 | 28-6 |
| 600 | 28-10 | 29-1 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 | 30-6 | 30-9 | 31-0 |
| 625 | 31-3 | 31-6 | 31-10 | 32-1 | 32-4 | 32-7 | 32-11 | 33-2 | 33-5 | 33-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 0.63 | 2000 | 0.63 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 0.28 | 2110 | 0.28 | 2110 |
| 30 | 0 | 0 | 0 | 0.481 | 0.34 | 1748 | 0.34 | 1765 |
| 40 | 0 | 0 | 0 | 0.481 | 0.37 | 1626 | 0.36 | 1651 |
| 50 | 0 | 0 | 0 | 0.481 | 0.4 | 1505 | 0.39 | 1536 |
| 60 | 0 | 0 | 0 | 0.481 | 0.43 | 1387 | 0.42 | 1423 |
| 70 | 0 | 0 | 0 | 0.481 | 0.47 | 1272 | 0.46 | 1312 |
| 80 | 0 | 0 | 0 | 0.481 | 0.52 | 1161 | 0.5 | 1203 |
| 90 | 0 | 0 | 0 | 0.481 | 0.57 | 1055 | 0.55 | 1098 |
| 100 | 0 | 0 | 0 | 0.481 | 0.63 | 956 | 0.6 | 998 |
| 110 | 0 | 0 | 0 | 0.481 | 0.7 | 864 | 0.67 | 904 |
| 120 | 0 | 0 | 0 | 0.481 | 0.77 | 781 | 0.74 | 818 |
| 130 | 0 | 0 | 0 | 0.481 | 0.85 | 708 | 0.81 | 740 |
| 167 | 0 | 0 | 0 | 0.481 | 1.15 | 522 | 1.1 | 547 |
| 212 | 0 | 0 | 0 | 0.481 | 1.5 | 402 | 1.44 | 419 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 2.51 | 2000 | 2.51 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 1.36 | 1771 | 1.35 | 1782 |
| 30 | 0 | 0 | 0 | 0.481 | 1.64 | 1471 | 1.61 | 1497 |
| 40 | 0 | 0 | 0 | 0.481 | 1.74 | 1380 | 1.71 | 1408 |
| 50 | 0 | 0 | 0 | 0.481 | 1.86 | 1295 | 1.82 | 1325 |
| 60 | 0 | 0 | 0 | 0.481 | 1.98 | 1216 | 1.93 | 1245 |
| 70 | 0 | 0 | 0 | 0.481 | 2.11 | 1143 | 2.05 | 1172 |
| 80 | 0 | 0 | 0 | 0.481 | 2.24 | 1075 | 2.18 | 1103 |
| 90 | 0 | 0 | 0 | 0.481 | 2.37 | 1014 | 2.31 | 1040 |
| 100 | 0 | 0 | 0 | 0.481 | 2.51 | 958 | 2.45 | 982 |
| 110 | 0 | 0 | 0 | 0.481 | 2.65 | 907 | 2.59 | 929 |
| 120 | 0 | 0 | 0 | 0.481 | 2.79 | 862 | 2.73 | 881 |
| 130 | 0 | 0 | 0 | 0.481 | 2.93 | 820 | 2.87 | 837 |
| 167 | 0 | 0 | 0 | 0.481 | 3.44 | 699 | 3.38 | 713 |
| 212 | 0 | 0 | 0 | 0.481 | 3.97 | 607 | 3.9 | 618 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 5.64 | 2000 | 5.64 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 3.82 | 1416 | 3.77 | 1435 |
| 30 | 0 | 0 | 0 | 0.481 | 4.36 | 1241 | 4.29 | 1261 |
| 40 | 0 | 0 | 0 | 0.481 | 4.55 | 1191 | 4.47 | 1211 |
| 50 | 0 | 0 | 0 | 0.481 | 4.73 | 1145 | 4.65 | 1164 |
| 60 | 0 | 0 | 0 | 0.481 | 4.92 | 1102 | 4.84 | 1120 |
| 70 | 0 | 0 | 0 | 0.481 | 5.1 | 1062 | 5.02 | 1079 |
| 80 | 0 | 0 | 0 | 0.481 | 5.29 | 1025 | 5.2 | 1041 |
| 90 | 0 | 0 | 0 | 0.481 | 5.47 | 991 | 5.39 | 1006 |
| 100 | 0 | 0 | 0 | 0.481 | 5.65 | 959 | 5.57 | 973 |
| 110 | 0 | 0 | 0 | 0.481 | 5.83 | 930 | 5.75 | 942 |
| 120 | 0 | 0 | 0 | 0.481 | 6.01 | 902 | 5.93 | 914 |
| 130 | 0 | 0 | 0 | 0.481 | 6.18 | 877 | 6.11 | 887 |
| 167 | 0 | 0 | 0 | 0.481 | 6.81 | 796 | 6.75 | 803 |
| 212 | 0 | 0 | 0 | 0.481 | 7.48 | 725 | 7.4 | 733 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 10.04 | 2000 | 10.04 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 7.93 | 1215 | 7.84 | 1228 |
| 30 | 0 | 0 | 0 | 0.481 | 8.59 | 1122 | 8.49 | 1135 |
| 40 | 0 | 0 | 0 | 0.481 | 8.8 | 1095 | 8.71 | 1107 |
| 50 | 0 | 0 | 0 | 0.481 | 9.02 | 1069 | 8.92 | 1081 |
| 60 | 0 | 0 | 0 | 0.481 | 9.23 | 1045 | 9.13 | 1056 |
| 70 | 0 | 0 | 0 | 0.481 | 9.44 | 1022 | 9.34 | 1032 |
| 80 | 0 | 0 | 0 | 0.481 | 9.64 | 1000 | 9.55 | 1010 |
| 90 | 0 | 0 | 0 | 0.481 | 9.85 | 979 | 9.76 | 988 |
| 100 | 0 | 0 | 0 | 0.481 | 10.05 | 960 | 9.96 | 968 |
| 110 | 0 | 0 | 0 | 0.481 | 10.25 | 941 | 10.16 | 949 |
| 120 | 0 | 0 | 0 | 0.481 | 10.45 | 923 | 10.36 | 931 |
| 130 | 0 | 0 | 0 | 0.481 | 10.64 | 906 | 10.56 | 913 |
| 167 | 0 | 0 | 0 | 0.481 | 11.35 | 850 | 11.28 | 855 |
| 212 | 0 | 0 | 0 | 0.481 | 12.11 | 797 | 12.03 | 802 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.001 | 15.71 | 2000 | 15.71 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 13.49 | 1117 | 13.38 | 1126 |
| 30 | 0 | 0 | 0 | 0.481 | 14.18 | 1063 | 14.07 | 1071 |
| 40 | 0 | 0 | 0 | 0.481 | 14.41 | 1047 | 14.3 | 1054 |
| 50 | 0 | 0 | 0 | 0.481 | 14.63 | 1031 | 14.53 | 1038 |
| 60 | 0 | 0 | 0 | 0.481 | 14.85 | 1016 | 14.75 | 1023 |
| 70 | 0 | 0 | 0 | 0.481 | 15.07 | 1001 | 14.97 | 1008 |
| 80 | 0 | 0 | 0 | 0.481 | 15.29 | 987 | 15.19 | 993 |
| 90 | 0 | 0 | 0 | 0.481 | 15.51 | 973 | 15.41 | 979 |
| 100 | 0 | 0 | 0 | 0.481 | 15.72 | 960 | 15.63 | 966 |
| 110 | 0 | 0 | 0 | 0.481 | 15.93 | 947 | 15.84 | 953 |
| 120 | 0 | 0 | 0 | 0.481 | 16.14 | 935 | 16.05 | 940 |
| 130 | 0 | 0 | 0 | 0.481 | 16.35 | 923 | 16.27 | 928 |
| 167 | 0 | 0 | 0 | 0.481 | 17.1 | 883 | 17.03 | 887 |
| 212 | 0 | 0 | 0 | 0.481 | 17.93 | 843 | 17.85 | 846 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 100 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 |
| 175 | 1-0 | 1-1 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 |
| 200 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 |
| 100 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 |
| 125 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 |
| 175 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 |
| 200 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.115

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 |
| 125 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 150 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 |
| 175 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 |
| 200 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 |
| 225 | 1-11 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 250 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-10 | 4-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 125 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 |
| 150 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 175 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 |
| 200 | 1-6 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 |
| 225 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 |
| 250 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-9 | 3-11 | 4-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.116

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 175 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 200 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 225 | 2-4 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 |
| 250 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 |
| 275 | 3-6 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-4 | 4-6 | 4-8 | 4-10 |
| 300 | 4-1 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 |
| 325 | 4-10 | 5-0 | 5-3 | 5-6 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-9 |
| 350 | 5-7 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-7 | 7-10 |
| 375 | 6-5 | 6-9 | 7-0 | 7-3 | 7-7 | 7-10 | 8-2 | 8-5 | 8-8 | 9-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 |
| 175 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 |
| 200 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 |
| 225 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 |
| 250 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 |
| 275 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 300 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 |
| 325 | 4-11 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-8 | 6-10 |
| 350 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 | 6-11 | 7-2 | 7-5 | 7-8 | 7-11 |
| 375 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 | 8-7 | 8-10 | 9-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 |
| 225 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 250 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 275 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-10 |
| 300 | 4-8 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 |
| 325 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 |
| 350 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 |
| 375 | 7-3 | 7-6 | 7-8 | 7-10 | 8-0 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 |
| 400 | 8-3 | 8-6 | 8-8 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 |
| 425 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 | 11-3 | 11-6 |
| 450 | 10-6 | 10-9 | 11-0 | 11-3 | 11-7 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 |
| 475 | 11-8 | 12-0 | 12-3 | 12-7 | 12-11 | 13-2 | 13-6 | 13-9 | 14-1 | 14-4 |
| 500 | 12-11 | 13-3 | 13-7 | 13-11 | 14-3 | 14-7 | 14-11 | 15-3 | 15-7 | 15-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 |
| 225 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 |
| 250 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 275 | 3-11 | 4-1 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 300 | 4-8 | 4-10 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 |
| 325 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 |
| 350 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-6 | 7-8 | 7-10 |
| 375 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 |
| 400 | 8-4 | 8-7 | 8-10 | 9-0 | 9-3 | 9-5 | 9-8 | 9-10 | 10-1 | 10-3 |
| 425 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-1 | 11-4 | 11-7 |
| 450 | 10-7 | 10-10 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 | 12-6 | 12-9 | 13-0 |
| 475 | 11-10 | 12-1 | 12-5 | 12-9 | 13-0 | 13-4 | 13-7 | 13-11 | 14-2 | 14-6 |
| 500 | 13-1 | 13-5 | 13-9 | 14-1 | 14-5 | 14-9 | 15-1 | 15-5 | 15-9 | 16-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 275 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 |
| 300 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 |
| 325 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 350 | 6-9 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 |
| 375 | 7-9 | 7-11 | 8-0 | 8-2 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-11 |
| 400 | 8-10 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-2 |
| 425 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 |
| 450 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-1 | 12-4 | 12-6 | 12-8 | 12-10 |
| 475 | 12-6 | 12-8 | 12-11 | 13-1 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 | 14-4 |
| 500 | 13-10 | 14-1 | 14-4 | 14-6 | 14-9 | 15-0 | 15-2 | 15-5 | 15-8 | 15-10 |
| 525 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 | 17-3 | 17-6 |
| 550 | 16-9 | 17-0 | 17-4 | 17-7 | 17-10 | 18-1 | 18-5 | 18-8 | 18-11 | 19-2 |
| 575 | 18-4 | 18-7 | 18-11 | 19-3 | 19-6 | 19-10 | 20-1 | 20-5 | 20-8 | 21-0 |
| 600 | 19-11 | 20-3 | 20-7 | 20-11 | 21-3 | 21-7 | 21-11 | 22-2 | 22-6 | 22-10 |
| 625 | 21-8 | 22-0 | 22-4 | 22-9 | 23-1 | 23-5 | 23-9 | 24-1 | 24-5 | 24-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 |
| 275 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 |
| 300 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 |
| 325 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-7 | 6-8 | 6-9 |
| 350 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-8 | 7-10 |
| 375 | 7-10 | 8-0 | 8-1 | 8-3 | 8-4 | 8-6 | 8-7 | 8-9 | 8-10 | 8-11 |
| 400 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-9 | 9-11 | 10-1 | 10-2 |
| 425 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 | 11-6 |
| 450 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-5 | 12-7 | 12-9 | 12-11 |
| 475 | 12-7 | 12-10 | 13-0 | 13-2 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 | 14-5 |
| 500 | 13-11 | 14-2 | 14-5 | 14-8 | 14-10 | 15-1 | 15-3 | 15-6 | 15-9 | 15-11 |
| 525 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-7 | 16-10 | 17-1 | 17-4 | 17-7 |
| 550 | 16-11 | 17-2 | 17-5 | 17-9 | 18-0 | 18-3 | 18-6 | 18-9 | 19-0 | 19-3 |
| 575 | 18-6 | 18-9 | 19-1 | 19-4 | 19-8 | 19-11 | 20-3 | 20-6 | 20-10 | 21-1 |
| 600 | 20-1 | 20-5 | 20-9 | 21-1 | 21-5 | 21-9 | 22-0 | 22-4 | 22-8 | 22-11 |
| 625 | 21-10 | 22-2 | 22-6 | 22-11 | 23-3 | 23-7 | 23-11 | 24-3 | 24-7 | 24-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.119

TABLE OF CONTENTS

Span = 100 ft

| ign Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 50 | 0 | 18.5 | 0 | 1.58 | 1.98 | 1000 | 1.98 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 1.33 | 451 | 1.31 | 459 |
| 30 | 0 | 0 | 0 | 0.481 | 1.42 | 424 | 1.4 | 431 |
| 40 | 0 | 0 | 0 | 0.481 | 1.5 | 400 | 1.48 | 407 |
| 50 | 0 | 0 | 0 | 0.481 | 1.58 | 380 | 1.56 | 385 |
| 60 | 0 | 0 | 0 | 0.481 | 1.66 | 362 | 1.64 | 367 |
| 70 | 0 | 0 | 0 | 0.481 | 1.74 | 346 | 1.72 | 350 |
| 80 | 0 | 0 | 0 | 0.481 | 1.81 | 332 | 1.8 | 335 |
| 90 | 0 | 0 | 0 | 0.481 | 1.89 | 319 | 1.87 | 322 |
| 100 | 0 | 0 | 0 | 0.481 | 1.96 | 308 | 1.94 | 310 |
| 110 | 0 | 0 | 0 | 0.481 | 2.02 | 298 | 2 | 301 |
| 120 | 0 | 0 | 0 | 0.481 | 2.09 | 288 | 2.06 | 292 |
| 130 | 0 | 0 | 0 | 0.481 | 2.15 | 280 | 2.12 | 284 |
| 167 | 0 | 0 | 0 | 0.481 | 2.36 | 256 | 2.33 | 258 |
| 212 | 0 | 0 | 0 | 0.481 | 2.59 | 233 | 2.57 | 235 |

* Design Condition

Span = 200 ft

| Design Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 50 | 0 | 18.5 | 0 | 1.58 | 7.95 | 1000 | 7.95 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 7.32 | 330 | 7.29 | 332 |
| 30 | 0 | 0 | 0 | 0.481 | 7.39 | 327 | 7.37 | 328 |
| 40 | 0 | 0 | 0 | 0.481 | 7.47 | 324 | 7.45 | 325 |
| 50 | 0 | 0 | 0 | 0.481 | 7.55 | 320 | 7.53 | 321 |
| 60 | 0 | 0 | 0 | 0.481 | 7.63 | 317 | 7.6 | 318 |
| 70 | 0 | 0 | 0 | 0.481 | 7.7 | 314 | 7.68 | 315 |
| 80 | 0 | 0 | 0 | 0.481 | 7.78 | 311 | 7.76 | 312 |
| 90 | 0 | 0 | 0 | 0.481 | 7.85 | 308 | 7.84 | 309 |
| 100 | 0 | 0 | 0 | 0.481 | 7.92 | 305 | 7.91 | 306 |
| 110 | 0 | 0 | 0 | 0.481 | 8 | 303 | 7.98 | 303 |
| 120 | 0 | 0 | 0 | 0.481 | 8.07 | 300 | 8.04 | 301 |
| 130 | 0 | 0 | 0 | 0.481 | 8.14 | 298 | 8.11 | 299 |
| 167 | 0 | 0 | 0 | 0.481 | 8.38 | 289 | 8.35 | 290 |
| 212 | 0 | 0 | 0 | 0.481 | 8.66 | 280 | 8.63 | 281 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 18.03 | 1000 | 18.03 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 17.4 | 315 | 17.37 | 316 |
| 30 | 0 | 0 | 0 | 0.481 | 17.48 | 314 | 17.45 | 314 |
| 40 | 0 | 0 | 0 | 0.481 | 17.55 | 312 | 17.53 | 313 |
| 50 | 0 | 0 | 0 | 0.481 | 17.63 | 311 | 17.61 | 312 |
| 60 | 0 | 0 | 0 | 0.481 | 17.71 | 310 | 17.68 | 310 |
| 70 | 0 | 0 | 0 | 0.481 | 17.78 | 309 | 17.76 | 309 |
| 80 | 0 | 0 | 0 | 0.481 | 17.86 | 307 | 17.84 | 308 |
| 90 | 0 | 0 | 0 | 0.481 | 17.93 | 306 | 17.91 | 306 |
| 100 | 0 | 0 | 0 | 0.481 | 18 | 305 | 17.99 | 305 |
| 110 | 0 | 0 | 0 | 0.481 | 18.08 | 304 | 18.06 | 304 |
| 120 | 0 | 0 | 0 | 0.481 | 18.15 | 302 | 18.12 | 303 |
| 130 | 0 | 0 | 0 | 0.481 | 18.22 | 301 | 18.19 | 302 |
| 167 | 0 | 0 | 0 | 0.481 | 18.47 | 297 | 18.44 | 298 |
| 212 | 0 | 0 | 0 | 0.481 | 18.76 | 293 | 18.73 | 293 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 32.43 | 1000 | 32.43 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 31.8 | 310 | 31.77 | 310 |
| 30 | 0 | 0 | 0 | 0.481 | 31.88 | 309 | 31.85 | 310 |
| 40 | 0 | 0 | 0 | 0.481 | 31.95 | 309 | 31.93 | 309 |
| 50 | 0 | 0 | 0 | 0.481 | 32.03 | 308 | 32 | 308 |
| 60 | 0 | 0 | 0 | 0.481 | 32.1 | 307 | 32.08 | 308 |
| 70 | 0 | 0 | 0 | 0.481 | 32.18 | 307 | 32.16 | 307 |
| 80 | 0 | 0 | 0 | 0.481 | 32.25 | 306 | 32.23 | 306 |
| 90 | 0 | 0 | 0 | 0.481 | 32.33 | 305 | 32.31 | 306 |
| 100 | 0 | 0 | 0 | 0.481 | 32.4 | 305 | 32.39 | 305 |
| 110 | 0 | 0 | 0 | 0.481 | 32.48 | 304 | 32.45 | 304 |
| 120 | 0 | 0 | 0 | 0.481 | 32.55 | 303 | 32.52 | 304 |
| 130 | 0 | 0 | 0 | 0.481 | 32.62 | 303 | 32.59 | 303 |
| 167 | 0 | 0 | 0 | 0.481 | 32.87 | 301 | 32.84 | 301 |
| 212 | 0 | 0 | 0 | 0.481 | 33.17 | 298 | 33.14 | 298 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 51.46 | 1000 | 51.46 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 50.84 | 308 | 50.81 | 308 |
| 30 | 0 | 0 | 0 | 0.481 | 50.92 | 307 | 50.89 | 308 |
| 40 | 0 | 0 | 0 | 0.481 | 50.99 | 307 | 50.97 | 307 |
| 50 | 0 | 0 | 0 | 0.481 | 51.07 | 307 | 51.04 | 307 |
| 60 | 0 | 0 | 0 | 0.481 | 51.14 | 306 | 51.12 | 306 |
| 70 | 0 | 0 | 0 | 0.481 | 51.22 | 306 | 51.2 | 306 |
| 80 | 0 | 0 | 0 | 0.481 | 51.29 | 305 | 51.27 | 306 |
| 90 | 0 | 0 | 0 | 0.481 | 51.37 | 305 | 51.35 | 305 |
| 100 | 0 | 0 | 0 | 0.481 | 51.44 | 305 | 51.43 | 305 |
| 110 | 0 | 0 | 0 | 0.481 | 51.51 | 304 | 51.49 | 304 |
| 120 | 0 | 0 | 0 | 0.481 | 51.59 | 304 | 51.56 | 304 |
| 130 | 0 | 0 | 0 | 0.481 | 51.66 | 303 | 51.63 | 304 |
| 167 | 0 | 0 | 0 | 0.481 | 51.91 | 302 | 51.88 | 302 |
| 212 | 0 | 0 | 0 | 0.481 | 52.21 | 301 | 52.18 | 301 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 |
| 125 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 |
| 150 | 2-11 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-4 | 4-6 |
| 175 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 |
| 200 | 5-3 | 5-7 | 5-11 | 6-3 | 6-7 | 6-11 | 7-2 | 7-6 | 7-9 | 8-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 |
| 100 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 125 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 |
| 150 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 |
| 175 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 |
| 200 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 7-0 | 7-3 | 7-7 | 7-10 | 8-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.123

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 |
| 125 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 |
| 150 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 |
| 175 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 |
| 200 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 225 | 9-3 | 9-4 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 |
| 250 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 | 12-2 | 12-3 | 12-4 | 12-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 |
| 125 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 |
| 150 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 |
| 175 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 |
| 200 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 225 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-2 |
| 250 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-5 | 12-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 |
| 175 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 |
| 200 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 |
| 225 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 |
| 250 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 |
| 275 | 14-7 | 14-8 | 14-9 | 14-9 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 |
| 300 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 |
| 325 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 |
| 350 | 23-8 | 23-10 | 23-11 | 24-0 | 24-1 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 |
| 375 | 27-3 | 27-4 | 27-6 | 27-7 | 27-8 | 27-10 | 27-11 | 28-1 | 28-2 | 28-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 |
| 175 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 |
| 200 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 |
| 225 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 |
| 250 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 |
| 275 | 14-7 | 14-8 | 14-9 | 14-10 | 14-10 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 |
| 300 | 17-5 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 |
| 325 | 20-5 | 20-6 | 20-7 | 20-8 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 |
| 350 | 23-9 | 23-10 | 23-11 | 24-0 | 24-2 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 |
| 375 | 27-3 | 27-5 | 27-6 | 27-7 | 27-9 | 27-10 | 28-0 | 28-1 | 28-2 | 28-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 7-11 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 |
| 225 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 |
| 250 | 12-4 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 |
| 275 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 | 15-3 | 15-3 |
| 300 | 17-10 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 |
| 325 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-4 |
| 350 | 24-3 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-8 | 24-8 | 24-9 | 24-10 |
| 375 | 27-11 | 28-0 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 | 28-4 | 28-5 | 28-6 |
| 400 | 31-9 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-5 |
| 425 | 35-11 | 36-0 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 |
| 450 | 40-4 | 40-5 | 40-6 | 40-7 | 40-8 | 40-10 | 40-11 | 41-0 | 41-1 | 41-2 |
| 475 | 44-11 | 45-1 | 45-2 | 45-3 | 45-5 | 45-6 | 45-7 | 45-9 | 45-10 | 45-11 |
| 500 | 49-11 | 50-0 | 50-1 | 50-3 | 50-4 | 50-6 | 50-7 | 50-9 | 50-10 | 50-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 7-11 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 |
| 225 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 |
| 250 | 12-4 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 |
| 275 | 15-0 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 |
| 300 | 17-10 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 |
| 325 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 | 21-2 | 21-3 | 21-3 | 21-4 | 21-5 |
| 350 | 24-4 | 24-4 | 24-5 | 24-6 | 24-6 | 24-7 | 24-8 | 24-8 | 24-9 | 24-10 |
| 375 | 27-11 | 28-0 | 28-1 | 28-1 | 28-2 | 28-3 | 28-4 | 28-5 | 28-5 | 28-6 |
| 400 | 31-10 | 31-11 | 31-11 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 |
| 425 | 35-11 | 36-0 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 |
| 450 | 40-4 | 40-5 | 40-6 | 40-8 | 40-9 | 40-10 | 40-11 | 41-0 | 41-1 | 41-2 |
| 475 | 45-0 | 45-1 | 45-3 | 45-4 | 45-5 | 45-6 | 45-8 | 45-9 | 45-10 | 46-0 |
| 500 | 49-11 | 50-1 | 50-2 | 50-3 | 50-5 | 50-6 | 50-8 | 50-9 | 50-10 | 51-0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 |
| 275 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 |
| 300 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-5 |
| 325 | 21-4 | 21-4 | 21-4 | 21-5 | 21-5 | 21-6 | 21-6 | 21-6 | 21-7 | 21-7 |
| 350 | 24-9 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 | 24-11 | 25-0 | 25-0 | 25-1 |
| 375 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 | 28-8 | 28-8 | 28-9 | 28-9 | 28-9 |
| 400 | 32-4 | 32-5 | 32-6 | 32-6 | 32-7 | 32-7 | 32-8 | 32-8 | 32-9 | 32-10 |
| 425 | 36-7 | 36-8 | 36-8 | 36-9 | 36-10 | 36-10 | 36-11 | 37-0 | 37-0 | 37-1 |
| 450 | 41-1 | 41-1 | 41-2 | 41-3 | 41-4 | 41-4 | 41-5 | 41-6 | 41-7 | 41-7 |
| 475 | 45-10 | 45-10 | 45-11 | 46-0 | 46-1 | 46-2 | 46-3 | 46-3 | 46-4 | 46-5 |
| 500 | 50-10 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-3 | 51-4 | 51-5 | 51-6 |
| 525 | 56-1 | 56-2 | 56-3 | 56-4 | 56-5 | 56-6 | 56-7 | 56-8 | 56-9 | 56-10 |
| 550 | 61-8 | 61-9 | 61-10 | 61-11 | 62-0 | 62-1 | 62-3 | 62-4 | 62-5 | 62-6 |
| 575 | 67-6 | 67-7 | 67-8 | 67-10 | 67-11 | 68-0 | 68-1 | 68-3 | 68-4 | 68-5 |
| 600 | 73-7 | 73-9 | 73-10 | 73-11 | 74-1 | 74-2 | 74-3 | 74-5 | 74-6 | 74-7 |
| 625 | 80-0 | 80-1 | 80-3 | 80-4 | 80-6 | 80-7 | 80-9 | 80-10 | 81-0 | 81-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 |
| 275 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 |
| 300 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-5 |
| 325 | 21-4 | 21-4 | 21-5 | 21-5 | 21-5 | 21-6 | 21-6 | 21-6 | 21-7 | 21-7 |
| 350 | 24-9 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 | 25-0 | 25-0 | 25-0 | 25-1 |
| 375 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 | 28-8 | 28-8 | 28-9 | 28-9 | 28-10 |
| 400 | 32-5 | 32-5 | 32-6 | 32-6 | 32-7 | 32-7 | 32-8 | 32-9 | 32-9 | 32-10 |
| 425 | 36-7 | 36-8 | 36-8 | 36-9 | 36-10 | 36-10 | 36-11 | 37-0 | 37-0 | 37-1 |
| 450 | 41-1 | 41-2 | 41-2 | 41-3 | 41-4 | 41-5 | 41-5 | 41-6 | 41-7 | 41-7 |
| 475 | 45-10 | 45-11 | 46-0 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-4 | 46-5 |
| 500 | 50-10 | 50-11 | 51-0 | 51-1 | 51-2 | 51-3 | 51-3 | 51-4 | 51-5 | 51-6 |
| 525 | 56-2 | 56-3 | 56-4 | 56-5 | 56-6 | 56-7 | 56-8 | 56-9 | 56-10 | 56-10 |
| 550 | 61-8 | 61-9 | 61-11 | 62-0 | 62-1 | 62-2 | 62-3 | 62-4 | 62-5 | 62-6 |
| 575 | 67-6 | 67-8 | 67-9 | 67-10 | 67-11 | 68-0 | 68-2 | 68-3 | 68-4 | 68-5 |
| 600 | 73-8 | 73-9 | 73-10 | 74-0 | 74-1 | 74-2 | 74-4 | 74-5 | 74-6 | 74-8 |
| 625 | 80-0 | 80-2 | 80-3 | 80-5 | 80-6 | 80-8 | 80-9 | 80-11 | 81-0 | 81-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 1.32 | 1500 | 1.32 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 0.49 | 1230 | 0.48 | 1243 |
| 30 | 0 | 0 | 0 | 0.481 | 0.54 | 1121 | 0.53 | 1138 |
| 40 | 0 | 0 | 0 | 0.481 | 0.59 | 1018 | 0.58 | 1038 |
| 50 | 0 | 0 | 0 | 0.481 | 0.65 | 921 | 0.64 | 943 |
| 60 | 0 | 0 | 0 | 0.481 | 0.72 | 832 | 0.7 | 855 |
| 70 | 0 | 0 | 0 | 0.481 | 0.8 | 753 | 0.78 | 774 |
| 80 | 0 | 0 | 0 | 0.481 | 0.88 | 683 | 0.86 | 702 |
| 90 | 0 | 0 | 0 | 0.481 | 0.97 | 622 | 0.94 | 639 |
| 100 | 0 | 0 | 0 | 0.481 | 1.05 | 570 | 1.03 | 585 |
| 110 | 0 | 0 | 0 | 0.481 | 1.14 | 526 | 1.12 | 538 |
| 120 | 0 | 0 | 0 | 0.481 | 1.23 | 488 | 1.21 | 498 |
| 130 | 0 | 0 | 0 | 0.481 | 1.32 | 456 | 1.29 | 467 |
| 167 | 0 | 0 | 0 | 0.481 | 1.6 | 376 | 1.56 | 386 |
| 212 | 0 | 0 | 0 | 0.481 | 1.91 | 316 | 1.86 | 323 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 5.28 | 1500 | 5.28 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 4.02 | 599 | 3.97 | 607 |
| 30 | 0 | 0 | 0 | 0.481 | 4.15 | 581 | 4.09 | 588 |
| 40 | 0 | 0 | 0 | 0.481 | 4.27 | 564 | 4.22 | 571 |
| 50 | 0 | 0 | 0 | 0.481 | 4.39 | 549 | 4.34 | 555 |
| 60 | 0 | 0 | 0 | 0.481 | 4.51 | 535 | 4.46 | 540 |
| 70 | 0 | 0 | 0 | 0.481 | 4.62 | 521 | 4.58 | 526 |
| 80 | 0 | 0 | 0 | 0.481 | 4.74 | 509 | 4.7 | 513 |
| 90 | 0 | 0 | 0 | 0.481 | 4.85 | 497 | 4.81 | 501 |
| 100 | 0 | 0 | 0 | 0.481 | 4.96 | 486 | 4.93 | 489 |
| 110 | 0 | 0 | 0 | 0.481 | 5.07 | 476 | 5.04 | 479 |
| 120 | 0 | 0 | 0 | 0.481 | 5.18 | 466 | 5.15 | 469 |
| 130 | 0 | 0 | 0 | 0.481 | 5.28 | 457 | 5.24 | 460 |
| 167 | 0 | 0 | 0 | 0.481 | 5.63 | 428 | 5.58 | 432 |
| 212 | 0 | 0 | 0 | 0.481 | 6.03 | 400 | 5.98 | 404 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 11.92 | 1500 | 11.92 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 10.67 | 510 | 10.61 | 512 |
| 30 | 0 | 0 | 0 | 0.481 | 10.79 | 504 | 10.74 | 507 |
| 40 | 0 | 0 | 0 | 0.481 | 10.91 | 499 | 10.86 | 501 |
| 50 | 0 | 0 | 0 | 0.481 | 11.03 | 493 | 10.98 | 496 |
| 60 | 0 | 0 | 0 | 0.481 | 11.14 | 488 | 11.09 | 490 |
| 70 | 0 | 0 | 0 | 0.481 | 11.26 | 483 | 11.21 | 485 |
| 80 | 0 | 0 | 0 | 0.481 | 11.37 | 479 | 11.33 | 480 |
| 90 | 0 | 0 | 0 | 0.481 | 11.48 | 474 | 11.44 | 476 |
| 100 | 0 | 0 | 0 | 0.481 | 11.59 | 469 | 11.56 | 471 |
| 110 | 0 | 0 | 0 | 0.481 | 11.71 | 465 | 11.67 | 466 |
| 120 | 0 | 0 | 0 | 0.481 | 11.82 | 461 | 11.78 | 462 |
| 130 | 0 | 0 | 0 | 0.481 | 11.92 | 457 | 11.88 | 458 |
| 167 | 0 | 0 | 0 | 0.481 | 12.3 | 443 | 12.24 | 445 |
| 212 | 0 | 0 | 0 | 0.481 | 12.72 | 428 | 12.67 | 430 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 21.3 | 1500 | 21.3 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 20.06 | 484 | 20 | 486 |
| 30 | 0 | 0 | 0 | 0.481 | 20.18 | 482 | 20.12 | 483 |
| 40 | 0 | 0 | 0 | 0.481 | 20.29 | 479 | 20.24 | 480 |
| 50 | 0 | 0 | 0 | 0.481 | 20.41 | 476 | 20.35 | 478 |
| 60 | 0 | 0 | 0 | 0.481 | 20.52 | 474 | 20.47 | 475 |
| 70 | 0 | 0 | 0 | 0.481 | 20.63 | 471 | 20.59 | 472 |
| 80 | 0 | 0 | 0 | 0.481 | 20.75 | 469 | 20.7 | 470 |
| 90 | 0 | 0 | 0 | 0.481 | 20.86 | 466 | 20.82 | 467 |
| 100 | 0 | 0 | 0 | 0.481 | 20.97 | 464 | 20.93 | 465 |
| 110 | 0 | 0 | 0 | 0.481 | 21.08 | 461 | 21.05 | 462 |
| 120 | 0 | 0 | 0 | 0.481 | 21.19 | 459 | 21.16 | 460 |
| 130 | 0 | 0 | 0 | 0.481 | 21.3 | 457 | 21.26 | 458 |
| 167 | 0 | 0 | 0 | 0.481 | 21.68 | 449 | 21.63 | 450 |
| 212 | 0 | 0 | 0 | 0.481 | 22.13 | 440 | 22.07 | 441 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 33.5 | 1500 | 33.5 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 32.26 | 474 | 32.21 | 474 |
| 30 | 0 | 0 | 0 | 0.481 | 32.38 | 472 | 32.32 | 473 |
| 40 | 0 | 0 | 0 | 0.481 | 32.49 | 470 | 32.44 | 471 |
| 50 | 0 | 0 | 0 | 0.481 | 32.61 | 469 | 32.56 | 470 |
| 60 | 0 | 0 | 0 | 0.481 | 32.72 | 467 | 32.67 | 468 |
| 70 | 0 | 0 | 0 | 0.481 | 32.83 | 466 | 32.79 | 466 |
| 80 | 0 | 0 | 0 | 0.481 | 32.95 | 464 | 32.9 | 465 |
| 90 | 0 | 0 | 0 | 0.481 | 33.06 | 463 | 33.02 | 463 |
| 100 | 0 | 0 | 0 | 0.481 | 33.17 | 461 | 33.13 | 462 |
| 110 | 0 | 0 | 0 | 0.481 | 33.28 | 460 | 33.25 | 460 |
| 120 | 0 | 0 | 0 | 0.481 | 33.39 | 458 | 33.36 | 459 |
| 130 | 0 | 0 | 0 | 0.481 | 33.5 | 457 | 33.46 | 457 |
| 167 | 0 | 0 | 0 | 0.481 | 33.89 | 452 | 33.83 | 452 |
| 212 | 0 | 0 | 0 | 0.481 | 34.34 | 446 | 34.28 | 447 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 100 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 150 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 |
| 175 | 1-6 | 1-7 | 1-9 | 1-11 | 2-2 | 2-5 | 2-7 | 2-11 | 3-2 | 3-5 |
| 200 | 1-11 | 2-1 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 | 4-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 125 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 150 | 1-1 | 1-2 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 |
| 175 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 3-0 | 3-3 | 3-6 |
| 200 | 1-11 | 2-2 | 2-4 | 2-7 | 2-11 | 3-2 | 3-6 | 3-10 | 4-3 | 4-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 |
| 175 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 200 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 |
| 225 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-5 |
| 250 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 |
| 125 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 |
| 175 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 |
| 200 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 |
| 225 | 5-1 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 |
| 250 | 6-3 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 |
| 175 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 |
| 200 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 |
| 225 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 |
| 250 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 |
| 275 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-10 |
| 300 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 |
| 325 | 12-6 | 12-7 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 |
| 350 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 |
| 375 | 16-7 | 16-9 | 17-0 | 17-2 | 17-4 | 17-6 | 17-9 | 17-11 | 18-1 | 18-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 |
| 175 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 |
| 200 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 |
| 225 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 |
| 250 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-1 |
| 275 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 | 9-9 | 9-10 |
| 300 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 |
| 325 | 12-6 | 12-8 | 12-10 | 12-11 | 13-1 | 13-3 | 13-4 | 13-6 | 13-7 | 13-9 |
| 350 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 15-11 |
| 375 | 16-8 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 | 17-9 | 18-0 | 18-2 | 18-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.133

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 |
| 225 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 |
| 250 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 |
| 275 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 9-11 |
| 300 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-10 |
| 325 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 |
| 350 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 |
| 375 | 17-7 | 17-8 | 17-9 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-5 | 18-6 |
| 400 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-8 | 20-10 | 20-11 | 21-1 |
| 425 | 22-7 | 22-9 | 22-10 | 23-0 | 23-1 | 23-3 | 23-5 | 23-6 | 23-8 | 23-9 |
| 450 | 25-4 | 25-6 | 25-8 | 25-9 | 25-11 | 26-1 | 26-3 | 26-4 | 26-6 | 26-8 |
| 475 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 | 29-9 |
| 500 | 31-4 | 31-6 | 31-8 | 31-10 | 32-1 | 32-3 | 32-5 | 32-7 | 32-9 | 32-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 |
| 225 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 |
| 250 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 |
| 275 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 9-11 |
| 300 | 11-3 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 |
| 325 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 |
| 350 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 |
| 375 | 17-7 | 17-9 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 |
| 400 | 20-1 | 20-2 | 20-3 | 20-5 | 20-6 | 20-8 | 20-9 | 20-10 | 21-0 | 21-1 |
| 425 | 22-8 | 22-9 | 22-11 | 23-1 | 23-2 | 23-4 | 23-5 | 23-7 | 23-8 | 23-10 |
| 450 | 25-5 | 25-7 | 25-8 | 25-10 | 26-0 | 26-2 | 26-3 | 26-5 | 26-7 | 26-9 |
| 475 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-4 | 29-5 | 29-7 | 29-9 |
| 500 | 31-5 | 31-7 | 31-9 | 31-11 | 32-1 | 32-4 | 32-6 | 32-8 | 32-10 | 33-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 |
| 275 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 |
| 300 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 |
| 325 | 13-7 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 14-0 |
| 350 | 15-9 | 15-10 | 15-10 | 15-11 | 16-0 | 16-0 | 16-1 | 16-2 | 16-2 | 16-3 |
| 375 | 18-1 | 18-2 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 | 18-6 | 18-7 | 18-8 |
| 400 | 20-7 | 20-8 | 20-9 | 20-10 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 |
| 425 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 |
| 450 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-9 | 26-10 | 26-11 |
| 475 | 29-1 | 29-2 | 29-3 | 29-4 | 29-6 | 29-7 | 29-8 | 29-9 | 29-11 | 30-0 |
| 500 | 32-2 | 32-4 | 32-5 | 32-7 | 32-8 | 32-9 | 32-11 | 33-0 | 33-2 | 33-3 |
| 525 | 35-6 | 35-8 | 35-9 | 35-11 | 36-0 | 36-2 | 36-4 | 36-5 | 36-7 | 36-8 |
| 550 | 39-0 | 39-2 | 39-4 | 39-5 | 39-7 | 39-9 | 39-10 | 40-0 | 40-2 | 40-3 |
| 575 | 42-8 | 42-10 | 43-0 | 43-2 | 43-3 | 43-5 | 43-7 | 43-9 | 43-11 | 44-1 |
| 600 | 46-6 | 46-8 | 46-10 | 47-0 | 47-2 | 47-4 | 47-6 | 47-8 | 47-10 | 48-0 |
| 625 | 50-6 | 50-8 | 50-10 | 51-0 | 51-3 | 51-5 | 51-7 | 51-9 | 51-11 | 52-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 |
| 275 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 |
| 300 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 |
| 325 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-0 |
| 350 | 15-9 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 |
| 375 | 18-1 | 18-2 | 18-3 | 18-4 | 18-4 | 18-5 | 18-6 | 18-7 | 18-7 | 18-8 |
| 400 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 | 21-1 | 21-2 | 21-3 |
| 425 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 |
| 450 | 26-1 | 26-2 | 26-3 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 |
| 475 | 29-1 | 29-2 | 29-4 | 29-5 | 29-6 | 29-7 | 29-9 | 29-10 | 29-11 | 30-0 |
| 500 | 32-3 | 32-5 | 32-6 | 32-7 | 32-9 | 32-10 | 32-11 | 33-1 | 33-2 | 33-3 |
| 525 | 35-7 | 35-9 | 35-10 | 36-0 | 36-1 | 36-3 | 36-4 | 36-6 | 36-7 | 36-9 |
| 550 | 39-1 | 39-3 | 39-4 | 39-6 | 39-8 | 39-9 | 39-11 | 40-1 | 40-2 | 40-4 |
| 575 | 42-9 | 42-11 | 43-1 | 43-2 | 43-4 | 43-6 | 43-8 | 43-10 | 43-11 | 44-1 |
| 600 | 46-7 | 46-9 | 46-11 | 47-1 | 47-3 | 47-5 | 47-7 | 47-9 | 47-11 | 48-1 |
| 625 | 50-7 | 50-9 | 50-11 | 51-1 | 51-3 | 51-6 | 51-8 | 51-10 | 52-0 | 52-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 0.99 | 1990 | 0.99 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 0.3 | 1987 | 0.3 | 1996 |
| 30 | 0 | 0 | 0 | 0.481 | 0.32 | 1862 | 0.32 | 1880 |
| 40 | 0 | 0 | 0 | 0.481 | 0.35 | 1738 | 0.34 | 1765 |
| 50 | 0 | 0 | 0 | 0.481 | 0.37 | 1616 | 0.36 | 1649 |
| 60 | 0 | 0 | 0 | 0.481 | 0.4 | 1495 | 0.39 | 1535 |
| 70 | 0 | 0 | 0 | 0.481 | 0.44 | 1377 | 0.42 | 1421 |
| 80 | 0 | 0 | 0 | 0.481 | 0.48 | 1263 | 0.46 | 1310 |
| 90 | 0 | 0 | 0 | 0.481 | 0.52 | 1152 | 0.5 | 1201 |
| 100 | 0 | 0 | 0 | 0.481 | 0.57 | 1047 | 0.55 | 1095 |
| 110 | 0 | 0 | 0 | 0.481 | 0.63 | 948 | 0.6 | 995 |
| 120 | 0 | 0 | 0 | 0.481 | 0.7 | 857 | 0.67 | 901 |
| 130 | 0 | 0 | 0 | 0.481 | 0.78 | 775 | 0.74 | 815 |
| 167 | 0 | 0 | 0 | 0.481 | 1.08 | 558 | 1.02 | 590 |
| 212 | 0 | 0 | 0 | 0.481 | 1.42 | 423 | 1.36 | 443 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 3.96 | 2000 | 3.96 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 2.1 | 1148 | 2.05 | 1176 |
| 30 | 0 | 0 | 0 | 0.481 | 2.23 | 1080 | 2.17 | 1108 |
| 40 | 0 | 0 | 0 | 0.481 | 2.36 | 1018 | 2.3 | 1045 |
| 50 | 0 | 0 | 0 | 0.481 | 2.5 | 962 | 2.44 | 987 |
| 60 | 0 | 0 | 0 | 0.481 | 2.64 | 911 | 2.58 | 934 |
| 70 | 0 | 0 | 0 | 0.481 | 2.78 | 865 | 2.72 | 886 |
| 80 | 0 | 0 | 0 | 0.481 | 2.92 | 823 | 2.86 | 843 |
| 90 | 0 | 0 | 0 | 0.481 | 3.06 | 786 | 3 | 803 |
| 100 | 0 | 0 | 0 | 0.481 | 3.2 | 751 | 3.14 | 767 |
| 110 | 0 | 0 | 0 | 0.481 | 3.34 | 721 | 3.28 | 734 |
| 120 | 0 | 0 | 0 | 0.481 | 3.48 | 692 | 3.42 | 705 |
| 130 | 0 | 0 | 0 | 0.481 | 3.61 | 667 | 3.55 | 678 |
| 167 | 0 | 0 | 0 | 0.481 | 4.08 | 591 | 4 | 602 |
| 212 | 0 | 0 | 0 | 0.481 | 4.56 | 528 | 4.49 | 537 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 8.92 | 2000 | 8.92 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 6.85 | 792 | 6.75 | 803 |
| 30 | 0 | 0 | 0 | 0.481 | 7.01 | 773 | 6.92 | 784 |
| 40 | 0 | 0 | 0 | 0.481 | 7.18 | 756 | 7.08 | 766 |
| 50 | 0 | 0 | 0 | 0.481 | 7.34 | 739 | 7.25 | 748 |
| 60 | 0 | 0 | 0 | 0.481 | 7.49 | 724 | 7.41 | 732 |
| 70 | 0 | 0 | 0 | 0.481 | 7.65 | 709 | 7.57 | 717 |
| 80 | 0 | 0 | 0 | 0.481 | 7.8 | 695 | 7.72 | 703 |
| 90 | 0 | 0 | 0 | 0.481 | 7.96 | 682 | 7.88 | 689 |
| 100 | 0 | 0 | 0 | 0.481 | 8.11 | 669 | 8.03 | 676 |
| 110 | 0 | 0 | 0 | 0.481 | 8.25 | 658 | 8.18 | 663 |
| 120 | 0 | 0 | 0 | 0.481 | 8.4 | 646 | 8.33 | 651 |
| 130 | 0 | 0 | 0 | 0.481 | 8.54 | 635 | 8.48 | 640 |
| 167 | 0 | 0 | 0 | 0.481 | 9.05 | 600 | 8.97 | 605 |
| 212 | 0 | 0 | 0 | 0.481 | 9.6 | 566 | 9.52 | 571 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 15.9 | 2000 | 15.9 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 13.83 | 699 | 13.73 | 704 |
| 30 | 0 | 0 | 0 | 0.481 | 13.99 | 691 | 13.89 | 696 |
| 40 | 0 | 0 | 0 | 0.481 | 14.15 | 683 | 14.05 | 688 |
| 50 | 0 | 0 | 0 | 0.481 | 14.3 | 676 | 14.21 | 680 |
| 60 | 0 | 0 | 0 | 0.481 | 14.46 | 669 | 14.37 | 673 |
| 70 | 0 | 0 | 0 | 0.481 | 14.61 | 662 | 14.53 | 666 |
| 80 | 0 | 0 | 0 | 0.481 | 14.77 | 655 | 14.68 | 659 |
| 90 | 0 | 0 | 0 | 0.481 | 14.92 | 648 | 14.84 | 652 |
| 100 | 0 | 0 | 0 | 0.481 | 15.07 | 642 | 14.99 | 645 |
| 110 | 0 | 0 | 0 | 0.481 | 15.22 | 636 | 15.15 | 639 |
| 120 | 0 | 0 | 0 | 0.481 | 15.37 | 630 | 15.3 | 633 |
| 130 | 0 | 0 | 0 | 0.481 | 15.51 | 624 | 15.45 | 626 |
| 167 | 0 | 0 | 0 | 0.481 | 16.04 | 604 | 15.95 | 607 |
| 212 | 0 | 0 | 0 | 0.481 | 16.61 | 583 | 16.53 | 586 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.58 | 24.93 | 2000 | 24.93 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 22.87 | 663 | 22.77 | 666 |
| 30 | 0 | 0 | 0 | 0.481 | 23.02 | 658 | 22.93 | 661 |
| 40 | 0 | 0 | 0 | 0.481 | 23.18 | 654 | 23.08 | 657 |
| 50 | 0 | 0 | 0 | 0.481 | 23.33 | 650 | 23.24 | 652 |
| 60 | 0 | 0 | 0 | 0.481 | 23.49 | 646 | 23.4 | 648 |
| 70 | 0 | 0 | 0 | 0.481 | 23.64 | 641 | 23.55 | 644 |
| 80 | 0 | 0 | 0 | 0.481 | 23.79 | 637 | 23.71 | 640 |
| 90 | 0 | 0 | 0 | 0.481 | 23.94 | 634 | 23.86 | 636 |
| 100 | 0 | 0 | 0 | 0.481 | 24.1 | 630 | 24.02 | 632 |
| 110 | 0 | 0 | 0 | 0.481 | 24.24 | 626 | 24.17 | 628 |
| 120 | 0 | 0 | 0 | 0.481 | 24.39 | 622 | 24.32 | 624 |
| 130 | 0 | 0 | 0 | 0.481 | 24.54 | 618 | 24.47 | 620 |
| 167 | 0 | 0 | 0 | 0.481 | 25.07 | 606 | 24.98 | 608 |
| 212 | 0 | 0 | 0 | 0.481 | 25.66 | 592 | 25.57 | 594 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-2 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 |
| 100 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 125 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 |
| 150 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-2 | 1-3 | 1-4 |
| 175 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 |
| 200 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-2 | 0-2 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 |
| 100 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 |
| 125 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 |
| 150 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 |
| 175 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 |
| 200 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 |
| 125 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 |
| 150 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 175 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 |
| 200 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-3 |
| 225 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 |
| 250 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 125 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 |
| 150 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 175 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 |
| 200 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 |
| 225 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 |
| 250 | 3-3 | 3-6 | 3-8 | 3-11 | 4-2 | 4-4 | 4-7 | 4-9 | 5-0 | 5-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 |
| 175 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 200 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 |
| 225 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 250 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 |
| 275 | 5-8 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 |
| 300 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-0 | 8-2 |
| 325 | 7-11 | 8-1 | 8-4 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 |
| 350 | 9-2 | 9-5 | 9-8 | 9-10 | 10-1 | 10-4 | 10-6 | 10-9 | 10-11 | 11-2 |
| 375 | 10-7 | 10-10 | 11-1 | 11-4 | 11-7 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 |
| 175 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 |
| 200 | 3-1 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 |
| 225 | 3-10 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 250 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 |
| 275 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 |
| 300 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 7-11 | 8-1 | 8-3 |
| 325 | 8-0 | 8-3 | 8-5 | 8-7 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 |
| 350 | 9-4 | 9-7 | 9-9 | 10-0 | 10-2 | 10-5 | 10-8 | 10-10 | 11-0 | 11-3 |
| 375 | 10-8 | 11-0 | 11-3 | 11-6 | 11-9 | 12-0 | 12-2 | 12-5 | 12-8 | 12-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 |
| 225 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 |
| 250 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 |
| 275 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 |
| 300 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 |
| 325 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-11 | 10-0 |
| 350 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 |
| 375 | 12-1 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 |
| 400 | 13-9 | 13-11 | 14-1 | 14-3 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 |
| 425 | 15-6 | 15-8 | 15-10 | 16-1 | 16-3 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 |
| 450 | 17-5 | 17-7 | 17-9 | 18-0 | 18-2 | 18-5 | 18-7 | 18-9 | 19-0 | 19-2 |
| 475 | 19-4 | 19-7 | 19-10 | 20-1 | 20-3 | 20-6 | 20-9 | 20-11 | 21-2 | 21-4 |
| 500 | 21-6 | 21-9 | 22-0 | 22-3 | 22-6 | 22-9 | 23-0 | 23-3 | 23-5 | 23-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 |
| 225 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 |
| 250 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 |
| 275 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 |
| 300 | 7-9 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 325 | 9-1 | 9-3 | 9-4 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 350 | 10-7 | 10-8 | 10-10 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-8 |
| 375 | 12-2 | 12-3 | 12-5 | 12-7 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 | 13-4 |
| 400 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 |
| 425 | 15-7 | 15-10 | 16-0 | 16-2 | 16-4 | 16-6 | 16-8 | 16-10 | 17-0 | 17-2 |
| 450 | 17-6 | 17-9 | 17-11 | 18-1 | 18-4 | 18-6 | 18-8 | 18-11 | 19-1 | 19-3 |
| 475 | 19-6 | 19-9 | 20-0 | 20-2 | 20-5 | 20-7 | 20-10 | 21-1 | 21-3 | 21-6 |
| 500 | 21-7 | 21-10 | 22-1 | 22-4 | 22-7 | 22-10 | 23-1 | 23-4 | 23-7 | 23-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 |
| 275 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 |
| 300 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 |
| 325 | 9-7 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-2 |
| 350 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 |
| 375 | 12-9 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 |
| 400 | 14-7 | 14-8 | 14-9 | 14-10 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 |
| 425 | 16-5 | 16-7 | 16-8 | 16-9 | 16-11 | 17-0 | 17-1 | 17-3 | 17-4 | 17-5 |
| 450 | 18-5 | 18-7 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 | 19-4 | 19-5 | 19-7 |
| 475 | 20-7 | 20-8 | 20-10 | 21-0 | 21-1 | 21-3 | 21-5 | 21-6 | 21-8 | 21-10 |
| 500 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 | 23-10 | 24-0 | 24-2 |
| 525 | 25-1 | 25-3 | 25-5 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 |
| 550 | 27-7 | 27-9 | 27-11 | 28-2 | 28-4 | 28-6 | 28-8 | 28-11 | 29-1 | 29-3 |
| 575 | 30-2 | 30-4 | 30-7 | 30-9 | 31-0 | 31-2 | 31-5 | 31-7 | 31-10 | 32-0 |
| 600 | 32-10 | 33-1 | 33-3 | 33-6 | 33-9 | 34-0 | 34-2 | 34-5 | 34-8 | 34-10 |
| 625 | 35-8 | 35-11 | 36-2 | 36-4 | 36-7 | 36-10 | 37-1 | 37-4 | 37-7 | 37-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 |
| 275 | 6-11 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 |
| 300 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 |
| 325 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-3 |
| 350 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 |
| 375 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 |
| 400 | 14-7 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 | 15-6 |
| 425 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-1 | 17-2 | 17-3 | 17-5 | 17-6 |
| 450 | 18-6 | 18-8 | 18-9 | 18-11 | 19-0 | 19-2 | 19-3 | 19-5 | 19-6 | 19-8 |
| 475 | 20-8 | 20-9 | 20-11 | 21-1 | 21-2 | 21-4 | 21-6 | 21-7 | 21-9 | 21-10 |
| 500 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 | 23-10 | 23-11 | 24-1 | 24-3 |
| 525 | 25-3 | 25-5 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 | 26-7 | 26-9 |
| 550 | 27-8 | 27-11 | 28-1 | 28-3 | 28-5 | 28-7 | 28-10 | 29-0 | 29-2 | 29-4 |
| 575 | 30-3 | 30-6 | 30-8 | 30-11 | 31-1 | 31-4 | 31-6 | 31-8 | 31-11 | 32-1 |
| 600 | 33-0 | 33-2 | 33-5 | 33-8 | 33-10 | 34-1 | 34-4 | 34-6 | 34-9 | 35-0 |
| 625 | 35-9 | 36-0 | 36-3 | 36-6 | 36-9 | 37-0 | 37-3 | 37-6 | 37-9 | 37-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 20 | 0 | 18.5 | 0 | 1.58 | 1.98 | 1000 | 1.98 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 1.42 | 424 | 1.39 | 432 |
| 30 | 0 | 0 | 0 | 0.481 | 1.66 | 362 | 1.64 | 367 |
| 40 | 0 | 0 | 0 | 0.481 | 1.74 | 346 | 1.72 | 351 |
| 50 | 0 | 0 | 0 | 0.481 | 1.81 | 332 | 1.79 | 336 |
| 60 | 0 | 0 | 0 | 0.481 | 1.89 | 319 | 1.87 | 323 |
| 70 | 0 | 0 | 0 | 0.481 | 1.96 | 308 | 1.94 | 311 |
| 80 | 0 | 0 | 0 | 0.481 | 2.02 | 298 | 2.01 | 300 |
| 90 | 0 | 0 | 0 | 0.481 | 2.09 | 288 | 2.08 | 290 |
| 100 | 0 | 0 | 0 | 0.481 | 2.16 | 279 | 2.14 | 281 |
| 110 | 0 | 0 | 0 | 0.481 | 2.22 | 271 | 2.2 | 274 |
| 120 | 0 | 0 | 0 | 0.481 | 2.28 | 264 | 2.25 | 267 |
| 130 | 0 | 0 | 0 | 0.481 | 2.34 | 258 | 2.31 | 261 |
| 167 | 0 | 0 | 0 | 0.481 | 2.53 | 238 | 2.51 | 241 |
| 212 | 0 | 0 | 0 | 0.481 | 2.75 | 219 | 2.73 | 221 |

* Design Condition

Span = 200 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 20 | 0 | 18.5 | 0 | 1.58 | 7.95 | 1000 | 7.95 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 7.39 | 327 | 7.36 | 328 |
| 30 | 0 | 0 | 0 | 0.481 | 7.63 | 317 | 7.6 | 318 |
| 40 | 0 | 0 | 0 | 0.481 | 7.7 | 314 | 7.68 | 315 |
| 50 | 0 | 0 | 0 | 0.481 | 7.78 | 311 | 7.75 | 312 |
| 60 | 0 | 0 | 0 | 0.481 | 7.85 | 308 | 7.83 | 309 |
| 70 | 0 | 0 | 0 | 0.481 | 7.92 | 305 | 7.91 | 306 |
| 80 | 0 | 0 | 0 | 0.481 | 8 | 303 | 7.98 | 303 |
| 90 | 0 | 0 | 0 | 0.481 | 8.07 | 300 | 8.06 | 300 |
| 100 | 0 | 0 | 0 | 0.481 | 8.14 | 297 | 8.13 | 298 |
| 110 | 0 | 0 | 0 | 0.481 | 8.21 | 295 | 8.19 | 296 |
| 120 | 0 | 0 | 0 | 0.481 | 8.28 | 292 | 8.26 | 293 |
| 130 | 0 | 0 | 0 | 0.481 | 8.35 | 290 | 8.32 | 291 |
| 167 | 0 | 0 | 0 | 0.481 | 8.58 | 282 | 8.55 | 283 |
| 212 | 0 | 0 | 0 | 0.481 | 8.86 | 274 | 8.83 | 274 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 18.03 | 1000 | 18.03 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 17.48 | 314 | 17.45 | 314 |
| 30 | 0 | 0 | 0 | 0.481 | 17.71 | 310 | 17.68 | 310 |
| 40 | 0 | 0 | 0 | 0.481 | 17.78 | 309 | 17.76 | 309 |
| 50 | 0 | 0 | 0 | 0.481 | 17.86 | 307 | 17.83 | 308 |
| 60 | 0 | 0 | 0 | 0.481 | 17.93 | 306 | 17.91 | 306 |
| 70 | 0 | 0 | 0 | 0.481 | 18 | 305 | 17.99 | 305 |
| 80 | 0 | 0 | 0 | 0.481 | 18.08 | 304 | 18.06 | 304 |
| 90 | 0 | 0 | 0 | 0.481 | 18.15 | 302 | 18.14 | 303 |
| 100 | 0 | 0 | 0 | 0.481 | 18.23 | 301 | 18.21 | 302 |
| 110 | 0 | 0 | 0 | 0.481 | 18.3 | 300 | 18.28 | 300 |
| 120 | 0 | 0 | 0 | 0.481 | 18.37 | 299 | 18.35 | 299 |
| 130 | 0 | 0 | 0 | 0.481 | 18.44 | 298 | 18.41 | 298 |
| 167 | 0 | 0 | 0 | 0.481 | 18.68 | 294 | 18.65 | 295 |
| 212 | 0 | 0 | 0 | 0.481 | 18.97 | 290 | 18.95 | 290 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 32.43 | 1000 | 32.43 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 31.88 | 309 | 31.85 | 310 |
| 30 | 0 | 0 | 0 | 0.481 | 32.1 | 307 | 32.08 | 308 |
| 40 | 0 | 0 | 0 | 0.481 | 32.18 | 307 | 32.15 | 307 |
| 50 | 0 | 0 | 0 | 0.481 | 32.25 | 306 | 32.23 | 306 |
| 60 | 0 | 0 | 0 | 0.481 | 32.33 | 305 | 32.31 | 306 |
| 70 | 0 | 0 | 0 | 0.481 | 32.4 | 305 | 32.38 | 305 |
| 80 | 0 | 0 | 0 | 0.481 | 32.48 | 304 | 32.46 | 304 |
| 90 | 0 | 0 | 0 | 0.481 | 32.55 | 303 | 32.54 | 304 |
| 100 | 0 | 0 | 0 | 0.481 | 32.62 | 303 | 32.61 | 303 |
| 110 | 0 | 0 | 0 | 0.481 | 32.7 | 302 | 32.68 | 302 |
| 120 | 0 | 0 | 0 | 0.481 | 32.77 | 301 | 32.74 | 302 |
| 130 | 0 | 0 | 0 | 0.481 | 32.84 | 301 | 32.81 | 301 |
| 167 | 0 | 0 | 0 | 0.481 | 33.09 | 299 | 33.06 | 299 |
| 212 | 0 | 0 | 0 | 0.481 | 33.39 | 296 | 33.36 | 296 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 51.46 | 1000 | 51.46 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 50.92 | 307 | 50.89 | 308 |
| 30 | 0 | 0 | 0 | 0.481 | 51.14 | 306 | 51.12 | 306 |
| 40 | 0 | 0 | 0 | 0.481 | 51.22 | 306 | 51.19 | 306 |
| 50 | 0 | 0 | 0 | 0.481 | 51.29 | 305 | 51.27 | 306 |
| 60 | 0 | 0 | 0 | 0.481 | 51.37 | 305 | 51.35 | 305 |
| 70 | 0 | 0 | 0 | 0.481 | 51.44 | 305 | 51.42 | 305 |
| 80 | 0 | 0 | 0 | 0.481 | 51.51 | 304 | 51.5 | 304 |
| 90 | 0 | 0 | 0 | 0.481 | 51.59 | 304 | 51.57 | 304 |
| 100 | 0 | 0 | 0 | 0.481 | 51.66 | 303 | 51.65 | 303 |
| 110 | 0 | 0 | 0 | 0.481 | 51.74 | 303 | 51.72 | 303 |
| 120 | 0 | 0 | 0 | 0.481 | 51.81 | 303 | 51.78 | 303 |
| 130 | 0 | 0 | 0 | 0.481 | 51.88 | 302 | 51.85 | 302 |
| 167 | 0 | 0 | 0 | 0.481 | 52.13 | 301 | 52.1 | 301 |
| 212 | 0 | 0 | 0 | 0.481 | 52.43 | 299 | 52.4 | 299 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 |
| 100 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 |
| 125 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 |
| 150 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 |
| 175 | 4-9 | 5-0 | 5-3 | 5-6 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 |
| 200 | 6-3 | 6-7 | 6-10 | 7-2 | 7-6 | 7-9 | 8-1 | 8-4 | 8-7 | 8-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 |
| 100 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 125 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 |
| 150 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 5-0 |
| 175 | 4-10 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-10 |
| 200 | 6-4 | 6-8 | 7-0 | 7-3 | 7-7 | 7-10 | 8-1 | 8-5 | 8-8 | 8-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-11 | 1-11 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 |
| 125 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 |
| 150 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 175 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 |
| 200 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-2 |
| 225 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-4 | 10-5 |
| 250 | 11-9 | 11-11 | 12-0 | 12-2 | 12-3 | 12-4 | 12-6 | 12-7 | 12-9 | 12-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-11 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 |
| 125 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 |
| 150 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 |
| 175 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 |
| 200 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 225 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 | 10-5 |
| 250 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-5 | 12-6 | 12-8 | 12-9 | 12-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-5 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-6 | 4-6 | 4-7 |
| 175 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 |
| 200 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 |
| 225 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 |
| 250 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 | 12-8 |
| 275 | 14-9 | 14-10 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 | 15-3 | 15-3 | 15-4 |
| 300 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-3 |
| 325 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 |
| 350 | 24-0 | 24-1 | 24-3 | 24-4 | 24-5 | 24-6 | 24-8 | 24-9 | 24-10 | 24-11 |
| 375 | 27-7 | 27-8 | 27-10 | 27-11 | 28-1 | 28-2 | 28-4 | 28-5 | 28-6 | 28-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-5 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-6 | 4-6 | 4-7 |
| 175 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 |
| 200 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 |
| 225 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 |
| 250 | 12-3 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 | 12-8 |
| 275 | 14-10 | 14-10 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 | 15-3 | 15-4 | 15-4 |
| 300 | 17-8 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-4 |
| 325 | 20-8 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 |
| 350 | 24-0 | 24-2 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 |
| 375 | 27-7 | 27-9 | 27-10 | 28-0 | 28-1 | 28-2 | 28-4 | 28-5 | 28-7 | 28-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 |
| 225 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-3 |
| 250 | 12-5 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 |
| 275 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 |
| 300 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 |
| 325 | 21-1 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-4 | 21-5 | 21-6 | 21-6 |
| 350 | 24-5 | 24-6 | 24-7 | 24-8 | 24-8 | 24-9 | 24-10 | 24-10 | 24-11 | 25-0 |
| 375 | 28-1 | 28-2 | 28-3 | 28-4 | 28-4 | 28-5 | 28-6 | 28-7 | 28-8 | 28-8 |
| 400 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-6 | 32-7 | 32-8 |
| 425 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 |
| 450 | 40-7 | 40-8 | 40-9 | 40-11 | 41-0 | 41-1 | 41-2 | 41-3 | 41-4 | 41-5 |
| 475 | 45-3 | 45-5 | 45-6 | 45-7 | 45-9 | 45-10 | 45-11 | 46-1 | 46-2 | 46-3 |
| 500 | 50-3 | 50-4 | 50-6 | 50-7 | 50-9 | 50-10 | 51-0 | 51-1 | 51-2 | 51-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-1 | 8-1 |
| 225 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-3 |
| 250 | 12-5 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 |
| 275 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 | 15-5 |
| 300 | 17-11 | 18-0 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 |
| 325 | 21-1 | 21-2 | 21-2 | 21-3 | 21-3 | 21-4 | 21-5 | 21-5 | 21-6 | 21-6 |
| 350 | 24-6 | 24-6 | 24-7 | 24-8 | 24-8 | 24-9 | 24-10 | 24-10 | 24-11 | 25-0 |
| 375 | 28-1 | 28-2 | 28-3 | 28-4 | 28-5 | 28-5 | 28-6 | 28-7 | 28-8 | 28-8 |
| 400 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 | 32-7 | 32-8 |
| 425 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 |
| 450 | 40-8 | 40-9 | 40-10 | 40-11 | 41-0 | 41-1 | 41-2 | 41-3 | 41-5 | 41-6 |
| 475 | 45-4 | 45-5 | 45-6 | 45-8 | 45-9 | 45-10 | 46-0 | 46-1 | 46-2 | 46-3 |
| 500 | 50-3 | 50-5 | 50-6 | 50-8 | 50-9 | 50-10 | 51-0 | 51-1 | 51-3 | 51-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS



OH821.150

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 12-8 | 12-8 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-9 | 12-10 |
| 275 | 15-4 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 | 15-5 | 15-6 | 15-6 |
| 300 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-5 | 18-5 | 18-5 | 18-5 |
| 325 | 21-5 | 21-5 | 21-6 | 21-6 | 21-6 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 |
| 350 | 24-10 | 24-10 | 24-11 | 24-11 | 25-0 | 25-0 | 25-1 | 25-1 | 25-2 | 25-2 |
| 375 | 28-6 | 28-7 | 28-8 | 28-8 | 28-9 | 28-9 | 28-10 | 28-10 | 28-11 | 28-11 |
| 400 | 32-6 | 32-7 | 32-7 | 32-8 | 32-8 | 32-9 | 32-10 | 32-10 | 32-11 | 32-11 |
| 425 | 36-9 | 36-10 | 36-10 | 36-11 | 36-11 | 37-0 | 37-1 | 37-1 | 37-2 | 37-3 |
| 450 | 41-3 | 41-4 | 41-4 | 41-5 | 41-6 | 41-7 | 41-7 | 41-8 | 41-9 | 41-9 |
| 475 | 46-0 | 46-1 | 46-2 | 46-3 | 46-3 | 46-4 | 46-5 | 46-6 | 46-7 | 46-7 |
| 500 | 51-0 | 51-1 | 51-2 | 51-3 | 51-4 | 51-5 | 51-6 | 51-7 | 51-8 | 51-9 |
| 525 | 56-4 | 56-5 | 56-6 | 56-7 | 56-8 | 56-9 | 56-10 | 56-11 | 57-0 | 57-1 |
| 550 | 61-11 | 62-0 | 62-1 | 62-3 | 62-4 | 62-5 | 62-6 | 62-7 | 62-8 | 62-9 |
| 575 | 67-10 | 67-11 | 68-0 | 68-1 | 68-2 | 68-4 | 68-5 | 68-6 | 68-7 | 68-8 |
| 600 | 73-11 | 74-1 | 74-2 | 74-3 | 74-5 | 74-6 | 74-7 | 74-9 | 74-10 | 74-11 |
| 625 | 80-4 | 80-6 | 80-7 | 80-9 | 80-10 | 81-0 | 81-1 | 81-3 | 81-4 | 81-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 12-8 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-9 | 12-9 | 12-10 |
| 275 | 15-4 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 | 15-5 | 15-6 | 15-6 |
| 300 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-5 | 18-5 | 18-5 | 18-6 |
| 325 | 21-5 | 21-5 | 21-6 | 21-6 | 21-6 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 |
| 350 | 24-10 | 24-11 | 24-11 | 25-0 | 25-0 | 25-0 | 25-1 | 25-1 | 25-2 | 25-2 |
| 375 | 28-7 | 28-7 | 28-8 | 28-8 | 28-9 | 28-9 | 28-10 | 28-10 | 28-11 | 28-11 |
| 400 | 32-6 | 32-7 | 32-7 | 32-8 | 32-9 | 32-9 | 32-10 | 32-10 | 32-11 | 32-11 |
| 425 | 36-9 | 36-10 | 36-10 | 36-11 | 37-0 | 37-0 | 37-1 | 37-2 | 37-2 | 37-3 |
| 450 | 41-3 | 41-4 | 41-5 | 41-5 | 41-6 | 41-7 | 41-7 | 41-8 | 41-9 | 41-10 |
| 475 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-4 | 46-5 | 46-6 | 46-7 | 46-8 |
| 500 | 51-1 | 51-2 | 51-3 | 51-3 | 51-4 | 51-5 | 51-6 | 51-7 | 51-8 | 51-9 |
| 525 | 56-5 | 56-6 | 56-7 | 56-8 | 56-9 | 56-10 | 56-10 | 56-11 | 57-0 | 57-1 |
| 550 | 62-0 | 62-1 | 62-2 | 62-3 | 62-4 | 62-5 | 62-6 | 62-7 | 62-8 | 62-9 |
| 575 | 67-10 | 67-11 | 68-0 | 68-2 | 68-3 | 68-4 | 68-5 | 68-6 | 68-8 | 68-9 |
| 600 | 74-0 | 74-1 | 74-2 | 74-4 | 74-5 | 74-6 | 74-8 | 74-9 | 74-10 | 74-11 |
| 625 | 80-5 | 80-6 | 80-8 | 80-9 | 80-11 | 81-0 | 81-1 | 81-3 | 81-4 | 81-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 1.32 | 1500 | 1.32 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 0.54 | 1121 | 0.53 | 1140 |
| 30 | 0 | 0 | 0 | 0.481 | 0.72 | 832 | 0.7 | 858 |
| 40 | 0 | 0 | 0 | 0.481 | 0.8 | 753 | 0.77 | 778 |
| 50 | 0 | 0 | 0 | 0.481 | 0.88 | 683 | 0.85 | 706 |
| 60 | 0 | 0 | 0 | 0.481 | 0.97 | 622 | 0.94 | 643 |
| 70 | 0 | 0 | 0 | 0.481 | 1.05 | 570 | 1.02 | 589 |
| 80 | 0 | 0 | 0 | 0.481 | 1.14 | 526 | 1.11 | 542 |
| 90 | 0 | 0 | 0 | 0.481 | 1.23 | 488 | 1.2 | 501 |
| 100 | 0 | 0 | 0 | 0.481 | 1.32 | 456 | 1.29 | 467 |
| 110 | 0 | 0 | 0 | 0.481 | 1.4 | 428 | 1.38 | 437 |
| 120 | 0 | 0 | 0 | 0.481 | 1.49 | 404 | 1.46 | 413 |
| 130 | 0 | 0 | 0 | 0.481 | 1.57 | 384 | 1.53 | 394 |
| 167 | 0 | 0 | 0 | 0.481 | 1.82 | 330 | 1.78 | 338 |
| 212 | 0 | 0 | 0 | 0.481 | 2.11 | 286 | 2.06 | 292 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 5.28 | 1500 | 5.28 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 4.15 | 581 | 4.09 | 589 |
| 30 | 0 | 0 | 0 | 0.481 | 4.51 | 535 | 4.45 | 541 |
| 40 | 0 | 0 | 0 | 0.481 | 4.62 | 521 | 4.57 | 527 |
| 50 | 0 | 0 | 0 | 0.481 | 4.74 | 509 | 4.69 | 514 |
| 60 | 0 | 0 | 0 | 0.481 | 4.85 | 497 | 4.8 | 502 |
| 70 | 0 | 0 | 0 | 0.481 | 4.96 | 486 | 4.92 | 490 |
| 80 | 0 | 0 | 0 | 0.481 | 5.07 | 476 | 5.03 | 480 |
| 90 | 0 | 0 | 0 | 0.481 | 5.18 | 466 | 5.14 | 469 |
| 100 | 0 | 0 | 0 | 0.481 | 5.28 | 457 | 5.25 | 460 |
| 110 | 0 | 0 | 0 | 0.481 | 5.39 | 448 | 5.35 | 451 |
| 120 | 0 | 0 | 0 | 0.481 | 5.49 | 440 | 5.45 | 442 |
| 130 | 0 | 0 | 0 | 0.481 | 5.59 | 432 | 5.54 | 435 |
| 167 | 0 | 0 | 0 | 0.481 | 5.92 | 408 | 5.87 | 411 |
| 212 | 0 | 0 | 0 | 0.481 | 6.3 | 383 | 6.25 | 386 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 11.92 | 1500 | 11.92 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 10.79 | 504 | 10.73 | 507 |
| 30 | 0 | 0 | 0 | 0.481 | 11.14 | 488 | 11.09 | 491 |
| 40 | 0 | 0 | 0 | 0.481 | 11.26 | 483 | 11.2 | 486 |
| 50 | 0 | 0 | 0 | 0.481 | 11.37 | 479 | 11.32 | 481 |
| 60 | 0 | 0 | 0 | 0.481 | 11.48 | 474 | 11.43 | 476 |
| 70 | 0 | 0 | 0 | 0.481 | 11.59 | 469 | 11.55 | 471 |
| 80 | 0 | 0 | 0 | 0.481 | 11.71 | 465 | 11.66 | 467 |
| 90 | 0 | 0 | 0 | 0.481 | 11.82 | 461 | 11.77 | 462 |
| 100 | 0 | 0 | 0 | 0.481 | 11.92 | 457 | 11.89 | 458 |
| 110 | 0 | 0 | 0 | 0.481 | 12.03 | 453 | 12 | 454 |
| 120 | 0 | 0 | 0 | 0.481 | 12.14 | 449 | 12.11 | 450 |
| 130 | 0 | 0 | 0 | 0.481 | 12.25 | 445 | 12.2 | 446 |
| 167 | 0 | 0 | 0 | 0.481 | 12.61 | 432 | 12.56 | 434 |
| 212 | 0 | 0 | 0 | 0.481 | 13.02 | 419 | 12.97 | 420 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 21.3 | 1500 | 21.3 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 20.18 | 482 | 20.11 | 483 |
| 30 | 0 | 0 | 0 | 0.481 | 20.52 | 474 | 20.46 | 475 |
| 40 | 0 | 0 | 0 | 0.481 | 20.63 | 471 | 20.58 | 472 |
| 50 | 0 | 0 | 0 | 0.481 | 20.75 | 469 | 20.69 | 470 |
| 60 | 0 | 0 | 0 | 0.481 | 20.86 | 466 | 20.81 | 467 |
| 70 | 0 | 0 | 0 | 0.481 | 20.97 | 464 | 20.92 | 465 |
| 80 | 0 | 0 | 0 | 0.481 | 21.08 | 461 | 21.04 | 462 |
| 90 | 0 | 0 | 0 | 0.481 | 21.19 | 459 | 21.15 | 460 |
| 100 | 0 | 0 | 0 | 0.481 | 21.3 | 457 | 21.26 | 458 |
| 110 | 0 | 0 | 0 | 0.481 | 21.41 | 454 | 21.38 | 455 |
| 120 | 0 | 0 | 0 | 0.481 | 21.52 | 452 | 21.49 | 453 |
| 130 | 0 | 0 | 0 | 0.481 | 21.63 | 450 | 21.59 | 451 |
| 167 | 0 | 0 | 0 | 0.481 | 22 | 442 | 21.95 | 444 |
| 212 | 0 | 0 | 0 | 0.481 | 22.44 | 434 | 22.39 | 435 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 33.5 | 1500 | 33.5 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 32.38 | 472 | 32.32 | 473 |
| 30 | 0 | 0 | 0 | 0.481 | 32.72 | 467 | 32.66 | 468 |
| 40 | 0 | 0 | 0 | 0.481 | 32.83 | 466 | 32.78 | 466 |
| 50 | 0 | 0 | 0 | 0.481 | 32.95 | 464 | 32.89 | 465 |
| 60 | 0 | 0 | 0 | 0.481 | 33.06 | 463 | 33.01 | 463 |
| 70 | 0 | 0 | 0 | 0.481 | 33.17 | 461 | 33.12 | 462 |
| 80 | 0 | 0 | 0 | 0.481 | 33.28 | 460 | 33.24 | 460 |
| 90 | 0 | 0 | 0 | 0.481 | 33.39 | 458 | 33.35 | 459 |
| 100 | 0 | 0 | 0 | 0.481 | 33.5 | 457 | 33.47 | 457 |
| 110 | 0 | 0 | 0 | 0.481 | 33.61 | 455 | 33.58 | 456 |
| 120 | 0 | 0 | 0 | 0.481 | 33.73 | 454 | 33.69 | 454 |
| 130 | 0 | 0 | 0 | 0.481 | 33.84 | 452 | 33.79 | 453 |
| 167 | 0 | 0 | 0 | 0.481 | 34.21 | 448 | 34.16 | 448 |
| 212 | 0 | 0 | 0 | 0.481 | 34.66 | 442 | 34.6 | 443 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 |
| 100 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 |
| 125 | 1-0 | 1-1 | 1-2 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 |
| 150 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 |
| 175 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 |
| 200 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 | 4-5 | 4-10 | 5-2 | 5-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-4 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 100 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 125 | 1-0 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-2 |
| 150 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-2 |
| 175 | 2-0 | 2-3 | 2-5 | 2-8 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-4 |
| 200 | 2-7 | 2-11 | 3-2 | 3-6 | 3-10 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 |
| 150 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 |
| 175 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 200 | 4-4 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 |
| 225 | 5-6 | 5-8 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-9 |
| 250 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 125 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 |
| 150 | 2-6 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 |
| 175 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 |
| 200 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-5 |
| 225 | 5-7 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 |
| 250 | 6-10 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 |
| 175 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 |
| 200 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 |
| 225 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 |
| 250 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 |
| 275 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 |
| 300 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-11 | 12-0 |
| 325 | 12-11 | 13-0 | 13-2 | 13-3 | 13-5 | 13-7 | 13-8 | 13-10 | 13-11 | 14-1 |
| 350 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-11 | 16-0 | 16-2 | 16-4 |
| 375 | 17-2 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 |
| 175 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 |
| 200 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 |
| 225 | 6-2 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 |
| 250 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-4 |
| 275 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 |
| 300 | 11-0 | 11-2 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 |
| 325 | 12-11 | 13-1 | 13-3 | 13-4 | 13-6 | 13-7 | 13-9 | 13-10 | 14-0 | 14-2 |
| 350 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 15-11 | 16-1 | 16-3 | 16-5 |
| 375 | 17-3 | 17-5 | 17-7 | 17-9 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 |
| 225 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 |
| 250 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 |
| 275 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 |
| 300 | 11-5 | 11-6 | 11-7 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 |
| 325 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-1 |
| 350 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 |
| 375 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 |
| 400 | 20-4 | 20-6 | 20-7 | 20-8 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 | 21-5 |
| 425 | 23-0 | 23-1 | 23-3 | 23-4 | 23-6 | 23-8 | 23-9 | 23-11 | 24-0 | 24-2 |
| 450 | 25-9 | 25-11 | 26-1 | 26-3 | 26-4 | 26-6 | 26-8 | 26-10 | 26-11 | 27-1 |
| 475 | 28-9 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 | 29-9 | 29-10 | 30-0 | 30-2 |
| 500 | 31-10 | 32-0 | 32-3 | 32-5 | 32-7 | 32-9 | 32-11 | 33-1 | 33-4 | 33-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 |
| 225 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 |
| 250 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 |
| 275 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-1 |
| 300 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 | 12-0 | 12-0 |
| 325 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-1 |
| 350 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 |
| 375 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-5 | 18-6 | 18-7 | 18-9 | 18-10 |
| 400 | 20-5 | 20-6 | 20-8 | 20-9 | 20-10 | 21-0 | 21-1 | 21-2 | 21-4 | 21-5 |
| 425 | 23-1 | 23-2 | 23-4 | 23-5 | 23-7 | 23-8 | 23-10 | 23-11 | 24-1 | 24-2 |
| 450 | 25-10 | 26-0 | 26-2 | 26-3 | 26-5 | 26-7 | 26-9 | 26-10 | 27-0 | 27-2 |
| 475 | 28-10 | 29-0 | 29-2 | 29-4 | 29-5 | 29-7 | 29-9 | 29-11 | 30-1 | 30-3 |
| 500 | 31-11 | 32-1 | 32-4 | 32-6 | 32-8 | 32-10 | 33-0 | 33-2 | 33-4 | 33-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 |
| 275 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 |
| 300 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 |
| 325 | 13-8 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 14-0 | 14-1 | 14-1 | 14-2 |
| 350 | 15-11 | 16-0 | 16-0 | 16-1 | 16-2 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 |
| 375 | 18-3 | 18-4 | 18-5 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-9 | 18-10 |
| 400 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-4 | 21-5 |
| 425 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 | 24-1 | 24-2 | 24-3 |
| 450 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 |
| 475 | 29-4 | 29-6 | 29-7 | 29-8 | 29-9 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 |
| 500 | 32-7 | 32-8 | 32-9 | 32-11 | 33-0 | 33-1 | 33-3 | 33-4 | 33-6 | 33-7 |
| 525 | 35-11 | 36-0 | 36-2 | 36-3 | 36-5 | 36-6 | 36-8 | 36-10 | 36-11 | 37-1 |
| 550 | 39-5 | 39-7 | 39-9 | 39-10 | 40-0 | 40-2 | 40-3 | 40-5 | 40-7 | 40-8 |
| 575 | 43-1 | 43-3 | 43-5 | 43-7 | 43-9 | 43-11 | 44-0 | 44-2 | 44-4 | 44-6 |
| 600 | 47-0 | 47-2 | 47-4 | 47-6 | 47-8 | 47-10 | 48-0 | 48-2 | 48-4 | 48-6 |
| 625 | 51-0 | 51-2 | 51-5 | 51-7 | 51-9 | 51-11 | 52-1 | 52-3 | 52-6 | 52-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 |
| 275 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 |
| 300 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 |
| 325 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-2 |
| 350 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 |
| 375 | 18-4 | 18-4 | 18-5 | 18-6 | 18-7 | 18-7 | 18-8 | 18-9 | 18-10 | 18-10 |
| 400 | 20-10 | 20-11 | 21-0 | 21-1 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 |
| 425 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 | 24-1 | 24-2 | 24-3 |
| 450 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 |
| 475 | 29-5 | 29-6 | 29-7 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-3 | 30-4 |
| 500 | 32-7 | 32-9 | 32-10 | 32-11 | 33-1 | 33-2 | 33-3 | 33-5 | 33-6 | 33-7 |
| 525 | 36-0 | 36-1 | 36-3 | 36-4 | 36-6 | 36-7 | 36-9 | 36-10 | 37-0 | 37-1 |
| 550 | 39-6 | 39-8 | 39-9 | 39-11 | 40-1 | 40-2 | 40-4 | 40-5 | 40-7 | 40-9 |
| 575 | 43-2 | 43-4 | 43-6 | 43-8 | 43-10 | 43-11 | 44-1 | 44-3 | 44-5 | 44-6 |
| 600 | 47-1 | 47-3 | 47-5 | 47-7 | 47-9 | 47-11 | 48-1 | 48-3 | 48-4 | 48-6 |
| 625 | 51-1 | 51-3 | 51-6 | 51-8 | 51-10 | 52-0 | 52-2 | 52-4 | 52-6 | 52-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 0.99 | 2000 | 0.99 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 0.32 | 1875 | 0.32 | 1880 |
| 30 | 0 | 0 | 0 | 0.481 | 0.4 | 1508 | 0.39 | 1538 |
| 40 | 0 | 0 | 0 | 0.481 | 0.43 | 1390 | 0.42 | 1426 |
| 50 | 0 | 0 | 0 | 0.481 | 0.47 | 1275 | 0.46 | 1315 |
| 60 | 0 | 0 | 0 | 0.481 | 0.52 | 1164 | 0.5 | 1207 |
| 70 | 0 | 0 | 0 | 0.481 | 0.57 | 1058 | 0.55 | 1102 |
| 80 | 0 | 0 | 0 | 0.481 | 0.63 | 958 | 0.6 | 1003 |
| 90 | 0 | 0 | 0 | 0.481 | 0.69 | 866 | 0.66 | 909 |
| 100 | 0 | 0 | 0 | 0.481 | 0.77 | 783 | 0.73 | 823 |
| 110 | 0 | 0 | 0 | 0.481 | 0.85 | 710 | 0.81 | 745 |
| 120 | 0 | 0 | 0 | 0.481 | 0.93 | 645 | 0.89 | 676 |
| 130 | 0 | 0 | 0 | 0.481 | 1.02 | 590 | 0.98 | 616 |
| 167 | 0 | 0 | 0 | 0.481 | 1.32 | 456 | 1.26 | 476 |
| 212 | 0 | 0 | 0 | 0.481 | 1.65 | 365 | 1.59 | 378 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 3.96 | 2000 | 3.96 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 2.23 | 1080 | 2.17 | 1111 |
| 30 | 0 | 0 | 0 | 0.481 | 2.64 | 911 | 2.57 | 938 |
| 40 | 0 | 0 | 0 | 0.481 | 2.78 | 865 | 2.71 | 890 |
| 50 | 0 | 0 | 0 | 0.481 | 2.92 | 823 | 2.85 | 846 |
| 60 | 0 | 0 | 0 | 0.481 | 3.06 | 786 | 2.99 | 806 |
| 70 | 0 | 0 | 0 | 0.481 | 3.2 | 751 | 3.13 | 770 |
| 80 | 0 | 0 | 0 | 0.481 | 3.34 | 721 | 3.27 | 737 |
| 90 | 0 | 0 | 0 | 0.481 | 3.48 | 692 | 3.4 | 707 |
| 100 | 0 | 0 | 0 | 0.481 | 3.61 | 667 | 3.54 | 680 |
| 110 | 0 | 0 | 0 | 0.481 | 3.74 | 643 | 3.67 | 655 |
| 120 | 0 | 0 | 0 | 0.481 | 3.87 | 622 | 3.81 | 633 |
| 130 | 0 | 0 | 0 | 0.481 | 4 | 602 | 3.94 | 612 |
| 167 | 0 | 0 | 0 | 0.481 | 4.43 | 544 | 4.36 | 553 |
| 212 | 0 | 0 | 0 | 0.481 | 4.9 | 492 | 4.82 | 500 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 8.92 | 2000 | 8.92 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 7.01 | 773 | 6.91 | 785 |
| 30 | 0 | 0 | 0 | 0.481 | 7.49 | 724 | 7.4 | 734 |
| 40 | 0 | 0 | 0 | 0.481 | 7.65 | 709 | 7.55 | 718 |
| 50 | 0 | 0 | 0 | 0.481 | 7.8 | 695 | 7.71 | 704 |
| 60 | 0 | 0 | 0 | 0.481 | 7.96 | 682 | 7.86 | 690 |
| 70 | 0 | 0 | 0 | 0.481 | 8.11 | 669 | 8.02 | 677 |
| 80 | 0 | 0 | 0 | 0.481 | 8.25 | 658 | 8.17 | 664 |
| 90 | 0 | 0 | 0 | 0.481 | 8.4 | 646 | 8.32 | 653 |
| 100 | 0 | 0 | 0 | 0.481 | 8.54 | 635 | 8.47 | 641 |
| 110 | 0 | 0 | 0 | 0.481 | 8.69 | 625 | 8.61 | 630 |
| 120 | 0 | 0 | 0 | 0.481 | 8.83 | 615 | 8.76 | 620 |
| 130 | 0 | 0 | 0 | 0.481 | 8.97 | 606 | 8.9 | 610 |
| 167 | 0 | 0 | 0 | 0.481 | 9.45 | 575 | 9.37 | 580 |
| 212 | 0 | 0 | 0 | 0.481 | 9.97 | 545 | 9.9 | 549 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 15.9 | 2000 | 15.9 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 13.99 | 691 | 13.88 | 696 |
| 30 | 0 | 0 | 0 | 0.481 | 14.46 | 669 | 14.36 | 674 |
| 40 | 0 | 0 | 0 | 0.481 | 14.61 | 662 | 14.51 | 666 |
| 50 | 0 | 0 | 0 | 0.481 | 14.77 | 655 | 14.67 | 659 |
| 60 | 0 | 0 | 0 | 0.481 | 14.92 | 648 | 14.82 | 652 |
| 70 | 0 | 0 | 0 | 0.481 | 15.07 | 642 | 14.98 | 646 |
| 80 | 0 | 0 | 0 | 0.481 | 15.22 | 636 | 15.13 | 639 |
| 90 | 0 | 0 | 0 | 0.481 | 15.37 | 630 | 15.28 | 633 |
| 100 | 0 | 0 | 0 | 0.481 | 15.51 | 624 | 15.43 | 627 |
| 110 | 0 | 0 | 0 | 0.481 | 15.66 | 618 | 15.58 | 621 |
| 120 | 0 | 0 | 0 | 0.481 | 15.8 | 612 | 15.73 | 615 |
| 130 | 0 | 0 | 0 | 0.481 | 15.95 | 607 | 15.88 | 610 |
| 167 | 0 | 0 | 0 | 0.481 | 16.45 | 589 | 16.37 | 592 |
| 212 | 0 | 0 | 0 | 0.481 | 17.01 | 570 | 16.93 | 572 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.58 | 24.93 | 2000 | 24.93 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 23.02 | 658 | 22.92 | 661 |
| 30 | 0 | 0 | 0 | 0.481 | 23.49 | 646 | 23.39 | 648 |
| 40 | 0 | 0 | 0 | 0.481 | 23.64 | 641 | 23.54 | 644 |
| 50 | 0 | 0 | 0 | 0.481 | 23.79 | 637 | 23.7 | 640 |
| 60 | 0 | 0 | 0 | 0.481 | 23.94 | 634 | 23.85 | 636 |
| 70 | 0 | 0 | 0 | 0.481 | 24.1 | 630 | 24 | 632 |
| 80 | 0 | 0 | 0 | 0.481 | 24.24 | 626 | 24.16 | 628 |
| 90 | 0 | 0 | 0 | 0.481 | 24.39 | 622 | 24.31 | 624 |
| 100 | 0 | 0 | 0 | 0.481 | 24.54 | 618 | 24.46 | 620 |
| 110 | 0 | 0 | 0 | 0.481 | 24.69 | 615 | 24.61 | 617 |
| 120 | 0 | 0 | 0 | 0.481 | 24.83 | 611 | 24.76 | 613 |
| 130 | 0 | 0 | 0 | 0.481 | 24.98 | 608 | 24.91 | 609 |
| 167 | 0 | 0 | 0 | 0.481 | 25.49 | 596 | 25.41 | 598 |
| 212 | 0 | 0 | 0 | 0.481 | 26.07 | 583 | 25.99 | 585 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 100 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-2 | 1-3 |
| 150 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 |
| 175 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-6 |
| 200 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 125 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 150 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-9 | 1-11 |
| 175 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 |
| 200 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-9 | 3-1 | 3-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 |
| 150 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 |
| 175 | 1-10 | 2-0 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-10 |
| 200 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 |
| 225 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-8 |
| 250 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 |
| 125 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 |
| 150 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 |
| 175 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-10 |
| 200 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-6 | 3-7 | 3-9 |
| 225 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 |
| 250 | 3-11 | 4-2 | 4-4 | 4-7 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 |
| 175 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 2-11 |
| 200 | 3-3 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 |
| 225 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 |
| 250 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 |
| 275 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 |
| 300 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 |
| 325 | 8-6 | 8-8 | 8-10 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 |
| 350 | 9-10 | 10-1 | 10-3 | 10-6 | 10-8 | 10-11 | 11-1 | 11-4 | 11-6 | 11-9 |
| 375 | 11-4 | 11-7 | 11-10 | 12-1 | 12-4 | 12-6 | 12-9 | 13-0 | 13-3 | 13-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 |
| 175 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 |
| 200 | 3-3 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 |
| 225 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 250 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 275 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 |
| 300 | 7-4 | 7-6 | 7-8 | 7-10 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 |
| 325 | 8-7 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-2 |
| 350 | 10-0 | 10-2 | 10-5 | 10-8 | 10-10 | 11-0 | 11-3 | 11-5 | 11-8 | 11-10 |
| 375 | 11-6 | 11-9 | 12-0 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-4 | 13-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 |
| 225 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 |
| 250 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 |
| 275 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 |
| 300 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 325 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 |
| 350 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 |
| 375 | 12-6 | 12-7 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 |
| 400 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-3 | 15-5 | 15-7 |
| 425 | 16-0 | 16-3 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 |
| 450 | 18-0 | 18-2 | 18-5 | 18-7 | 18-9 | 19-0 | 19-2 | 19-4 | 19-7 | 19-9 |
| 475 | 20-0 | 20-3 | 20-6 | 20-8 | 20-11 | 21-2 | 21-4 | 21-7 | 21-9 | 22-0 |
| 500 | 22-2 | 22-5 | 22-8 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 |
| 225 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 |
| 250 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 |
| 275 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 300 | 8-0 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 |
| 325 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 |
| 350 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 |
| 375 | 12-7 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 | 13-4 | 13-6 | 13-8 | 13-9 |
| 400 | 14-4 | 14-6 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-4 | 15-6 | 15-8 |
| 425 | 16-2 | 16-4 | 16-6 | 16-8 | 16-10 | 17-0 | 17-2 | 17-4 | 17-6 | 17-8 |
| 450 | 18-1 | 18-4 | 18-6 | 18-8 | 18-11 | 19-1 | 19-3 | 19-6 | 19-8 | 19-10 |
| 475 | 20-2 | 20-5 | 20-7 | 20-10 | 21-1 | 21-3 | 21-6 | 21-8 | 21-11 | 22-1 |
| 500 | 22-4 | 22-7 | 22-10 | 23-1 | 23-4 | 23-7 | 23-10 | 24-0 | 24-3 | 24-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 |
| 275 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-5 | 7-5 |
| 300 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 |
| 325 | 9-10 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 |
| 350 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-0 |
| 375 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 |
| 400 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-8 | 15-9 |
| 425 | 16-9 | 16-11 | 17-0 | 17-1 | 17-3 | 17-4 | 17-5 | 17-7 | 17-8 | 17-9 |
| 450 | 18-10 | 18-11 | 19-1 | 19-2 | 19-4 | 19-5 | 19-7 | 19-8 | 19-10 | 19-11 |
| 475 | 21-0 | 21-1 | 21-3 | 21-5 | 21-6 | 21-8 | 21-10 | 21-11 | 22-1 | 22-2 |
| 500 | 23-3 | 23-5 | 23-6 | 23-8 | 23-10 | 24-0 | 24-2 | 24-4 | 24-6 | 24-7 |
| 525 | 25-7 | 25-9 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 | 26-10 | 27-0 | 27-2 |
| 550 | 28-1 | 28-4 | 28-6 | 28-8 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 | 29-10 |
| 575 | 30-9 | 30-11 | 31-2 | 31-4 | 31-7 | 31-9 | 32-0 | 32-2 | 32-5 | 32-7 |
| 600 | 33-6 | 33-9 | 33-11 | 34-2 | 34-5 | 34-7 | 34-10 | 35-1 | 35-3 | 35-6 |
| 625 | 36-4 | 36-7 | 36-10 | 37-1 | 37-4 | 37-7 | 37-10 | 38-1 | 38-3 | 38-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 |
| 275 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 |
| 300 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 |
| 325 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 |
| 350 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 375 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 |
| 400 | 14-11 | 15-0 | 15-1 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 |
| 425 | 16-10 | 16-11 | 17-1 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-9 | 17-10 |
| 450 | 18-11 | 19-0 | 19-2 | 19-3 | 19-5 | 19-6 | 19-8 | 19-9 | 19-10 | 20-0 |
| 475 | 21-1 | 21-2 | 21-4 | 21-6 | 21-7 | 21-9 | 21-10 | 22-0 | 22-2 | 22-3 |
| 500 | 23-4 | 23-6 | 23-8 | 23-10 | 23-11 | 24-1 | 24-3 | 24-5 | 24-6 | 24-8 |
| 525 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 |
| 550 | 28-3 | 28-5 | 28-7 | 28-10 | 29-0 | 29-2 | 29-4 | 29-6 | 29-9 | 29-11 |
| 575 | 30-11 | 31-1 | 31-4 | 31-6 | 31-8 | 31-11 | 32-1 | 32-4 | 32-6 | 32-8 |
| 600 | 33-8 | 33-10 | 34-1 | 34-4 | 34-6 | 34-9 | 35-0 | 35-2 | 35-5 | 35-7 |
| 625 | 36-6 | 36-9 | 37-0 | 37-3 | 37-6 | 37-9 | 37-11 | 38-2 | 38-5 | 38-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 50 | 0 | 31.5 | 0 | 2.607 | 3.27 | 1000 | 3.27 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 2.83 | 213 | 2.81 | 214 |
| 30 | 0 | 0 | 0 | 0.481 | 2.88 | 209 | 2.86 | 211 |
| 40 | 0 | 0 | 0 | 0.481 | 2.93 | 206 | 2.91 | 207 |
| 50 | 0 | 0 | 0 | 0.481 | 2.98 | 202 | 2.97 | 203 |
| 60 | 0 | 0 | 0 | 0.481 | 3.03 | 199 | 3.01 | 200 |
| 70 | 0 | 0 | 0 | 0.481 | 3.08 | 196 | 3.06 | 197 |
| 80 | 0 | 0 | 0 | 0.481 | 3.13 | 193 | 3.11 | 194 |
| 90 | 0 | 0 | 0 | 0.481 | 3.17 | 190 | 3.16 | 191 |
| 100 | 0 | 0 | 0 | 0.481 | 3.22 | 188 | 3.2 | 189 |
| 110 | 0 | 0 | 0 | 0.481 | 3.26 | 185 | 3.24 | 186 |
| 120 | 0 | 0 | 0 | 0.481 | 3.3 | 183 | 3.28 | 184 |
| 130 | 0 | 0 | 0 | 0.481 | 3.34 | 181 | 3.32 | 182 |
| 167 | 0 | 0 | 0 | 0.481 | 3.49 | 173 | 3.46 | 174 |
| 212 | 0 | 0 | 0 | 0.481 | 3.65 | 165 | 3.63 | 166 |

* Design Condition

Span = 200 ft

| Design Condition Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 50 | 0 | 31.5 | 0 | 2.607 | 13.26 | 1000 | 13.26 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 12.84 | 190 | 12.82 | 191 |
| 30 | 0 | 0 | 0 | 0.481 | 12.89 | 190 | 12.87 | 190 |
| 40 | 0 | 0 | 0 | 0.481 | 12.93 | 189 | 12.91 | 189 |
| 50 | 0 | 0 | 0 | 0.481 | 12.98 | 188 | 12.96 | 189 |
| 60 | 0 | 0 | 0 | 0.481 | 13.03 | 188 | 13.01 | 188 |
| 70 | 0 | 0 | 0 | 0.481 | 13.07 | 187 | 13.06 | 187 |
| 80 | 0 | 0 | 0 | 0.481 | 13.12 | 187 | 13.1 | 187 |
| 90 | 0 | 0 | 0 | 0.481 | 13.16 | 186 | 13.15 | 186 |
| 100 | 0 | 0 | 0 | 0.481 | 13.21 | 185 | 13.19 | 186 |
| 110 | 0 | 0 | 0 | 0.481 | 13.25 | 185 | 13.23 | 185 |
| 120 | 0 | 0 | 0 | 0.481 | 13.29 | 184 | 13.27 | 184 |
| 130 | 0 | 0 | 0 | 0.481 | 13.33 | 184 | 13.31 | 184 |
| 167 | 0 | 0 | 0 | 0.481 | 13.48 | 182 | 13.46 | 182 |
| 212 | 0 | 0 | 0 | 0.481 | 13.67 | 179 | 13.64 | 180 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 30.55 | 1000 | 30.55 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 30.13 | 187 | 30.11 | 187 |
| 30 | 0 | 0 | 0 | 0.481 | 30.17 | 187 | 30.15 | 187 |
| 40 | 0 | 0 | 0 | 0.481 | 30.22 | 186 | 30.2 | 186 |
| 50 | 0 | 0 | 0 | 0.481 | 30.26 | 186 | 30.25 | 186 |
| 60 | 0 | 0 | 0 | 0.481 | 30.31 | 186 | 30.29 | 186 |
| 70 | 0 | 0 | 0 | 0.481 | 30.35 | 186 | 30.34 | 186 |
| 80 | 0 | 0 | 0 | 0.481 | 30.4 | 185 | 30.39 | 185 |
| 90 | 0 | 0 | 0 | 0.481 | 30.45 | 185 | 30.43 | 185 |
| 100 | 0 | 0 | 0 | 0.481 | 30.49 | 185 | 30.47 | 185 |
| 110 | 0 | 0 | 0 | 0.481 | 30.53 | 185 | 30.51 | 185 |
| 120 | 0 | 0 | 0 | 0.481 | 30.58 | 184 | 30.55 | 184 |
| 130 | 0 | 0 | 0 | 0.481 | 30.62 | 184 | 30.59 | 184 |
| 167 | 0 | 0 | 0 | 0.481 | 30.77 | 183 | 30.75 | 183 |
| 212 | 0 | 0 | 0 | 0.481 | 30.95 | 182 | 30.93 | 182 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 56.29 | 1000 | 56.29 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 55.87 | 186 | 55.85 | 186 |
| 30 | 0 | 0 | 0 | 0.481 | 55.92 | 186 | 55.9 | 186 |
| 40 | 0 | 0 | 0 | 0.481 | 55.97 | 185 | 55.95 | 185 |
| 50 | 0 | 0 | 0 | 0.481 | 56.01 | 185 | 55.99 | 185 |
| 60 | 0 | 0 | 0 | 0.481 | 56.06 | 185 | 56.04 | 185 |
| 70 | 0 | 0 | 0 | 0.481 | 56.1 | 185 | 56.09 | 185 |
| 80 | 0 | 0 | 0 | 0.481 | 56.15 | 185 | 56.13 | 185 |
| 90 | 0 | 0 | 0 | 0.481 | 56.19 | 185 | 56.17 | 185 |
| 100 | 0 | 0 | 0 | 0.481 | 56.24 | 185 | 56.22 | 185 |
| 110 | 0 | 0 | 0 | 0.481 | 56.28 | 185 | 56.26 | 185 |
| 120 | 0 | 0 | 0 | 0.481 | 56.32 | 184 | 56.3 | 185 |
| 130 | 0 | 0 | 0 | 0.481 | 56.36 | 184 | 56.34 | 184 |
| 167 | 0 | 0 | 0 | 0.481 | 56.51 | 184 | 56.49 | 184 |
| 212 | 0 | 0 | 0 | 0.481 | 56.7 | 183 | 56.67 | 183 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 92.8 | 1000 | 92.8 | 1000* |
| 20 | 0 | 0 | 0 | 0.481 | 92.38 | 185 | 92.36 | 185 |
| 30 | 0 | 0 | 0 | 0.481 | 92.43 | 185 | 92.41 | 185 |
| 40 | 0 | 0 | 0 | 0.481 | 92.47 | 185 | 92.46 | 185 |
| 50 | 0 | 0 | 0 | 0.481 | 92.52 | 185 | 92.5 | 185 |
| 60 | 0 | 0 | 0 | 0.481 | 92.56 | 185 | 92.55 | 185 |
| 70 | 0 | 0 | 0 | 0.481 | 92.61 | 185 | 92.59 | 185 |
| 80 | 0 | 0 | 0 | 0.481 | 92.65 | 185 | 92.64 | 185 |
| 90 | 0 | 0 | 0 | 0.481 | 92.7 | 185 | 92.68 | 185 |
| 100 | 0 | 0 | 0 | 0.481 | 92.74 | 185 | 92.72 | 185 |
| 110 | 0 | 0 | 0 | 0.481 | 92.79 | 185 | 92.76 | 185 |
| 120 | 0 | 0 | 0 | 0.481 | 92.83 | 184 | 92.8 | 185 |
| 130 | 0 | 0 | 0 | 0.481 | 92.87 | 184 | 92.84 | 184 |
| 167 | 0 | 0 | 0 | 0.481 | 93.02 | 184 | 93 | 184 |
| 212 | 0 | 0 | 0 | 0.481 | 93.2 | 184 | 93.18 | 184 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 |
| 100 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 |
| 125 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 150 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-4 |
| 175 | 8-8 | 8-9 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 |
| 200 | 11-3 | 11-6 | 11-8 | 11-11 | 12-1 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 |
| 100 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 125 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 |
| 150 | 6-5 | 6-6 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 |
| 175 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-9 | 9-11 | 10-0 |
| 200 | 11-4 | 11-7 | 11-9 | 12-0 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 | 13-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-4 |
| 125 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 |
| 150 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 |
| 175 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 |
| 200 | 12-10 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 |
| 225 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 | 16-9 | 16-9 |
| 250 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 | 20-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-4 |
| 125 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 |
| 150 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 |
| 175 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 |
| 200 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 |
| 225 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 | 16-10 |
| 250 | 20-2 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.172

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 7-5 | 7-6 | 7-6 | 7-6 | 7-6 | 7-6 | 7-6 | 7-6 | 7-6 | 7-7 |
| 175 | 10-2 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 |
| 200 | 13-3 | 13-4 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-5 | 13-6 |
| 225 | 16-10 | 16-10 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-0 | 17-1 |
| 250 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 |
| 275 | 25-3 | 25-3 | 25-4 | 25-4 | 25-5 | 25-5 | 25-6 | 25-6 | 25-7 | 25-7 |
| 300 | 30-1 | 30-2 | 30-2 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 | 30-6 | 30-6 |
| 325 | 35-5 | 35-6 | 35-6 | 35-7 | 35-8 | 35-8 | 35-9 | 35-10 | 35-10 | 35-11 |
| 350 | 41-2 | 41-3 | 41-4 | 41-4 | 41-5 | 41-6 | 41-7 | 41-7 | 41-8 | 41-9 |
| 375 | 47-5 | 47-6 | 47-6 | 47-7 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 | 48-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 7-5 | 7-6 | 7-6 | 7-6 | 7-6 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 |
| 175 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-4 |
| 200 | 13-4 | 13-4 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-5 | 13-6 |
| 225 | 16-10 | 16-11 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-1 | 17-1 |
| 250 | 20-10 | 20-10 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 |
| 275 | 25-3 | 25-4 | 25-4 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 | 25-7 | 25-7 |
| 300 | 30-2 | 30-2 | 30-3 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 | 30-6 | 30-6 |
| 325 | 35-5 | 35-6 | 35-7 | 35-7 | 35-8 | 35-8 | 35-9 | 35-10 | 35-10 | 35-11 |
| 350 | 41-2 | 41-3 | 41-4 | 41-5 | 41-5 | 41-6 | 41-7 | 41-8 | 41-8 | 41-9 |
| 375 | 47-5 | 47-6 | 47-7 | 47-8 | 47-9 | 47-9 | 47-10 | 47-11 | 48-0 | 48-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.173

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 13-8 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 |
| 225 | 17-5 | 17-5 | 17-5 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 |
| 250 | 21-6 | 21-6 | 21-6 | 21-7 | 21-7 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 |
| 275 | 26-1 | 26-1 | 26-1 | 26-1 | 26-2 | 26-2 | 26-2 | 26-2 | 26-3 | 26-3 |
| 300 | 31-1 | 31-1 | 31-2 | 31-2 | 31-2 | 31-2 | 31-3 | 31-3 | 31-3 | 31-4 |
| 325 | 36-7 | 36-7 | 36-7 | 36-8 | 36-8 | 36-9 | 36-9 | 36-9 | 36-10 | 36-10 |
| 350 | 42-6 | 42-7 | 42-7 | 42-7 | 42-8 | 42-8 | 42-9 | 42-9 | 42-9 | 42-10 |
| 375 | 48-11 | 49-0 | 49-0 | 49-1 | 49-1 | 49-2 | 49-2 | 49-3 | 49-3 | 49-4 |
| 400 | 55-10 | 55-11 | 55-11 | 56-0 | 56-0 | 56-1 | 56-2 | 56-2 | 56-3 | 56-3 |
| 425 | 63-3 | 63-4 | 63-4 | 63-5 | 63-6 | 63-6 | 63-7 | 63-7 | 63-8 | 63-9 |
| 450 | 71-2 | 71-3 | 71-3 | 71-4 | 71-5 | 71-5 | 71-6 | 71-7 | 71-7 | 71-8 |
| 475 | 79-7 | 79-8 | 79-8 | 79-9 | 79-10 | 79-11 | 80-0 | 80-0 | 80-1 | 80-2 |
| 500 | 88-6 | 88-7 | 88-8 | 88-9 | 88-9 | 88-10 | 88-11 | 89-0 | 89-1 | 89-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 |
| 225 | 17-5 | 17-5 | 17-5 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 |
| 250 | 21-6 | 21-6 | 21-6 | 21-7 | 21-7 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 |
| 275 | 26-1 | 26-1 | 26-1 | 26-2 | 26-2 | 26-2 | 26-2 | 26-3 | 26-3 | 26-3 |
| 300 | 31-1 | 31-1 | 31-2 | 31-2 | 31-2 | 31-3 | 31-3 | 31-3 | 31-3 | 31-4 |
| 325 | 36-7 | 36-7 | 36-8 | 36-8 | 36-8 | 36-9 | 36-9 | 36-9 | 36-10 | 36-10 |
| 350 | 42-6 | 42-7 | 42-7 | 42-8 | 42-8 | 42-8 | 42-9 | 42-9 | 42-10 | 42-10 |
| 375 | 49-0 | 49-0 | 49-0 | 49-1 | 49-1 | 49-2 | 49-2 | 49-3 | 49-3 | 49-4 |
| 400 | 55-10 | 55-11 | 56-0 | 56-0 | 56-1 | 56-1 | 56-2 | 56-2 | 56-3 | 56-3 |
| 425 | 63-3 | 63-4 | 63-5 | 63-5 | 63-6 | 63-6 | 63-7 | 63-8 | 63-8 | 63-9 |
| 450 | 71-2 | 71-3 | 71-4 | 71-4 | 71-5 | 71-6 | 71-6 | 71-7 | 71-8 | 71-8 |
| 475 | 79-7 | 79-8 | 79-9 | 79-9 | 79-10 | 79-11 | 80-0 | 80-1 | 80-1 | 80-2 |
| 500 | 88-6 | 88-7 | 88-8 | 88-9 | 88-10 | 88-11 | 89-0 | 89-0 | 89-1 | 89-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.174

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 |
| 275 | 27-2 | 27-2 | 27-2 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-3 |
| 300 | 32-5 | 32-5 | 32-5 | 32-5 | 32-5 | 32-5 | 32-6 | 32-6 | 32-6 | 32-6 |
| 325 | 38-1 | 38-1 | 38-2 | 38-2 | 38-2 | 38-2 | 38-2 | 38-3 | 38-3 | 38-3 |
| 350 | 44-4 | 44-4 | 44-4 | 44-4 | 44-5 | 44-5 | 44-5 | 44-5 | 44-6 | 44-6 |
| 375 | 51-0 | 51-1 | 51-1 | 51-1 | 51-1 | 51-2 | 51-2 | 51-2 | 51-3 | 51-3 |
| 400 | 58-3 | 58-3 | 58-3 | 58-4 | 58-4 | 58-5 | 58-5 | 58-5 | 58-5 | 58-6 |
| 425 | 66-0 | 66-0 | 66-0 | 66-1 | 66-1 | 66-2 | 66-2 | 66-2 | 66-3 | 66-3 |
| 450 | 74-3 | 74-3 | 74-4 | 74-4 | 74-4 | 74-5 | 74-5 | 74-6 | 74-6 | 74-7 |
| 475 | 83-0 | 83-1 | 83-1 | 83-2 | 83-2 | 83-3 | 83-3 | 83-4 | 83-4 | 83-5 |
| 500 | 92-4 | 92-5 | 92-5 | 92-6 | 92-7 | 92-7 | 92-8 | 92-8 | 92-9 | 92-9 |
| 525 | 102-3 | 102-4 | 102-4 | 102-5 | 102-6 | 102-6 | 102-7 | 102-7 | 102-8 | 102-9 |
| 550 | 112-9 | 112-10 | 112-10 | 112-11 | 113-0 | 113-0 | 113-1 | 113-2 | 113-2 | 113-3 |
| 575 | 123-10 | 123-10 | 123-11 | 124-0 | 124-1 | 124-1 | 124-2 | 124-3 | 124-3 | 124-4 |
| 600 | 135-5 | 135-6 | 135-7 | 135-8 | 135-9 | 135-10 | 135-10 | 135-11 | 136-0 | 136-1 |
| 625 | 147-9 | 147-10 | 147-10 | 147-11 | 148-0 | 148-1 | 148-2 | 148-3 | 148-4 | 148-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 |
| 275 | 27-2 | 27-2 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 |
| 300 | 32-5 | 32-5 | 32-5 | 32-5 | 32-5 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 |
| 325 | 38-1 | 38-1 | 38-2 | 38-2 | 38-2 | 38-2 | 38-3 | 38-3 | 38-3 | 38-3 |
| 350 | 44-4 | 44-4 | 44-4 | 44-5 | 44-5 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 |
| 375 | 51-0 | 51-1 | 51-1 | 51-1 | 51-1 | 51-2 | 51-2 | 51-2 | 51-3 | 51-3 |
| 400 | 58-3 | 58-3 | 58-4 | 58-4 | 58-4 | 58-5 | 58-5 | 58-5 | 58-6 | 58-6 |
| 425 | 66-0 | 66-0 | 66-1 | 66-1 | 66-1 | 66-2 | 66-2 | 66-2 | 66-3 | 66-3 |
| 450 | 74-3 | 74-3 | 74-4 | 74-4 | 74-5 | 74-5 | 74-5 | 74-6 | 74-6 | 74-7 |
| 475 | 83-0 | 83-1 | 83-1 | 83-2 | 83-2 | 83-3 | 83-3 | 83-4 | 83-4 | 83-5 |
| 500 | 92-5 | 92-5 | 92-6 | 92-6 | 92-7 | 92-7 | 92-8 | 92-8 | 92-9 | 92-9 |
| 525 | 102-3 | 102-4 | 102-5 | 102-5 | 102-6 | 102-6 | 102-7 | 102-8 | 102-8 | 102-9 |
| 550 | 112-9 | 112-10 | 112-10 | 112-11 | 113-0 | 113-0 | 113-1 | 113-2 | 113-2 | 113-3 |
| 575 | 123-10 | 123-11 | 123-11 | 124-0 | 124-1 | 124-2 | 124-2 | 124-3 | 124-4 | 124-4 |
| 600 | 135-6 | 135-7 | 135-7 | 135-8 | 135-9 | 135-10 | 135-11 | 135-11 | 136-0 | 136-1 |
| 625 | 147-9 | 147-10 | 147-11 | 148-0 | 148-1 | 148-2 | 148-2 | 148-3 | 148-4 | 148-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 2.18 | 1500 | 2.18 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 1.24 | 483 | 1.2 | 500 |
| 30 | 0 | 0 | 0 | 0.481 | 1.33 | 452 | 1.29 | 466 |
| 40 | 0 | 0 | 0 | 0.481 | 1.42 | 425 | 1.38 | 437 |
| 50 | 0 | 0 | 0 | 0.481 | 1.5 | 401 | 1.46 | 412 |
| 60 | 0 | 0 | 0 | 0.481 | 1.58 | 381 | 1.54 | 390 |
| 70 | 0 | 0 | 0 | 0.481 | 1.66 | 363 | 1.62 | 370 |
| 80 | 0 | 0 | 0 | 0.481 | 1.74 | 347 | 1.7 | 353 |
| 90 | 0 | 0 | 0 | 0.481 | 1.81 | 332 | 1.78 | 338 |
| 100 | 0 | 0 | 0 | 0.481 | 1.88 | 320 | 1.85 | 325 |
| 110 | 0 | 0 | 0 | 0.481 | 1.95 | 308 | 1.92 | 314 |
| 120 | 0 | 0 | 0 | 0.481 | 2.02 | 298 | 1.98 | 304 |
| 130 | 0 | 0 | 0 | 0.481 | 2.08 | 289 | 2.04 | 295 |
| 167 | 0 | 0 | 0 | 0.481 | 2.3 | 262 | 2.26 | 267 |
| 212 | 0 | 0 | 0 | 0.481 | 2.54 | 238 | 2.5 | 241 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 8.76 | 1500 | 8.76 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 7.89 | 307 | 7.85 | 308 |
| 30 | 0 | 0 | 0 | 0.481 | 7.96 | 304 | 7.92 | 306 |
| 40 | 0 | 0 | 0 | 0.481 | 8.04 | 301 | 8 | 303 |
| 50 | 0 | 0 | 0 | 0.481 | 8.11 | 299 | 8.07 | 300 |
| 60 | 0 | 0 | 0 | 0.481 | 8.18 | 296 | 8.14 | 297 |
| 70 | 0 | 0 | 0 | 0.481 | 8.25 | 293 | 8.22 | 295 |
| 80 | 0 | 0 | 0 | 0.481 | 8.32 | 291 | 8.29 | 292 |
| 90 | 0 | 0 | 0 | 0.481 | 8.39 | 289 | 8.36 | 290 |
| 100 | 0 | 0 | 0 | 0.481 | 8.46 | 286 | 8.43 | 287 |
| 110 | 0 | 0 | 0 | 0.481 | 8.53 | 284 | 8.49 | 285 |
| 120 | 0 | 0 | 0 | 0.481 | 8.6 | 282 | 8.55 | 283 |
| 130 | 0 | 0 | 0 | 0.481 | 8.66 | 280 | 8.62 | 281 |
| 167 | 0 | 0 | 0 | 0.481 | 8.89 | 273 | 8.84 | 274 |
| 212 | 0 | 0 | 0 | 0.481 | 9.15 | 265 | 9.11 | 266 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 19.9 | 1500 | 19.9 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 19.04 | 289 | 19 | 289 |
| 30 | 0 | 0 | 0 | 0.481 | 19.11 | 288 | 19.07 | 288 |
| 40 | 0 | 0 | 0 | 0.481 | 19.18 | 287 | 19.15 | 287 |
| 50 | 0 | 0 | 0 | 0.481 | 19.25 | 286 | 19.22 | 286 |
| 60 | 0 | 0 | 0 | 0.481 | 19.32 | 285 | 19.29 | 285 |
| 70 | 0 | 0 | 0 | 0.481 | 19.39 | 284 | 19.36 | 284 |
| 80 | 0 | 0 | 0 | 0.481 | 19.46 | 283 | 19.43 | 283 |
| 90 | 0 | 0 | 0 | 0.481 | 19.53 | 282 | 19.5 | 282 |
| 100 | 0 | 0 | 0 | 0.481 | 19.6 | 281 | 19.57 | 281 |
| 110 | 0 | 0 | 0 | 0.481 | 19.67 | 280 | 19.63 | 280 |
| 120 | 0 | 0 | 0 | 0.481 | 19.74 | 279 | 19.69 | 280 |
| 130 | 0 | 0 | 0 | 0.481 | 19.8 | 278 | 19.75 | 279 |
| 167 | 0 | 0 | 0 | 0.481 | 20.03 | 275 | 19.98 | 276 |
| 212 | 0 | 0 | 0 | 0.481 | 20.3 | 271 | 20.26 | 272 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 35.88 | 1500 | 35.88 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 35.03 | 283 | 34.99 | 283 |
| 30 | 0 | 0 | 0 | 0.481 | 35.1 | 283 | 35.06 | 283 |
| 40 | 0 | 0 | 0 | 0.481 | 35.17 | 282 | 35.13 | 282 |
| 50 | 0 | 0 | 0 | 0.481 | 35.24 | 281 | 35.2 | 282 |
| 60 | 0 | 0 | 0 | 0.481 | 35.31 | 281 | 35.27 | 281 |
| 70 | 0 | 0 | 0 | 0.481 | 35.38 | 280 | 35.34 | 281 |
| 80 | 0 | 0 | 0 | 0.481 | 35.45 | 280 | 35.41 | 280 |
| 90 | 0 | 0 | 0 | 0.481 | 35.51 | 279 | 35.48 | 280 |
| 100 | 0 | 0 | 0 | 0.481 | 35.58 | 279 | 35.55 | 279 |
| 110 | 0 | 0 | 0 | 0.481 | 35.65 | 278 | 35.61 | 279 |
| 120 | 0 | 0 | 0 | 0.481 | 35.72 | 278 | 35.68 | 278 |
| 130 | 0 | 0 | 0 | 0.481 | 35.78 | 277 | 35.74 | 278 |
| 167 | 0 | 0 | 0 | 0.481 | 36.01 | 276 | 35.97 | 276 |
| 212 | 0 | 0 | 0 | 0.481 | 36.29 | 274 | 36.24 | 274 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 57.16 | 1500 | 57.16 | 1500* |
| 20 | 0 | 0 | 0 | 0.481 | 56.32 | 280 | 56.28 | 281 |
| 30 | 0 | 0 | 0 | 0.481 | 56.39 | 280 | 56.35 | 280 |
| 40 | 0 | 0 | 0 | 0.481 | 56.46 | 280 | 56.42 | 280 |
| 50 | 0 | 0 | 0 | 0.481 | 56.52 | 280 | 56.49 | 280 |
| 60 | 0 | 0 | 0 | 0.481 | 56.59 | 279 | 56.56 | 279 |
| 70 | 0 | 0 | 0 | 0.481 | 56.66 | 279 | 56.63 | 279 |
| 80 | 0 | 0 | 0 | 0.481 | 56.73 | 279 | 56.7 | 279 |
| 90 | 0 | 0 | 0 | 0.481 | 56.8 | 278 | 56.77 | 279 |
| 100 | 0 | 0 | 0 | 0.481 | 56.86 | 278 | 56.83 | 278 |
| 110 | 0 | 0 | 0 | 0.481 | 56.93 | 278 | 56.89 | 278 |
| 120 | 0 | 0 | 0 | 0.481 | 57 | 277 | 56.96 | 278 |
| 130 | 0 | 0 | 0 | 0.481 | 57.06 | 277 | 57.02 | 277 |
| 167 | 0 | 0 | 0 | 0.481 | 57.29 | 276 | 57.25 | 276 |
| 212 | 0 | 0 | 0 | 0.481 | 57.57 | 275 | 57.52 | 275 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 100 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 |
| 150 | 2-8 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 |
| 175 | 3-8 | 3-11 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-11 |
| 200 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-10 | 7-2 | 7-5 | 7-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 100 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 |
| 125 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 |
| 150 | 2-10 | 3-0 | 3-2 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 |
| 175 | 3-10 | 4-1 | 4-4 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 |
| 200 | 5-0 | 5-4 | 5-8 | 6-0 | 6-4 | 6-8 | 6-11 | 7-3 | 7-7 | 7-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-1 |
| 125 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 |
| 150 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 |
| 175 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 |
| 200 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-6 |
| 225 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 |
| 250 | 12-3 | 12-5 | 12-6 | 12-7 | 12-9 | 12-10 | 13-0 | 13-1 | 13-2 | 13-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 |
| 125 | 3-1 | 3-1 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 |
| 150 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 |
| 175 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 |
| 200 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 |
| 225 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 |
| 250 | 12-4 | 12-5 | 12-7 | 12-8 | 12-10 | 12-11 | 13-0 | 13-2 | 13-3 | 13-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-9 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 |
| 175 | 6-5 | 6-6 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 |
| 200 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 |
| 225 | 10-8 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 |
| 250 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 |
| 275 | 15-11 | 16-0 | 16-1 | 16-2 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 |
| 300 | 19-0 | 19-1 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 |
| 325 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 |
| 350 | 25-11 | 26-0 | 26-1 | 26-2 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 |
| 375 | 29-9 | 29-11 | 30-0 | 30-1 | 30-3 | 30-4 | 30-5 | 30-7 | 30-8 | 30-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 |
| 175 | 6-5 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 |
| 200 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 |
| 225 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 |
| 250 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 |
| 275 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 |
| 300 | 19-1 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-6 | 19-7 | 19-8 |
| 325 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 |
| 350 | 26-0 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-7 | 26-8 | 26-9 | 26-10 |
| 375 | 29-10 | 29-11 | 30-1 | 30-2 | 30-3 | 30-5 | 30-6 | 30-7 | 30-9 | 30-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 |
| 225 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-2 |
| 250 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 |
| 275 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 | 16-9 |
| 300 | 19-7 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-11 | 19-11 |
| 325 | 23-0 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 |
| 350 | 26-9 | 26-9 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 |
| 375 | 30-9 | 30-9 | 30-10 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-2 | 31-3 |
| 400 | 35-0 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-7 |
| 425 | 39-7 | 39-8 | 39-9 | 39-10 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 |
| 450 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 |
| 475 | 49-7 | 49-8 | 49-9 | 49-10 | 49-11 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 |
| 500 | 55-0 | 55-1 | 55-2 | 55-4 | 55-5 | 55-7 | 55-8 | 55-9 | 55-10 | 56-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 |
| 225 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-2 |
| 250 | 13-7 | 13-8 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 |
| 275 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 |
| 300 | 19-7 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 |
| 325 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 |
| 350 | 26-9 | 26-10 | 26-10 | 26-11 | 27-0 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 |
| 375 | 30-9 | 30-10 | 30-11 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 | 31-3 | 31-4 |
| 400 | 35-0 | 35-1 | 35-2 | 35-3 | 35-4 | 35-5 | 35-5 | 35-6 | 35-7 | 35-8 |
| 425 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 |
| 450 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 |
| 475 | 49-7 | 49-8 | 49-10 | 49-11 | 50-0 | 50-1 | 50-2 | 50-4 | 50-5 | 50-6 |
| 500 | 55-1 | 55-2 | 55-3 | 55-5 | 55-6 | 55-7 | 55-8 | 55-10 | 55-11 | 56-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 |
| 275 | 16-10 | 16-10 | 16-10 | 16-11 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 |
| 300 | 20-1 | 20-1 | 20-1 | 20-1 | 20-2 | 20-2 | 20-2 | 20-3 | 20-3 | 20-3 |
| 325 | 23-7 | 23-7 | 23-7 | 23-8 | 23-8 | 23-8 | 23-9 | 23-9 | 23-9 | 23-10 |
| 350 | 27-4 | 27-5 | 27-5 | 27-5 | 27-6 | 27-6 | 27-7 | 27-7 | 27-7 | 27-8 |
| 375 | 31-5 | 31-6 | 31-6 | 31-7 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 | 31-9 |
| 400 | 35-10 | 35-10 | 35-11 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 |
| 425 | 40-6 | 40-6 | 40-7 | 40-8 | 40-8 | 40-9 | 40-9 | 40-10 | 40-10 | 40-11 |
| 450 | 45-5 | 45-6 | 45-7 | 45-7 | 45-8 | 45-9 | 45-9 | 45-10 | 45-11 | 45-11 |
| 475 | 50-9 | 50-9 | 50-10 | 50-11 | 51-0 | 51-0 | 51-1 | 51-2 | 51-2 | 51-3 |
| 500 | 56-3 | 56-4 | 56-5 | 56-6 | 56-7 | 56-8 | 56-8 | 56-9 | 56-10 | 56-11 |
| 525 | 62-2 | 62-3 | 62-4 | 62-5 | 62-6 | 62-6 | 62-7 | 62-8 | 62-9 | 62-10 |
| 550 | 68-4 | 68-5 | 68-6 | 68-7 | 68-8 | 68-9 | 68-10 | 68-11 | 69-0 | 69-1 |
| 575 | 74-10 | 74-11 | 75-0 | 75-1 | 75-2 | 75-3 | 75-5 | 75-6 | 75-7 | 75-8 |
| 600 | 81-7 | 81-9 | 81-10 | 81-11 | 82-0 | 82-2 | 82-3 | 82-4 | 82-5 | 82-6 |
| 625 | 88-9 | 88-10 | 89-0 | 89-1 | 89-2 | 89-4 | 89-5 | 89-6 | 89-8 | 89-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 |
| 275 | 16-10 | 16-10 | 16-11 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-0 |
| 300 | 20-1 | 20-1 | 20-1 | 20-2 | 20-2 | 20-2 | 20-2 | 20-3 | 20-3 | 20-3 |
| 325 | 23-7 | 23-7 | 23-8 | 23-8 | 23-8 | 23-9 | 23-9 | 23-9 | 23-10 | 23-10 |
| 350 | 27-4 | 27-5 | 27-5 | 27-6 | 27-6 | 27-6 | 27-7 | 27-7 | 27-8 | 27-8 |
| 375 | 31-5 | 31-6 | 31-6 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 |
| 400 | 35-10 | 35-11 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 |
| 425 | 40-6 | 40-7 | 40-7 | 40-8 | 40-8 | 40-9 | 40-10 | 40-10 | 40-11 | 40-11 |
| 450 | 45-6 | 45-6 | 45-7 | 45-8 | 45-8 | 45-9 | 45-10 | 45-10 | 45-11 | 46-0 |
| 475 | 50-9 | 50-10 | 50-10 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-3 | 51-4 |
| 500 | 56-4 | 56-5 | 56-5 | 56-6 | 56-7 | 56-8 | 56-9 | 56-10 | 56-10 | 56-11 |
| 525 | 62-2 | 62-3 | 62-4 | 62-5 | 62-6 | 62-7 | 62-8 | 62-9 | 62-10 | 62-10 |
| 550 | 68-5 | 68-6 | 68-7 | 68-8 | 68-9 | 68-10 | 68-11 | 69-0 | 69-1 | 69-2 |
| 575 | 74-10 | 75-0 | 75-1 | 75-2 | 75-3 | 75-4 | 75-5 | 75-6 | 75-7 | 75-8 |
| 600 | 81-8 | 81-9 | 81-11 | 82-0 | 82-1 | 82-2 | 82-3 | 82-5 | 82-6 | 82-7 |
| 625 | 88-10 | 88-11 | 89-0 | 89-2 | 89-3 | 89-4 | 89-6 | 89-7 | 89-8 | 89-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 1.63 | 2000 | 1.63 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 0.46 | 1309 | 0.45 | 1344 |
| 30 | 0 | 0 | 0 | 0.481 | 0.5 | 1196 | 0.49 | 1236 |
| 40 | 0 | 0 | 0 | 0.481 | 0.55 | 1089 | 0.53 | 1131 |
| 50 | 0 | 0 | 0 | 0.481 | 0.61 | 987 | 0.58 | 1031 |
| 60 | 0 | 0 | 0 | 0.481 | 0.67 | 893 | 0.64 | 936 |
| 70 | 0 | 0 | 0 | 0.481 | 0.74 | 807 | 0.71 | 848 |
| 80 | 0 | 0 | 0 | 0.481 | 0.82 | 731 | 0.78 | 768 |
| 90 | 0 | 0 | 0 | 0.481 | 0.91 | 664 | 0.86 | 697 |
| 100 | 0 | 0 | 0 | 0.481 | 0.99 | 606 | 0.95 | 635 |
| 110 | 0 | 0 | 0 | 0.481 | 1.08 | 556 | 1.04 | 581 |
| 120 | 0 | 0 | 0 | 0.481 | 1.17 | 514 | 1.13 | 534 |
| 130 | 0 | 0 | 0 | 0.481 | 1.26 | 478 | 1.21 | 497 |
| 167 | 0 | 0 | 0 | 0.481 | 1.54 | 390 | 1.49 | 405 |
| 212 | 0 | 0 | 0 | 0.481 | 1.85 | 325 | 1.8 | 335 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 6.54 | 2000 | 6.54 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 5.05 | 478 | 4.97 | 485 |
| 30 | 0 | 0 | 0 | 0.481 | 5.15 | 468 | 5.08 | 475 |
| 40 | 0 | 0 | 0 | 0.481 | 5.26 | 458 | 5.19 | 465 |
| 50 | 0 | 0 | 0 | 0.481 | 5.36 | 450 | 5.29 | 456 |
| 60 | 0 | 0 | 0 | 0.481 | 5.47 | 441 | 5.4 | 447 |
| 70 | 0 | 0 | 0 | 0.481 | 5.57 | 433 | 5.5 | 438 |
| 80 | 0 | 0 | 0 | 0.481 | 5.67 | 426 | 5.6 | 431 |
| 90 | 0 | 0 | 0 | 0.481 | 5.77 | 419 | 5.7 | 423 |
| 100 | 0 | 0 | 0 | 0.481 | 5.86 | 412 | 5.8 | 416 |
| 110 | 0 | 0 | 0 | 0.481 | 5.96 | 405 | 5.9 | 409 |
| 120 | 0 | 0 | 0 | 0.481 | 6.05 | 399 | 5.99 | 403 |
| 130 | 0 | 0 | 0 | 0.481 | 6.14 | 393 | 6.08 | 397 |
| 167 | 0 | 0 | 0 | 0.481 | 6.45 | 375 | 6.38 | 378 |
| 212 | 0 | 0 | 0 | 0.481 | 6.8 | 355 | 6.74 | 359 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 14.81 | 2000 | 14.81 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 13.36 | 408 | 13.29 | 410 |
| 30 | 0 | 0 | 0 | 0.481 | 13.46 | 405 | 13.39 | 407 |
| 40 | 0 | 0 | 0 | 0.481 | 13.56 | 402 | 13.49 | 405 |
| 50 | 0 | 0 | 0 | 0.481 | 13.65 | 400 | 13.58 | 402 |
| 60 | 0 | 0 | 0 | 0.481 | 13.75 | 397 | 13.68 | 399 |
| 70 | 0 | 0 | 0 | 0.481 | 13.84 | 394 | 13.78 | 396 |
| 80 | 0 | 0 | 0 | 0.481 | 13.94 | 392 | 13.88 | 393 |
| 90 | 0 | 0 | 0 | 0.481 | 14.03 | 389 | 13.97 | 391 |
| 100 | 0 | 0 | 0 | 0.481 | 14.13 | 386 | 14.07 | 388 |
| 110 | 0 | 0 | 0 | 0.481 | 14.22 | 384 | 14.16 | 385 |
| 120 | 0 | 0 | 0 | 0.481 | 14.31 | 382 | 14.25 | 383 |
| 130 | 0 | 0 | 0 | 0.481 | 14.4 | 379 | 14.33 | 381 |
| 167 | 0 | 0 | 0 | 0.481 | 14.71 | 371 | 14.64 | 373 |
| 212 | 0 | 0 | 0 | 0.481 | 15.07 | 363 | 15 | 364 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 26.53 | 2000 | 26.53 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 25.1 | 389 | 25.03 | 390 |
| 30 | 0 | 0 | 0 | 0.481 | 25.2 | 388 | 25.13 | 389 |
| 40 | 0 | 0 | 0 | 0.481 | 25.29 | 386 | 25.22 | 388 |
| 50 | 0 | 0 | 0 | 0.481 | 25.38 | 385 | 25.32 | 386 |
| 60 | 0 | 0 | 0 | 0.481 | 25.48 | 384 | 25.41 | 385 |
| 70 | 0 | 0 | 0 | 0.481 | 25.57 | 382 | 25.51 | 383 |
| 80 | 0 | 0 | 0 | 0.481 | 25.66 | 381 | 25.6 | 382 |
| 90 | 0 | 0 | 0 | 0.481 | 25.76 | 380 | 25.7 | 381 |
| 100 | 0 | 0 | 0 | 0.481 | 25.85 | 378 | 25.79 | 379 |
| 110 | 0 | 0 | 0 | 0.481 | 25.94 | 377 | 25.89 | 378 |
| 120 | 0 | 0 | 0 | 0.481 | 26.03 | 376 | 25.97 | 377 |
| 130 | 0 | 0 | 0 | 0.481 | 26.12 | 375 | 26.05 | 376 |
| 167 | 0 | 0 | 0 | 0.481 | 26.43 | 370 | 26.36 | 371 |
| 212 | 0 | 0 | 0 | 0.481 | 26.79 | 365 | 26.73 | 366 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 2.607 | 41.88 | 2000 | 41.88 | 2000* |
| 20 | 0 | 0 | 0 | 0.481 | 40.46 | 381 | 40.39 | 382 |
| 30 | 0 | 0 | 0 | 0.481 | 40.56 | 380 | 40.48 | 381 |
| 40 | 0 | 0 | 0 | 0.481 | 40.65 | 380 | 40.58 | 380 |
| 50 | 0 | 0 | 0 | 0.481 | 40.74 | 379 | 40.67 | 379 |
| 60 | 0 | 0 | 0 | 0.481 | 40.83 | 378 | 40.77 | 379 |
| 70 | 0 | 0 | 0 | 0.481 | 40.92 | 377 | 40.86 | 378 |
| 80 | 0 | 0 | 0 | 0.481 | 41.02 | 376 | 40.96 | 377 |
| 90 | 0 | 0 | 0 | 0.481 | 41.11 | 376 | 41.05 | 376 |
| 100 | 0 | 0 | 0 | 0.481 | 41.2 | 375 | 41.14 | 375 |
| 110 | 0 | 0 | 0 | 0.481 | 41.29 | 374 | 41.23 | 374 |
| 120 | 0 | 0 | 0 | 0.481 | 41.38 | 373 | 41.32 | 374 |
| 130 | 0 | 0 | 0 | 0.481 | 41.47 | 372 | 41.4 | 373 |
| 167 | 0 | 0 | 0 | 0.481 | 41.78 | 370 | 41.71 | 370 |
| 212 | 0 | 0 | 0 | 0.481 | 42.15 | 367 | 42.08 | 367 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 |
| 125 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 |
| 150 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-2 | 2-4 |
| 175 | 1-4 | 1-6 | 1-8 | 1-9 | 2-0 | 2-2 | 2-5 | 2-8 | 2-11 | 3-2 |
| 200 | 1-9 | 1-11 | 2-2 | 2-4 | 2-7 | 2-10 | 3-2 | 3-5 | 3-10 | 4-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-3 | 0-3 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 100 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125 | 0-9 | 0-9 | 0-10 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 |
| 150 | 1-0 | 1-2 | 1-3 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 |
| 175 | 1-5 | 1-6 | 1-8 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 |
| 200 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 3-0 | 3-4 | 3-8 | 4-0 | 4-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 |
| 125 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 |
| 150 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 |
| 175 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 |
| 200 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 |
| 225 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 |
| 250 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 |
| 125 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 |
| 150 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 |
| 175 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 200 | 5-1 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 225 | 6-5 | 6-6 | 6-8 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 |
| 250 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 |
| 175 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 |
| 200 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 |
| 225 | 7-6 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 250 | 9-3 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-10 |
| 275 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 |
| 300 | 13-3 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-11 | 14-0 | 14-1 | 14-2 |
| 325 | 15-7 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-6 | 16-8 |
| 350 | 18-1 | 18-3 | 18-4 | 18-6 | 18-8 | 18-9 | 18-11 | 19-0 | 19-2 | 19-4 |
| 375 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 21-10 | 22-0 | 22-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-7 |
| 175 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 |
| 200 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 |
| 225 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 |
| 250 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-10 |
| 275 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-10 | 11-11 |
| 300 | 13-4 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 |
| 325 | 15-8 | 15-10 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 |
| 350 | 18-2 | 18-4 | 18-6 | 18-7 | 18-9 | 18-10 | 19-0 | 19-1 | 19-3 | 19-4 |
| 375 | 20-11 | 21-1 | 21-3 | 21-4 | 21-6 | 21-8 | 21-10 | 22-0 | 22-1 | 22-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 |
| 225 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 |
| 250 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 |
| 275 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 |
| 300 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 | 14-6 |
| 325 | 16-6 | 16-7 | 16-7 | 16-8 | 16-9 | 16-10 | 16-10 | 16-11 | 17-0 | 17-1 |
| 350 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 |
| 375 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 |
| 400 | 25-0 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-10 | 25-11 |
| 425 | 28-3 | 28-5 | 28-6 | 28-7 | 28-8 | 28-10 | 28-11 | 29-0 | 29-2 | 29-3 |
| 450 | 31-9 | 31-10 | 32-0 | 32-1 | 32-2 | 32-4 | 32-5 | 32-7 | 32-8 | 32-10 |
| 475 | 35-4 | 35-6 | 35-8 | 35-9 | 35-11 | 36-1 | 36-2 | 36-4 | 36-5 | 36-7 |
| 500 | 39-3 | 39-4 | 39-6 | 39-8 | 39-10 | 40-0 | 40-2 | 40-3 | 40-5 | 40-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-5 |
| 225 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 |
| 250 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 |
| 275 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 |
| 300 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-7 |
| 325 | 16-7 | 16-7 | 16-8 | 16-9 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 |
| 350 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-10 |
| 375 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-6 | 22-7 | 22-8 | 22-9 |
| 400 | 25-1 | 25-2 | 25-3 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 |
| 425 | 28-4 | 28-6 | 28-7 | 28-8 | 28-9 | 28-11 | 29-0 | 29-1 | 29-2 | 29-4 |
| 450 | 31-10 | 31-11 | 32-1 | 32-2 | 32-3 | 32-5 | 32-6 | 32-8 | 32-9 | 32-11 |
| 475 | 35-6 | 35-7 | 35-9 | 35-10 | 36-0 | 36-2 | 36-3 | 36-5 | 36-6 | 36-8 |
| 500 | 39-4 | 39-6 | 39-8 | 39-9 | 39-11 | 40-1 | 40-3 | 40-4 | 40-6 | 40-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.190

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 10-0 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 |
| 275 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 | 12-5 |
| 300 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-9 | 14-9 |
| 325 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 |
| 350 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 |
| 375 | 22-8 | 22-8 | 22-9 | 22-10 | 22-10 | 22-11 | 22-11 | 23-0 | 23-1 | 23-1 |
| 400 | 25-9 | 25-10 | 25-11 | 25-11 | 26-0 | 26-1 | 26-2 | 26-2 | 26-3 | 26-4 |
| 425 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 |
| 450 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 | 33-1 | 33-2 | 33-3 | 33-4 |
| 475 | 36-5 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 |
| 500 | 40-5 | 40-6 | 40-7 | 40-8 | 40-9 | 40-10 | 40-11 | 41-1 | 41-2 | 41-3 |
| 525 | 44-7 | 44-8 | 44-9 | 44-11 | 45-0 | 45-1 | 45-2 | 45-4 | 45-5 | 45-6 |
| 550 | 49-0 | 49-1 | 49-2 | 49-4 | 49-5 | 49-6 | 49-8 | 49-9 | 49-11 | 50-0 |
| 575 | 53-7 | 53-8 | 53-10 | 53-11 | 54-1 | 54-2 | 54-4 | 54-5 | 54-7 | 54-8 |
| 600 | 58-5 | 58-6 | 58-8 | 58-10 | 58-11 | 59-1 | 59-2 | 59-4 | 59-6 | 59-7 |
| 625 | 63-5 | 63-7 | 63-9 | 63-10 | 64-0 | 64-2 | 64-4 | 64-5 | 64-7 | 64-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 10-1 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 |
| 275 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 |
| 300 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 |
| 325 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 |
| 350 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 | 20-2 |
| 375 | 22-8 | 22-9 | 22-9 | 22-10 | 22-11 | 22-11 | 23-0 | 23-0 | 23-1 | 23-2 |
| 400 | 25-10 | 25-10 | 25-11 | 26-0 | 26-1 | 26-1 | 26-2 | 26-3 | 26-3 | 26-4 |
| 425 | 29-2 | 29-3 | 29-4 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-8 | 29-9 |
| 450 | 32-9 | 32-10 | 32-10 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 | 33-5 |
| 475 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 |
| 500 | 40-6 | 40-7 | 40-8 | 40-9 | 40-10 | 40-11 | 41-0 | 41-1 | 41-2 | 41-3 |
| 525 | 44-8 | 44-9 | 44-10 | 44-11 | 45-1 | 45-2 | 45-3 | 45-4 | 45-6 | 45-7 |
| 550 | 49-1 | 49-2 | 49-3 | 49-5 | 49-6 | 49-7 | 49-9 | 49-10 | 49-11 | 50-1 |
| 575 | 53-8 | 53-9 | 53-11 | 54-0 | 54-2 | 54-3 | 54-5 | 54-6 | 54-8 | 54-9 |
| 600 | 58-6 | 58-7 | 58-9 | 58-11 | 59-0 | 59-2 | 59-4 | 59-5 | 59-7 | 59-8 |
| 625 | 63-6 | 63-8 | 63-10 | 64-0 | 64-1 | 64-3 | 64-5 | 64-7 | 64-8 | 64-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 20 | 0 | 31.5 | 0 | 2.607 | 3.27 | 1000 | 3.27 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 2.88 | 209 | 2.86 | 211 |
| 30 | 0 | 0 | 0 | 0.481 | 3.03 | 199 | 3.01 | 200 |
| 40 | 0 | 0 | 0 | 0.481 | 3.08 | 196 | 3.06 | 197 |
| 50 | 0 | 0 | 0 | 0.481 | 3.13 | 193 | 3.11 | 194 |
| 60 | 0 | 0 | 0 | 0.481 | 3.17 | 190 | 3.16 | 191 |
| 70 | 0 | 0 | 0 | 0.481 | 3.22 | 188 | 3.2 | 188 |
| 80 | 0 | 0 | 0 | 0.481 | 3.26 | 185 | 3.25 | 186 |
| 90 | 0 | 0 | 0 | 0.481 | 3.31 | 183 | 3.29 | 183 |
| 100 | 0 | 0 | 0 | 0.481 | 3.35 | 180 | 3.33 | 181 |
| 110 | 0 | 0 | 0 | 0.481 | 3.39 | 178 | 3.37 | 179 |
| 120 | 0 | 0 | 0 | 0.481 | 3.43 | 176 | 3.41 | 177 |
| 130 | 0 | 0 | 0 | 0.481 | 3.47 | 174 | 3.45 | 175 |
| 167 | 0 | 0 | 0 | 0.481 | 3.61 | 167 | 3.59 | 168 |
| 212 | 0 | 0 | 0 | 0.481 | 3.77 | 160 | 3.75 | 161 |

* Design Condition

Span = 200 ft

| Design Condition Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Final Sag ft | Final Tension lb | Initial Sag ft | Initial Tension lb |
|---|---|---|---|---|---|---|---|---|
| 20 | 0 | 31.5 | 0 | 2.607 | 13.26 | 1000 | 13.26 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 12.89 | 190 | 12.87 | 190 |
| 30 | 0 | 0 | 0 | 0.481 | 13.03 | 188 | 13.01 | 188 |
| 40 | 0 | 0 | 0 | 0.481 | 13.07 | 187 | 13.05 | 187 |
| 50 | 0 | 0 | 0 | 0.481 | 13.12 | 187 | 13.1 | 187 |
| 60 | 0 | 0 | 0 | 0.481 | 13.16 | 186 | 13.15 | 186 |
| 70 | 0 | 0 | 0 | 0.481 | 13.21 | 185 | 13.19 | 185 |
| 80 | 0 | 0 | 0 | 0.481 | 13.25 | 185 | 13.24 | 185 |
| 90 | 0 | 0 | 0 | 0.481 | 13.3 | 184 | 13.28 | 184 |
| 100 | 0 | 0 | 0 | 0.481 | 13.34 | 183 | 13.32 | 184 |
| 110 | 0 | 0 | 0 | 0.481 | 13.39 | 183 | 13.36 | 183 |
| 120 | 0 | 0 | 0 | 0.481 | 13.43 | 182 | 13.41 | 183 |
| 130 | 0 | 0 | 0 | 0.481 | 13.47 | 182 | 13.45 | 182 |
| 167 | 0 | 0 | 0 | 0.481 | 13.62 | 180 | 13.6 | 180 |
| 212 | 0 | 0 | 0 | 0.481 | 13.8 | 178 | 13.77 | 178 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 30.55 | 1000 | 30.55 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 30.17 | 187 | 30.15 | 187 |
| 30 | 0 | 0 | 0 | 0.481 | 30.31 | 186 | 30.29 | 186 |
| 40 | 0 | 0 | 0 | 0.481 | 30.35 | 186 | 30.34 | 186 |
| 50 | 0 | 0 | 0 | 0.481 | 30.4 | 185 | 30.38 | 185 |
| 60 | 0 | 0 | 0 | 0.481 | 30.45 | 185 | 30.43 | 185 |
| 70 | 0 | 0 | 0 | 0.481 | 30.49 | 185 | 30.48 | 185 |
| 80 | 0 | 0 | 0 | 0.481 | 30.54 | 185 | 30.52 | 185 |
| 90 | 0 | 0 | 0 | 0.481 | 30.58 | 184 | 30.57 | 184 |
| 100 | 0 | 0 | 0 | 0.481 | 30.63 | 184 | 30.61 | 184 |
| 110 | 0 | 0 | 0 | 0.481 | 30.67 | 184 | 30.65 | 184 |
| 120 | 0 | 0 | 0 | 0.481 | 30.71 | 184 | 30.69 | 184 |
| 130 | 0 | 0 | 0 | 0.481 | 30.75 | 183 | 30.73 | 184 |
| 167 | 0 | 0 | 0 | 0.481 | 30.9 | 183 | 30.88 | 183 |
| 212 | 0 | 0 | 0 | 0.481 | 31.09 | 182 | 31.06 | 182 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 56.29 | 1000 | 56.29 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 55.92 | 186 | 55.9 | 186 |
| 30 | 0 | 0 | 0 | 0.481 | 56.06 | 185 | 56.04 | 185 |
| 40 | 0 | 0 | 0 | 0.481 | 56.1 | 185 | 56.08 | 185 |
| 50 | 0 | 0 | 0 | 0.481 | 56.15 | 185 | 56.13 | 185 |
| 60 | 0 | 0 | 0 | 0.481 | 56.19 | 185 | 56.18 | 185 |
| 70 | 0 | 0 | 0 | 0.481 | 56.24 | 185 | 56.22 | 185 |
| 80 | 0 | 0 | 0 | 0.481 | 56.28 | 185 | 56.27 | 185 |
| 90 | 0 | 0 | 0 | 0.481 | 56.33 | 184 | 56.31 | 184 |
| 100 | 0 | 0 | 0 | 0.481 | 56.37 | 184 | 56.35 | 184 |
| 110 | 0 | 0 | 0 | 0.481 | 56.41 | 184 | 56.39 | 184 |
| 120 | 0 | 0 | 0 | 0.481 | 56.46 | 184 | 56.43 | 184 |
| 130 | 0 | 0 | 0 | 0.481 | 56.5 | 184 | 56.47 | 184 |
| 167 | 0 | 0 | 0 | 0.481 | 56.65 | 184 | 56.63 | 184 |
| 212 | 0 | 0 | 0 | 0.481 | 56.83 | 183 | 56.81 | 183 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 92.8 | 1000 | 92.8 | 1000* |
| 0 | 0 | 0 | 0 | 0.481 | 92.43 | 185 | 92.41 | 185 |
| 30 | 0 | 0 | 0 | 0.481 | 92.56 | 185 | 92.55 | 185 |
| 40 | 0 | 0 | 0 | 0.481 | 92.61 | 185 | 92.59 | 185 |
| 50 | 0 | 0 | 0 | 0.481 | 92.65 | 185 | 92.64 | 185 |
| 60 | 0 | 0 | 0 | 0.481 | 92.7 | 185 | 92.68 | 185 |
| 70 | 0 | 0 | 0 | 0.481 | 92.74 | 185 | 92.73 | 185 |
| 80 | 0 | 0 | 0 | 0.481 | 92.79 | 185 | 92.77 | 185 |
| 90 | 0 | 0 | 0 | 0.481 | 92.83 | 184 | 92.82 | 184 |
| 100 | 0 | 0 | 0 | 0.481 | 92.88 | 184 | 92.86 | 184 |
| 110 | 0 | 0 | 0 | 0.481 | 92.92 | 184 | 92.9 | 184 |
| 120 | 0 | 0 | 0 | 0.481 | 92.96 | 184 | 92.94 | 184 |
| 130 | 0 | 0 | 0 | 0.481 | 93 | 184 | 92.98 | 184 |
| 167 | 0 | 0 | 0 | 0.481 | 93.15 | 184 | 93.13 | 184 |
| 212 | 0 | 0 | 0 | 0.481 | 93.33 | 184 | 93.31 | 184 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 | 1-11 |
| 100 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 |
| 125 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 |
| 150 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 |
| 175 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 |
| 200 | 11-11 | 12-1 | 12-3 | 12-6 | 12-8 | 12-10 | 13-1 | 13-3 | 13-5 | 13-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 |
| 100 | 3-0 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 |
| 125 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 150 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 |
| 175 | 9-2 | 9-4 | 9-5 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 |
| 200 | 12-0 | 12-2 | 12-4 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-6 | 13-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-4 |
| 125 | 5-1 | 5-1 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 | 5-2 |
| 150 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 |
| 175 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 |
| 200 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 |
| 225 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 | 16-9 | 16-9 | 16-10 | 16-11 | 16-11 |
| 250 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 20-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-4 |
| 125 | 5-1 | 5-1 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 | 5-3 |
| 150 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 |
| 175 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 |
| 200 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 |
| 225 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 | 16-10 | 16-10 | 16-11 | 17-0 |
| 250 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 7-6 | 7-6 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-7 |
| 175 | 10-2 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 |
| 200 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-6 |
| 225 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-1 | 17-1 | 17-1 | 17-1 | 17-2 |
| 250 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-2 | 21-2 | 21-2 |
| 275 | 25-4 | 25-5 | 25-5 | 25-6 | 25-6 | 25-7 | 25-7 | 25-8 | 25-8 | 25-8 |
| 300 | 30-3 | 30-3 | 30-4 | 30-5 | 30-5 | 30-6 | 30-6 | 30-7 | 30-7 | 30-8 |
| 325 | 35-7 | 35-8 | 35-8 | 35-9 | 35-10 | 35-10 | 35-11 | 35-11 | 36-0 | 36-1 |
| 350 | 41-4 | 41-5 | 41-6 | 41-7 | 41-7 | 41-8 | 41-9 | 41-10 | 41-10 | 41-11 |
| 375 | 47-7 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 | 48-1 | 48-1 | 48-2 | 48-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 7-6 | 7-6 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-7 | 7-7 |
| 175 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 |
| 200 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-6 |
| 225 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-1 | 17-1 | 17-1 | 17-2 | 17-2 |
| 250 | 20-11 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-2 | 21-2 | 21-3 |
| 275 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 | 25-7 | 25-7 | 25-8 | 25-8 | 25-9 |
| 300 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 | 30-6 | 30-6 | 30-7 | 30-8 | 30-8 |
| 325 | 35-7 | 35-8 | 35-8 | 35-9 | 35-10 | 35-10 | 35-11 | 36-0 | 36-0 | 36-1 |
| 350 | 41-5 | 41-5 | 41-6 | 41-7 | 41-8 | 41-8 | 41-9 | 41-10 | 41-11 | 41-11 |
| 375 | 47-8 | 47-9 | 47-9 | 47-10 | 47-11 | 48-0 | 48-1 | 48-2 | 48-3 | 48-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 |
| 225 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 | 17-6 | 17-6 | 17-6 |
| 250 | 21-7 | 21-7 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 |
| 275 | 26-1 | 26-2 | 26-2 | 26-2 | 26-2 | 26-3 | 26-3 | 26-3 | 26-3 | 26-4 |
| 300 | 31-2 | 31-2 | 31-2 | 31-3 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-4 |
| 325 | 36-8 | 36-8 | 36-9 | 36-9 | 36-9 | 36-10 | 36-10 | 36-10 | 36-11 | 36-11 |
| 350 | 42-7 | 42-8 | 42-8 | 42-9 | 42-9 | 42-10 | 42-10 | 42-10 | 42-11 | 42-11 |
| 375 | 49-1 | 49-1 | 49-2 | 49-2 | 49-3 | 49-3 | 49-4 | 49-4 | 49-5 | 49-5 |
| 400 | 56-0 | 56-0 | 56-1 | 56-2 | 56-2 | 56-3 | 56-3 | 56-4 | 56-4 | 56-5 |
| 425 | 63-5 | 63-6 | 63-6 | 63-7 | 63-7 | 63-8 | 63-9 | 63-9 | 63-10 | 63-10 |
| 450 | 71-4 | 71-5 | 71-5 | 71-6 | 71-7 | 71-8 | 71-8 | 71-9 | 71-10 | 71-10 |
| 475 | 79-9 | 79-10 | 79-11 | 80-0 | 80-0 | 80-1 | 80-2 | 80-3 | 80-3 | 80-4 |
| 500 | 88-9 | 88-9 | 88-10 | 88-11 | 89-0 | 89-1 | 89-2 | 89-3 | 89-4 | 89-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 13-9 | 13-9 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 | 13-10 |
| 225 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 | 17-6 | 17-6 | 17-7 |
| 250 | 21-7 | 21-7 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 |
| 275 | 26-2 | 26-2 | 26-2 | 26-2 | 26-3 | 26-3 | 26-3 | 26-3 | 26-4 | 26-4 |
| 300 | 31-2 | 31-2 | 31-3 | 31-3 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-5 |
| 325 | 36-8 | 36-8 | 36-9 | 36-9 | 36-9 | 36-10 | 36-10 | 36-10 | 36-11 | 36-11 |
| 350 | 42-8 | 42-8 | 42-8 | 42-9 | 42-9 | 42-10 | 42-10 | 42-10 | 42-11 | 42-11 |
| 375 | 49-1 | 49-1 | 49-2 | 49-2 | 49-3 | 49-3 | 49-4 | 49-4 | 49-5 | 49-5 |
| 400 | 56-0 | 56-1 | 56-1 | 56-2 | 56-2 | 56-3 | 56-3 | 56-4 | 56-4 | 56-5 |
| 425 | 63-5 | 63-6 | 63-6 | 63-7 | 63-8 | 63-8 | 63-9 | 63-9 | 63-10 | 63-11 |
| 450 | 71-4 | 71-5 | 71-6 | 71-6 | 71-7 | 71-8 | 71-8 | 71-9 | 71-10 | 71-11 |
| 475 | 79-9 | 79-10 | 79-11 | 80-0 | 80-1 | 80-1 | 80-2 | 80-3 | 80-4 | 80-4 |
| 500 | 88-9 | 88-10 | 88-11 | 89-0 | 89-0 | 89-1 | 89-2 | 89-3 | 89-4 | 89-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 |
| 275 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 |
| 300 | 32-5 | 32-5 | 32-5 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 |
| 325 | 38-2 | 38-2 | 38-2 | 38-2 | 38-3 | 38-3 | 38-3 | 38-3 | 38-3 | 38-4 |
| 350 | 44-4 | 44-5 | 44-5 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-6 | 44-7 |
| 375 | 51-1 | 51-1 | 51-2 | 51-2 | 51-2 | 51-3 | 51-3 | 51-3 | 51-3 | 51-4 |
| 400 | 58-4 | 58-4 | 58-4 | 58-5 | 58-5 | 58-5 | 58-6 | 58-6 | 58-6 | 58-7 |
| 425 | 66-1 | 66-1 | 66-2 | 66-2 | 66-2 | 66-3 | 66-3 | 66-3 | 66-4 | 66-4 |
| 450 | 74-4 | 74-4 | 74-5 | 74-5 | 74-6 | 74-6 | 74-7 | 74-7 | 74-7 | 74-8 |
| 475 | 83-2 | 83-2 | 83-3 | 83-3 | 83-4 | 83-4 | 83-5 | 83-5 | 83-6 | 83-6 |
| 500 | 92-6 | 92-7 | 92-7 | 92-8 | 92-8 | 92-9 | 92-9 | 92-10 | 92-10 | 92-11 |
| 525 | 102-5 | 102-6 | 102-6 | 102-7 | 102-7 | 102-8 | 102-9 | 102-9 | 102-10 | 102-10 |
| 550 | 112-11 | 113-0 | 113-0 | 113-1 | 113-2 | 113-2 | 113-3 | 113-4 | 113-4 | 113-5 |
| 575 | 124-0 | 124-1 | 124-1 | 124-2 | 124-3 | 124-4 | 124-4 | 124-5 | 124-6 | 124-6 |
| 600 | 135-8 | 135-9 | 135-10 | 135-10 | 135-11 | 136-0 | 136-1 | 136-2 | 136-2 | 136-3 |
| 625 | 147-11 | 148-0 | 148-1 | 148-2 | 148-3 | 148-4 | 148-5 | 148-6 | 148-7 | 148-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 22-5 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-6 |
| 275 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 | 27-3 | 27-4 |
| 300 | 32-5 | 32-5 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 |
| 325 | 38-2 | 38-2 | 38-2 | 38-3 | 38-3 | 38-3 | 38-3 | 38-3 | 38-4 | 38-4 |
| 350 | 44-5 | 44-5 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 |
| 375 | 51-1 | 51-1 | 51-2 | 51-2 | 51-2 | 51-3 | 51-3 | 51-3 | 51-3 | 51-4 |
| 400 | 58-4 | 58-4 | 58-5 | 58-5 | 58-5 | 58-6 | 58-6 | 58-6 | 58-7 | 58-7 |
| 425 | 66-1 | 66-1 | 66-2 | 66-2 | 66-2 | 66-3 | 66-3 | 66-4 | 66-4 | 66-4 |
| 450 | 74-4 | 74-5 | 74-5 | 74-5 | 74-6 | 74-6 | 74-7 | 74-7 | 74-8 | 74-8 |
| 475 | 83-2 | 83-2 | 83-3 | 83-3 | 83-4 | 83-4 | 83-5 | 83-5 | 83-6 | 83-6 |
| 500 | 92-6 | 92-7 | 92-7 | 92-8 | 92-8 | 92-9 | 92-9 | 92-10 | 92-11 | 92-11 |
| 525 | 102-5 | 102-6 | 102-6 | 102-7 | 102-8 | 102-8 | 102-9 | 102-9 | 102-10 | 102-11 |
| 550 | 112-11 | 113-0 | 113-0 | 113-1 | 113-2 | 113-2 | 113-3 | 113-4 | 113-4 | 113-5 |
| 575 | 124-0 | 124-1 | 124-2 | 124-2 | 124-3 | 124-4 | 124-5 | 124-5 | 124-6 | 124-7 |
| 600 | 135-8 | 135-9 | 135-10 | 135-11 | 135-11 | 136-0 | 136-1 | 136-2 | 136-3 | 136-4 |
| 625 | 148-0 | 148-1 | 148-2 | 148-2 | 148-3 | 148-4 | 148-5 | 148-6 | 148-7 | 148-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 2.18 | 1500 | 2.18 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 1.33 | 452 | 1.29 | 468 |
| 30 | 0 | 0 | 0 | 0.481 | 1.58 | 381 | 1.54 | 391 |
| 40 | 0 | 0 | 0 | 0.481 | 1.66 | 363 | 1.62 | 372 |
| 50 | 0 | 0 | 0 | 0.481 | 1.74 | 347 | 1.7 | 355 |
| 60 | 0 | 0 | 0 | 0.481 | 1.81 | 332 | 1.77 | 339 |
| 70 | 0 | 0 | 0 | 0.481 | 1.88 | 320 | 1.85 | 326 |
| 80 | 0 | 0 | 0 | 0.481 | 1.95 | 308 | 1.92 | 313 |
| 90 | 0 | 0 | 0 | 0.481 | 2.02 | 298 | 1.99 | 302 |
| 100 | 0 | 0 | 0 | 0.481 | 2.09 | 288 | 2.06 | 293 |
| 110 | 0 | 0 | 0 | 0.481 | 2.15 | 280 | 2.12 | 284 |
| 120 | 0 | 0 | 0 | 0.481 | 2.22 | 272 | 2.18 | 277 |
| 130 | 0 | 0 | 0 | 0.481 | 2.27 | 265 | 2.23 | 270 |
| 167 | 0 | 0 | 0 | 0.481 | 2.47 | 244 | 2.43 | 248 |
| 212 | 0 | 0 | 0 | 0.481 | 2.7 | 224 | 2.66 | 227 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 8.76 | 1500 | 8.76 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 7.96 | 304 | 7.92 | 306 |
| 30 | 0 | 0 | 0 | 0.481 | 8.18 | 296 | 8.14 | 298 |
| 40 | 0 | 0 | 0 | 0.481 | 8.25 | 293 | 8.21 | 295 |
| 50 | 0 | 0 | 0 | 0.481 | 8.32 | 291 | 8.28 | 292 |
| 60 | 0 | 0 | 0 | 0.481 | 8.39 | 289 | 8.35 | 290 |
| 70 | 0 | 0 | 0 | 0.481 | 8.46 | 286 | 8.43 | 287 |
| 80 | 0 | 0 | 0 | 0.481 | 8.53 | 284 | 8.5 | 285 |
| 90 | 0 | 0 | 0 | 0.481 | 8.6 | 282 | 8.57 | 283 |
| 100 | 0 | 0 | 0 | 0.481 | 8.66 | 280 | 8.63 | 281 |
| 110 | 0 | 0 | 0 | 0.481 | 8.73 | 278 | 8.69 | 279 |
| 120 | 0 | 0 | 0 | 0.481 | 8.8 | 275 | 8.76 | 277 |
| 130 | 0 | 0 | 0 | 0.481 | 8.86 | 274 | 8.82 | 275 |
| 167 | 0 | 0 | 0 | 0.481 | 9.08 | 267 | 9.04 | 268 |
| 212 | 0 | 0 | 0 | 0.481 | 9.34 | 260 | 9.3 | 261 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 19.9 | 1500 | 19.9 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 19.11 | 288 | 19.07 | 288 |
| 30 | 0 | 0 | 0 | 0.481 | 19.32 | 285 | 19.28 | 285 |
| 40 | 0 | 0 | 0 | 0.481 | 19.39 | 284 | 19.35 | 284 |
| 50 | 0 | 0 | 0 | 0.481 | 19.46 | 283 | 19.42 | 283 |
| 60 | 0 | 0 | 0 | 0.481 | 19.53 | 282 | 19.49 | 282 |
| 70 | 0 | 0 | 0 | 0.481 | 19.6 | 281 | 19.56 | 281 |
| 80 | 0 | 0 | 0 | 0.481 | 19.67 | 280 | 19.63 | 280 |
| 90 | 0 | 0 | 0 | 0.481 | 19.74 | 279 | 19.7 | 279 |
| 100 | 0 | 0 | 0 | 0.481 | 19.8 | 278 | 19.77 | 278 |
| 110 | 0 | 0 | 0 | 0.481 | 19.87 | 277 | 19.83 | 278 |
| 120 | 0 | 0 | 0 | 0.481 | 19.94 | 276 | 19.89 | 277 |
| 130 | 0 | 0 | 0 | 0.481 | 20 | 275 | 19.96 | 276 |
| 167 | 0 | 0 | 0 | 0.481 | 20.22 | 272 | 20.18 | 273 |
| 212 | 0 | 0 | 0 | 0.481 | 20.5 | 269 | 20.45 | 269 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 35.88 | 1500 | 35.88 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 35.1 | 283 | 35.06 | 283 |
| 30 | 0 | 0 | 0 | 0.481 | 35.31 | 281 | 35.27 | 281 |
| 40 | 0 | 0 | 0 | 0.481 | 35.38 | 280 | 35.34 | 281 |
| 50 | 0 | 0 | 0 | 0.481 | 35.45 | 280 | 35.41 | 280 |
| 60 | 0 | 0 | 0 | 0.481 | 35.51 | 279 | 35.48 | 280 |
| 70 | 0 | 0 | 0 | 0.481 | 35.58 | 279 | 35.55 | 279 |
| 80 | 0 | 0 | 0 | 0.481 | 35.65 | 278 | 35.62 | 279 |
| 90 | 0 | 0 | 0 | 0.481 | 35.72 | 278 | 35.69 | 278 |
| 100 | 0 | 0 | 0 | 0.481 | 35.79 | 277 | 35.75 | 278 |
| 110 | 0 | 0 | 0 | 0.481 | 35.85 | 277 | 35.82 | 277 |
| 120 | 0 | 0 | 0 | 0.481 | 35.92 | 276 | 35.88 | 277 |
| 130 | 0 | 0 | 0 | 0.481 | 35.98 | 276 | 35.94 | 276 |
| 167 | 0 | 0 | 0 | 0.481 | 36.21 | 274 | 36.17 | 275 |
| 212 | 0 | 0 | 0 | 0.481 | 36.48 | 272 | 36.44 | 273 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 57.16 | 1500 | 57.16 | 1500* |
| 0 | 0 | 0 | 0 | 0.481 | 56.39 | 280 | 56.34 | 280 |
| 30 | 0 | 0 | 0 | 0.481 | 56.59 | 279 | 56.55 | 279 |
| 40 | 0 | 0 | 0 | 0.481 | 56.66 | 279 | 56.62 | 279 |
| 50 | 0 | 0 | 0 | 0.481 | 56.73 | 279 | 56.69 | 279 |
| 60 | 0 | 0 | 0 | 0.481 | 56.8 | 278 | 56.76 | 279 |
| 70 | 0 | 0 | 0 | 0.481 | 56.86 | 278 | 56.83 | 278 |
| 80 | 0 | 0 | 0 | 0.481 | 56.93 | 278 | 56.9 | 278 |
| 90 | 0 | 0 | 0 | 0.481 | 57 | 277 | 56.97 | 278 |
| 100 | 0 | 0 | 0 | 0.481 | 57.07 | 277 | 57.03 | 277 |
| 110 | 0 | 0 | 0 | 0.481 | 57.13 | 277 | 57.1 | 277 |
| 120 | 0 | 0 | 0 | 0.481 | 57.2 | 277 | 57.16 | 277 |
| 130 | 0 | 0 | 0 | 0.481 | 57.26 | 276 | 57.22 | 277 |
| 167 | 0 | 0 | 0 | 0.481 | 57.49 | 275 | 57.45 | 276 |
| 212 | 0 | 0 | 0 | 0.481 | 57.77 | 274 | 57.72 | 274 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 100 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 |
| 125 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 |
| 150 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 |
| 175 | 4-6 | 4-9 | 5-0 | 5-2 | 5-5 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 |
| 200 | 5-10 | 6-2 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 | 8-0 | 8-3 | 8-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 |
| 125 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 |
| 150 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 |
| 175 | 4-7 | 4-10 | 5-1 | 5-4 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 |
| 200 | 6-0 | 6-4 | 6-8 | 6-11 | 7-3 | 7-7 | 7-10 | 8-1 | 8-4 | 8-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 |
| 125 | 3-2 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 |
| 150 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 |
| 175 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 |
| 200 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 |
| 225 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 |
| 250 | 12-7 | 12-9 | 12-10 | 12-11 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 |
| 125 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 |
| 150 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 |
| 175 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-8 |
| 200 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-9 |
| 225 | 10-3 | 10-4 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 |
| 250 | 12-8 | 12-10 | 12-11 | 13-0 | 13-2 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-9 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 4-11 |
| 175 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-8 | 6-9 |
| 200 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 |
| 225 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 |
| 250 | 13-4 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 |
| 275 | 16-2 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 |
| 300 | 19-3 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 |
| 325 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 |
| 350 | 26-2 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-11 | 27-0 | 27-1 |
| 375 | 30-1 | 30-3 | 30-4 | 30-5 | 30-7 | 30-8 | 30-9 | 30-11 | 31-0 | 31-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 4-10 | 4-10 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 4-11 | 4-11 |
| 175 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 |
| 200 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-10 |
| 225 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 |
| 250 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 |
| 275 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 |
| 300 | 19-3 | 19-4 | 19-5 | 19-6 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-10 |
| 325 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 |
| 350 | 26-3 | 26-4 | 26-5 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 |
| 375 | 30-2 | 30-3 | 30-5 | 30-6 | 30-7 | 30-9 | 30-10 | 30-11 | 31-1 | 31-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 | 8-10 | 8-11 |
| 225 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 |
| 250 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 |
| 275 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 |
| 300 | 19-9 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 |
| 325 | 23-2 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 | 23-6 | 23-7 |
| 350 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-2 | 27-3 | 27-4 | 27-4 |
| 375 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 | 31-2 | 31-3 | 31-4 | 31-5 | 31-5 |
| 400 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-7 | 35-8 | 35-9 | 35-10 |
| 425 | 39-9 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 | 40-6 |
| 450 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-4 | 45-5 | 45-5 |
| 475 | 49-10 | 49-11 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-8 | 50-9 |
| 500 | 55-4 | 55-5 | 55-6 | 55-8 | 55-9 | 55-10 | 56-0 | 56-1 | 56-2 | 56-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 |
| 225 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 |
| 250 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 |
| 275 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 |
| 300 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-0 | 20-1 |
| 325 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-5 | 23-5 | 23-6 | 23-6 | 23-7 |
| 350 | 26-11 | 27-0 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-4 | 27-5 |
| 375 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 | 31-3 | 31-4 | 31-4 | 31-5 | 31-6 |
| 400 | 35-3 | 35-4 | 35-5 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 | 35-9 | 35-10 |
| 425 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 | 40-5 | 40-6 |
| 450 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 | 45-5 | 45-6 |
| 475 | 49-11 | 50-0 | 50-1 | 50-2 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 |
| 500 | 55-5 | 55-6 | 55-7 | 55-8 | 55-10 | 55-11 | 56-0 | 56-2 | 56-3 | 56-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-1 |
| 275 | 16-11 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-0 | 17-1 | 17-1 |
| 300 | 20-1 | 20-2 | 20-2 | 20-2 | 20-3 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 |
| 325 | 23-8 | 23-8 | 23-8 | 23-9 | 23-9 | 23-9 | 23-10 | 23-10 | 23-10 | 23-11 |
| 350 | 27-5 | 27-6 | 27-6 | 27-7 | 27-7 | 27-7 | 27-8 | 27-8 | 27-9 | 27-9 |
| 375 | 31-7 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 | 31-9 | 31-10 | 31-10 | 31-11 |
| 400 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 | 36-3 | 36-4 |
| 425 | 40-7 | 40-8 | 40-9 | 40-9 | 40-10 | 40-10 | 40-11 | 41-0 | 41-0 | 41-1 |
| 450 | 45-7 | 45-8 | 45-9 | 45-9 | 45-10 | 45-11 | 45-11 | 46-0 | 46-1 | 46-1 |
| 475 | 50-11 | 50-11 | 51-0 | 51-1 | 51-2 | 51-2 | 51-3 | 51-4 | 51-5 | 51-5 |
| 500 | 56-6 | 56-7 | 56-7 | 56-8 | 56-9 | 56-10 | 56-11 | 57-0 | 57-0 | 57-1 |
| 525 | 62-5 | 62-5 | 62-6 | 62-7 | 62-8 | 62-9 | 62-10 | 62-11 | 63-0 | 63-1 |
| 550 | 68-7 | 68-8 | 68-9 | 68-10 | 68-11 | 69-0 | 69-1 | 69-2 | 69-3 | 69-4 |
| 575 | 75-1 | 75-2 | 75-3 | 75-4 | 75-6 | 75-7 | 75-8 | 75-9 | 75-10 | 75-11 |
| 600 | 81-11 | 82-0 | 82-2 | 82-3 | 82-4 | 82-5 | 82-6 | 82-8 | 82-9 | 82-10 |
| 625 | 89-1 | 89-2 | 89-4 | 89-5 | 89-6 | 89-8 | 89-9 | 89-10 | 89-11 | 90-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-1 |
| 275 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-0 | 17-1 | 17-1 | 17-1 |
| 300 | 20-2 | 20-2 | 20-2 | 20-2 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 |
| 325 | 23-8 | 23-8 | 23-9 | 23-9 | 23-9 | 23-10 | 23-10 | 23-10 | 23-11 | 23-11 |
| 350 | 27-6 | 27-6 | 27-6 | 27-7 | 27-7 | 27-8 | 27-8 | 27-8 | 27-9 | 27-9 |
| 375 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 | 31-10 | 31-10 | 31-11 |
| 400 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 | 36-3 | 36-4 | 36-4 |
| 425 | 40-8 | 40-8 | 40-9 | 40-10 | 40-10 | 40-11 | 40-11 | 41-0 | 41-0 | 41-1 |
| 450 | 45-8 | 45-8 | 45-9 | 45-10 | 45-10 | 45-11 | 46-0 | 46-0 | 46-1 | 46-2 |
| 475 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-3 | 51-4 | 51-4 | 51-5 | 51-6 |
| 500 | 56-6 | 56-7 | 56-8 | 56-9 | 56-10 | 56-10 | 56-11 | 57-0 | 57-1 | 57-2 |
| 525 | 62-5 | 62-6 | 62-7 | 62-8 | 62-9 | 62-10 | 62-10 | 62-11 | 63-0 | 63-1 |
| 550 | 68-8 | 68-9 | 68-10 | 68-11 | 69-0 | 69-1 | 69-2 | 69-3 | 69-4 | 69-5 |
| 575 | 75-2 | 75-3 | 75-4 | 75-5 | 75-6 | 75-7 | 75-8 | 75-9 | 75-11 | 76-0 |
| 600 | 82-0 | 82-1 | 82-2 | 82-3 | 82-5 | 82-6 | 82-7 | 82-8 | 82-9 | 82-11 |
| 625 | 89-2 | 89-3 | 89-4 | 89-6 | 89-7 | 89-8 | 89-10 | 89-11 | 90-0 | 90-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 1.63 | 2000 | 1.63 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 0.5 | 1196 | 0.49 | 1240 |
| 30 | 0 | 0 | 0 | 0.481 | 0.67 | 893 | 0.64 | 942 |
| 40 | 0 | 0 | 0 | 0.481 | 0.74 | 807 | 0.7 | 854 |
| 50 | 0 | 0 | 0 | 0.481 | 0.82 | 731 | 0.78 | 774 |
| 60 | 0 | 0 | 0 | 0.481 | 0.91 | 664 | 0.86 | 703 |
| 70 | 0 | 0 | 0 | 0.481 | 0.99 | 606 | 0.94 | 640 |
| 80 | 0 | 0 | 0 | 0.481 | 1.08 | 556 | 1.03 | 586 |
| 90 | 0 | 0 | 0 | 0.481 | 1.17 | 514 | 1.12 | 539 |
| 100 | 0 | 0 | 0 | 0.481 | 1.26 | 478 | 1.21 | 499 |
| 110 | 0 | 0 | 0 | 0.481 | 1.35 | 447 | 1.29 | 465 |
| 120 | 0 | 0 | 0 | 0.481 | 1.43 | 421 | 1.38 | 437 |
| 130 | 0 | 0 | 0 | 0.481 | 1.51 | 398 | 1.45 | 414 |
| 167 | 0 | 0 | 0 | 0.481 | 1.77 | 340 | 1.71 | 352 |
| 212 | 0 | 0 | 0 | 0.481 | 2.06 | 293 | 2 | 301 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 6.54 | 2000 | 6.54 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 5.15 | 468 | 5.07 | 476 |
| 30 | 0 | 0 | 0 | 0.481 | 5.47 | 441 | 5.39 | 448 |
| 40 | 0 | 0 | 0 | 0.481 | 5.57 | 433 | 5.49 | 439 |
| 50 | 0 | 0 | 0 | 0.481 | 5.67 | 426 | 5.59 | 431 |
| 60 | 0 | 0 | 0 | 0.481 | 5.77 | 419 | 5.69 | 424 |
| 70 | 0 | 0 | 0 | 0.481 | 5.86 | 412 | 5.79 | 417 |
| 80 | 0 | 0 | 0 | 0.481 | 5.96 | 405 | 5.89 | 410 |
| 90 | 0 | 0 | 0 | 0.481 | 6.05 | 399 | 5.99 | 403 |
| 100 | 0 | 0 | 0 | 0.481 | 6.14 | 393 | 6.08 | 397 |
| 110 | 0 | 0 | 0 | 0.481 | 6.24 | 387 | 6.18 | 391 |
| 120 | 0 | 0 | 0 | 0.481 | 6.33 | 382 | 6.26 | 386 |
| 130 | 0 | 0 | 0 | 0.481 | 6.41 | 377 | 6.34 | 381 |
| 167 | 0 | 0 | 0 | 0.481 | 6.7 | 360 | 6.64 | 364 |
| 212 | 0 | 0 | 0 | 0.481 | 7.05 | 343 | 6.98 | 346 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 14.81 | 2000 | 14.81 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 13.46 | 405 | 13.38 | 408 |
| 30 | 0 | 0 | 0 | 0.481 | 13.75 | 397 | 13.67 | 399 |
| 40 | 0 | 0 | 0 | 0.481 | 13.84 | 394 | 13.77 | 396 |
| 50 | 0 | 0 | 0 | 0.481 | 13.94 | 392 | 13.87 | 394 |
| 60 | 0 | 0 | 0 | 0.481 | 14.03 | 389 | 13.96 | 391 |
| 70 | 0 | 0 | 0 | 0.481 | 14.13 | 386 | 14.06 | 388 |
| 80 | 0 | 0 | 0 | 0.481 | 14.22 | 384 | 14.15 | 386 |
| 90 | 0 | 0 | 0 | 0.481 | 14.31 | 382 | 14.25 | 383 |
| 100 | 0 | 0 | 0 | 0.481 | 14.4 | 379 | 14.34 | 381 |
| 110 | 0 | 0 | 0 | 0.481 | 14.49 | 377 | 14.44 | 378 |
| 120 | 0 | 0 | 0 | 0.481 | 14.58 | 375 | 14.52 | 376 |
| 130 | 0 | 0 | 0 | 0.481 | 14.67 | 372 | 14.6 | 374 |
| 167 | 0 | 0 | 0 | 0.481 | 14.97 | 365 | 14.9 | 367 |
| 212 | 0 | 0 | 0 | 0.481 | 15.33 | 357 | 15.26 | 358 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 2.607 | 26.53 | 2000 | 26.53 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 25.2 | 388 | 25.12 | 389 |
| 30 | 0 | 0 | 0 | 0.481 | 25.48 | 384 | 25.4 | 385 |
| 40 | 0 | 0 | 0 | 0.481 | 25.57 | 382 | 25.5 | 383 |
| 50 | 0 | 0 | 0 | 0.481 | 25.66 | 381 | 25.59 | 382 |
| 60 | 0 | 0 | 0 | 0.481 | 25.76 | 380 | 25.69 | 381 |
| 70 | 0 | 0 | 0 | 0.481 | 25.85 | 378 | 25.78 | 379 |
| 80 | 0 | 0 | 0 | 0.481 | 25.94 | 377 | 25.88 | 378 |
| 90 | 0 | 0 | 0 | 0.481 | 26.03 | 376 | 25.97 | 377 |
| 100 | 0 | 0 | 0 | 0.481 | 26.12 | 375 | 26.06 | 375 |
| 110 | 0 | 0 | 0 | 0.481 | 26.21 | 373 | 26.15 | 374 |
| 120 | 0 | 0 | 0 | 0.481 | 26.3 | 372 | 26.24 | 373 |
| 130 | 0 | 0 | 0 | 0.481 | 26.39 | 371 | 26.32 | 372 |
| 167 | 0 | 0 | 0 | 0.481 | 26.69 | 367 | 26.62 | 368 |
| 212 | 0 | 0 | 0 | 0.481 | 27.06 | 362 | 26.99 | 363 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 32 | 0 | 2.607 | 41.88 | 2000 | 41.88 | 2000* |
| 0 | 0 | 0 | 0 | 0.481 | 40.56 | 380 | 40.48 | 381 |
| 30 | 0 | 0 | 0 | 0.481 | 40.83 | 378 | 40.76 | 379 |
| 40 | 0 | 0 | 0 | 0.481 | 40.92 | 377 | 40.85 | 378 |
| 50 | 0 | 0 | 0 | 0.481 | 41.02 | 376 | 40.95 | 377 |
| 60 | 0 | 0 | 0 | 0.481 | 41.11 | 376 | 41.04 | 376 |
| 70 | 0 | 0 | 0 | 0.481 | 41.2 | 375 | 41.13 | 375 |
| 80 | 0 | 0 | 0 | 0.481 | 41.29 | 374 | 41.23 | 375 |
| 90 | 0 | 0 | 0 | 0.481 | 41.38 | 373 | 41.32 | 374 |
| 100 | 0 | 0 | 0 | 0.481 | 41.47 | 372 | 41.41 | 373 |
| 110 | 0 | 0 | 0 | 0.481 | 41.56 | 372 | 41.5 | 372 |
| 120 | 0 | 0 | 0 | 0.481 | 41.65 | 371 | 41.59 | 371 |
| 130 | 0 | 0 | 0 | 0.481 | 41.74 | 370 | 41.67 | 371 |
| 167 | 0 | 0 | 0 | 0.481 | 42.04 | 368 | 41.97 | 368 |
| 212 | 0 | 0 | 0 | 0.481 | 42.41 | 365 | 42.34 | 365 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 125 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 |
| 150 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 |
| 175 | 1-9 | 1-11 | 2-2 | 2-5 | 2-7 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 |
| 200 | 2-4 | 2-7 | 2-10 | 3-1 | 3-5 | 3-9 | 4-1 | 4-6 | 4-10 | 5-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100 | 0-7 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 125 | 0-11 | 1-1 | 1-2 | 1-3 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-1 |
| 150 | 1-4 | 1-6 | 1-8 | 1-10 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-0 |
| 175 | 1-10 | 2-1 | 2-3 | 2-6 | 2-9 | 3-0 | 3-4 | 3-7 | 3-10 | 4-1 |
| 200 | 2-5 | 2-8 | 3-0 | 3-4 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 | 5-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 |
| 125 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 |
| 150 | 3-0 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 |
| 175 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
| 200 | 5-3 | 5-5 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 |
| 225 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 |
| 250 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-6 | 1-7 |
| 125 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 150 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 175 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 |
| 200 | 5-4 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 |
| 225 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 |
| 250 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 |
| 175 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 |
| 200 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 |
| 225 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 |
| 250 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 |
| 275 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-1 |
| 300 | 13-7 | 13-8 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 |
| 325 | 15-11 | 16-1 | 16-2 | 16-3 | 16-5 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 |
| 350 | 18-6 | 18-8 | 18-9 | 18-11 | 19-0 | 19-2 | 19-3 | 19-5 | 19-7 | 19-8 |
| 375 | 21-3 | 21-5 | 21-7 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-5 | 22-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 | 3-7 |
| 175 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 |
| 200 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 |
| 225 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 |
| 250 | 9-6 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 | 10-1 |
| 275 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 300 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 |
| 325 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 |
| 350 | 18-7 | 18-9 | 18-10 | 19-0 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 | 19-9 |
| 375 | 21-4 | 21-6 | 21-8 | 21-10 | 22-0 | 22-1 | 22-3 | 22-5 | 22-7 | 22-8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 |
| 225 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 |
| 250 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 |
| 275 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 |
| 300 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 | 14-8 |
| 325 | 16-8 | 16-9 | 16-10 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 |
| 350 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 | 19-11 | 20-0 |
| 375 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 |
| 400 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-11 | 26-0 | 26-1 | 26-2 |
| 425 | 28-7 | 28-8 | 28-10 | 28-11 | 29-0 | 29-2 | 29-3 | 29-4 | 29-5 | 29-7 |
| 450 | 32-1 | 32-2 | 32-4 | 32-5 | 32-7 | 32-8 | 32-10 | 32-11 | 33-0 | 33-2 |
| 475 | 35-9 | 35-11 | 36-0 | 36-2 | 36-4 | 36-5 | 36-7 | 36-8 | 36-10 | 37-0 |
| 500 | 39-8 | 39-10 | 40-0 | 40-1 | 40-3 | 40-5 | 40-7 | 40-8 | 40-10 | 41-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 |
| 225 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 |
| 250 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 |
| 275 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 |
| 300 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-7 | 14-7 | 14-8 | 14-9 |
| 325 | 16-9 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 | 17-3 | 17-3 |
| 350 | 19-5 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 |
| 375 | 22-4 | 22-5 | 22-6 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 |
| 400 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 | 26-0 | 26-1 | 26-3 |
| 425 | 28-8 | 28-9 | 28-11 | 29-0 | 29-1 | 29-2 | 29-4 | 29-5 | 29-6 | 29-7 |
| 450 | 32-2 | 32-3 | 32-5 | 32-6 | 32-8 | 32-9 | 32-11 | 33-0 | 33-1 | 33-3 |
| 475 | 35-10 | 36-0 | 36-2 | 36-3 | 36-5 | 36-6 | 36-8 | 36-10 | 36-11 | 37-1 |
| 500 | 39-9 | 39-11 | 40-1 | 40-3 | 40-4 | 40-6 | 40-8 | 40-10 | 40-11 | 41-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-3 | 10-4 |
| 275 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-6 |
| 300 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 | 14-10 | 14-10 |
| 325 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 | 17-5 |
| 350 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 | 20-2 | 20-2 | 20-3 |
| 375 | 22-9 | 22-10 | 22-11 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 |
| 400 | 25-11 | 26-0 | 26-1 | 26-1 | 26-2 | 26-3 | 26-4 | 26-4 | 26-5 | 26-6 |
| 425 | 29-4 | 29-5 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-9 | 29-10 | 29-11 |
| 450 | 32-11 | 33-0 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 | 33-5 | 33-6 | 33-7 |
| 475 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 |
| 500 | 40-8 | 40-9 | 40-10 | 40-11 | 41-0 | 41-2 | 41-3 | 41-4 | 41-5 | 41-6 |
| 525 | 44-10 | 45-0 | 45-1 | 45-2 | 45-3 | 45-5 | 45-6 | 45-7 | 45-8 | 45-10 |
| 550 | 49-4 | 49-5 | 49-6 | 49-8 | 49-9 | 49-10 | 50-0 | 50-1 | 50-2 | 50-4 |
| 575 | 53-11 | 54-1 | 54-2 | 54-4 | 54-5 | 54-7 | 54-8 | 54-10 | 54-11 | 55-1 |
| 600 | 58-9 | 58-11 | 59-1 | 59-2 | 59-4 | 59-6 | 59-7 | 59-9 | 59-10 | 60-0 |
| 625 | 63-10 | 64-0 | 64-2 | 64-4 | 64-5 | 64-7 | 64-9 | 64-11 | 65-0 | 65-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 |
| 275 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 |
| 300 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 |
| 325 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-4 | 17-5 | 17-5 | 17-6 |
| 350 | 19-10 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 | 20-2 | 20-2 | 20-3 | 20-3 |
| 375 | 22-10 | 22-11 | 22-11 | 23-0 | 23-0 | 23-1 | 23-2 | 23-2 | 23-3 | 23-3 |
| 400 | 26-0 | 26-1 | 26-1 | 26-2 | 26-3 | 26-3 | 26-4 | 26-5 | 26-5 | 26-6 |
| 425 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-8 | 29-9 | 29-10 | 29-11 | 29-11 |
| 450 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 | 33-5 | 33-6 | 33-6 | 33-7 |
| 475 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 |
| 500 | 40-9 | 40-10 | 40-11 | 41-0 | 41-1 | 41-2 | 41-3 | 41-5 | 41-6 | 41-7 |
| 525 | 44-11 | 45-1 | 45-2 | 45-3 | 45-4 | 45-6 | 45-7 | 45-8 | 45-9 | 45-10 |
| 550 | 49-5 | 49-6 | 49-7 | 49-9 | 49-10 | 49-11 | 50-1 | 50-2 | 50-3 | 50-5 |
| 575 | 54-0 | 54-2 | 54-3 | 54-5 | 54-6 | 54-8 | 54-9 | 54-11 | 55-0 | 55-2 |
| 600 | 58-11 | 59-0 | 59-2 | 59-4 | 59-5 | 59-7 | 59-8 | 59-10 | 59-11 | 60-1 |
| 625 | 64-0 | 64-1 | 64-3 | 64-5 | 64-7 | 64-8 | 64-10 | 65-0 | 65-2 | 65-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 3/0 RTS TRIPLEX CONDUCTOR.
CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION
1000 LB TENSION ---------- 822.2
1500 LB TENSION ---------- 822.10
2000 LB TENSION ---------- 822.18

G.O. 95 HEAVY LOADING CONDITION
1000 LB TENSION ---------- 822.26
1500 LB TENSION ---------- 822.34
2000 LB TENSION ---------- 822.42

SDG&E EXTRA HEAVY LOADING CONDITION
1000 LB TENSION ---------- 822.50
1500 LB TENSION ---------- 822.56
2000 LB TENSION ---------- 822.64

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 822.72
1500 LB TENSION ---------- 822.80
2000 LB TENSION ---------- 822.88

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 822.96
1500 LB TENSION ---------- 822.104
2000 LB TENSION ---------- 822.112

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 822.120
1500 LB TENSION ---------- 822.128
2000 LB TENSION ---------- 822.136

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 822.144
1500 LB TENSION ---------- 822.152
2000 LB TENSION ---------- 822.160

111 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 822.168
1500 LB TENSION ---------- 822.176
2000 LB TENSION ---------- 822.184

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 822.192
1500 LB TENSION ---------- 822.200
2000 LB TENSION ---------- 822.208


**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

3/0 RTS TRIPLEX TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 1.25 | 1000 | 1.25 | 1000* |
| 25 | 0 | 0 | 0 | 0.629 | 1.02 | 769 | 1.01 | 776 |
| 30 | 0 | 0 | 0 | 0.629 | 1.06 | 740 | 1.05 | 747 |
| 40 | 0 | 0 | 0 | 0.629 | 1.14 | 688 | 1.13 | 695 |
| 50 | 0 | 0 | 0 | 0.629 | 1.22 | 643 | 1.21 | 648 |
| 60 | 0 | 0 | 0 | 0.629 | 1.31 | 603 | 1.29 | 608 |
| 70 | 0 | 0 | 0 | 0.629 | 1.39 | 568 | 1.38 | 572 |
| 80 | 0 | 0 | 0 | 0.629 | 1.47 | 537 | 1.46 | 541 |
| 90 | 0 | 0 | 0 | 0.629 | 1.54 | 510 | 1.53 | 513 |
| 100 | 0 | 0 | 0 | 0.629 | 1.62 | 486 | 1.61 | 488 |
| 110 | 0 | 0 | 0 | 0.629 | 1.69 | 465 | 1.69 | 466 |
| 120 | 0 | 0 | 0 | 0.629 | 1.77 | 446 | 1.76 | 447 |
| 130 | 0 | 0 | 0 | 0.629 | 1.84 | 428 | 1.82 | 432 |
| 167 | 0 | 0 | 0 | 0.629 | 2.07 | 381 | 2.05 | 385 |
| 212 | 0 | 0 | 0 | 0.629 | 2.32 | 339 | 2.3 | 343 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 5.02 | 1000 | 5.02 | 1000* |
| 25 | 0 | 0 | 0 | 0.629 | 4.71 | 669 | 4.69 | 672 |
| 30 | 0 | 0 | 0 | 0.629 | 4.76 | 662 | 4.75 | 664 |
| 40 | 0 | 0 | 0 | 0.629 | 4.87 | 647 | 4.86 | 649 |
| 50 | 0 | 0 | 0 | 0.629 | 4.98 | 633 | 4.97 | 635 |
| 60 | 0 | 0 | 0 | 0.629 | 5.09 | 620 | 5.07 | 622 |
| 70 | 0 | 0 | 0 | 0.629 | 5.19 | 607 | 5.18 | 609 |
| 80 | 0 | 0 | 0 | 0.629 | 5.29 | 596 | 5.28 | 597 |
| 90 | 0 | 0 | 0 | 0.629 | 5.4 | 585 | 5.39 | 586 |
| 100 | 0 | 0 | 0 | 0.629 | 5.5 | 574 | 5.49 | 575 |
| 110 | 0 | 0 | 0 | 0.629 | 5.59 | 564 | 5.59 | 564 |
| 120 | 0 | 0 | 0 | 0.629 | 5.69 | 554 | 5.69 | 555 |
| 130 | 0 | 0 | 0 | 0.629 | 5.79 | 545 | 5.79 | 545 |
| 167 | 0 | 0 | 0 | 0.629 | 6.12 | 516 | 6.1 | 518 |
| 212 | 0 | 0 | 0 | 0.629 | 6.48 | 487 | 6.46 | 489 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 11.33 | 1000 | 11.33 | 1000* |
| 25 | 0 | 0 | 0 | 0.629 | 11 | 647 | 10.98 | 648 |
| 30 | 0 | 0 | 0 | 0.629 | 11.06 | 643 | 11.04 | 644 |
| 40 | 0 | 0 | 0 | 0.629 | 11.17 | 637 | 11.16 | 638 |
| 50 | 0 | 0 | 0 | 0.629 | 11.29 | 631 | 11.27 | 631 |
| 60 | 0 | 0 | 0 | 0.629 | 11.4 | 624 | 11.38 | 625 |
| 70 | 0 | 0 | 0 | 0.629 | 11.51 | 618 | 11.5 | 619 |
| 80 | 0 | 0 | 0 | 0.629 | 11.62 | 613 | 11.61 | 613 |
| 90 | 0 | 0 | 0 | 0.629 | 11.73 | 607 | 11.72 | 607 |
| 100 | 0 | 0 | 0 | 0.629 | 11.84 | 601 | 11.83 | 602 |
| 110 | 0 | 0 | 0 | 0.629 | 11.95 | 596 | 11.94 | 596 |
| 120 | 0 | 0 | 0 | 0.629 | 12.05 | 591 | 12.05 | 591 |
| 130 | 0 | 0 | 0 | 0.629 | 12.16 | 586 | 12.16 | 586 |
| 167 | 0 | 0 | 0 | 0.629 | 12.53 | 568 | 12.52 | 569 |
| 212 | 0 | 0 | 0 | 0.629 | 12.95 | 550 | 12.93 | 551 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 20.22 | 1000 | 20.22 | 1000* |
| 25 | 0 | 0 | 0 | 0.629 | 19.9 | 639 | 19.88 | 639 |
| 30 | 0 | 0 | 0 | 0.629 | 19.95 | 637 | 19.93 | 637 |
| 40 | 0 | 0 | 0 | 0.629 | 20.07 | 633 | 20.05 | 634 |
| 50 | 0 | 0 | 0 | 0.629 | 20.19 | 630 | 20.17 | 630 |
| 60 | 0 | 0 | 0 | 0.629 | 20.3 | 626 | 20.29 | 627 |
| 70 | 0 | 0 | 0 | 0.629 | 20.41 | 623 | 20.4 | 623 |
| 80 | 0 | 0 | 0 | 0.629 | 20.53 | 619 | 20.52 | 620 |
| 90 | 0 | 0 | 0 | 0.629 | 20.64 | 616 | 20.63 | 616 |
| 100 | 0 | 0 | 0 | 0.629 | 20.75 | 613 | 20.75 | 613 |
| 110 | 0 | 0 | 0 | 0.629 | 20.86 | 609 | 20.86 | 610 |
| 120 | 0 | 0 | 0 | 0.629 | 20.98 | 606 | 20.97 | 606 |
| 130 | 0 | 0 | 0 | 0.629 | 21.09 | 603 | 21.09 | 603 |
| 167 | 0 | 0 | 0 | 0.629 | 21.48 | 592 | 21.47 | 593 |
| 212 | 0 | 0 | 0 | 0.629 | 21.93 | 581 | 21.91 | 581 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 31.79 | 1000 | 31.79 | 1000* |
| 25 | 0 | 0 | 0 | 0.629 | 31.46 | 635 | 31.44 | 635 |
| 30 | 0 | 0 | 0 | 0.629 | 31.51 | 634 | 31.49 | 634 |
| 40 | 0 | 0 | 0 | 0.629 | 31.63 | 631 | 31.61 | 632 |
| 50 | 0 | 0 | 0 | 0.629 | 31.75 | 629 | 31.73 | 629 |
| 60 | 0 | 0 | 0 | 0.629 | 31.86 | 627 | 31.85 | 627 |
| 70 | 0 | 0 | 0 | 0.629 | 31.98 | 625 | 31.97 | 625 |
| 80 | 0 | 0 | 0 | 0.629 | 32.09 | 623 | 32.08 | 623 |
| 90 | 0 | 0 | 0 | 0.629 | 32.21 | 620 | 32.2 | 621 |
| 100 | 0 | 0 | 0 | 0.629 | 32.32 | 618 | 32.32 | 618 |
| 110 | 0 | 0 | 0 | 0.629 | 32.44 | 616 | 32.43 | 616 |
| 120 | 0 | 0 | 0 | 0.629 | 32.55 | 614 | 32.55 | 614 |
| 130 | 0 | 0 | 0 | 0.629 | 32.66 | 612 | 32.66 | 612 |
| 167 | 0 | 0 | 0 | 0.629 | 33.07 | 605 | 33.06 | 605 |
| 212 | 0 | 0 | 0 | 0.629 | 33.53 | 597 | 33.51 | 597 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 150.00 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 |
| 175.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-2 |
| 200.00 | 3-11 | 4-3 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-5 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 125.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 150.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-10 |
| 175.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 |
| 200.00 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-6 | 6-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.5

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 |
| 150.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 |
| 175.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 |
| 200.00 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-3 | 5-5 | 5-6 | 5-7 |
| 225.00 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 |
| 250.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-4 | 1-5 |
| 125.00 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 |
| 150.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 |
| 175.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 |
| 200.00 | 4-8 | 4-9 | 4-10 | 5-0 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 |
| 225.00 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 | 7-1 |
| 250.00 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.6

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 |
| 175.00 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 |
| 200.00 | 4-10 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 |
| 225.00 | 6-2 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 |
| 250.00 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-3 |
| 275.00 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 300.00 | 10-11 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 |
| 325.00 | 12-10 | 13-0 | 13-1 | 13-3 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 | 14-0 |
| 350.00 | 14-11 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-1 | 16-3 |
| 375.00 | 17-1 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 |
| 175.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 |
| 200.00 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 |
| 225.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 |
| 250.00 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-3 |
| 275.00 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 |
| 300.00 | 10-11 | 11-1 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 |
| 325.00 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 | 13-6 | 13-8 | 13-9 | 13-11 | 14-0 |
| 350.00 | 14-11 | 15-1 | 15-3 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-3 |
| 375.00 | 17-1 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 |
| 225.00 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 |
| 250.00 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 |
| 275.00 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 |
| 300.00 | 11-2 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 |
| 325.00 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 |
| 350.00 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 |
| 375.00 | 17-5 | 17-6 | 17-7 | 17-9 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 |
| 400.00 | 19-10 | 19-11 | 20-1 | 20-2 | 20-3 | 20-5 | 20-6 | 20-8 | 20-9 | 20-10 |
| 425.00 | 22-5 | 22-6 | 22-8 | 22-9 | 22-11 | 23-0 | 23-2 | 23-4 | 23-5 | 23-7 |
| 450.00 | 25-1 | 25-3 | 25-5 | 25-7 | 25-8 | 25-10 | 26-0 | 26-2 | 26-3 | 26-5 |
| 475.00 | 28-0 | 28-2 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-4 | 29-6 |
| 500.00 | 31-0 | 31-2 | 31-5 | 31-7 | 31-9 | 31-11 | 32-1 | 32-4 | 32-6 | 32-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 |
| 225.00 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 |
| 250.00 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 |
| 275.00 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 |
| 300.00 | 11-2 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 | 11-9 |
| 325.00 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-9 |
| 350.00 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-11 | 16-0 |
| 375.00 | 17-5 | 17-6 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 |
| 400.00 | 19-10 | 19-11 | 20-1 | 20-2 | 20-4 | 20-5 | 20-6 | 20-8 | 20-9 | 20-10 |
| 425.00 | 22-5 | 22-6 | 22-8 | 22-10 | 22-11 | 23-1 | 23-2 | 23-4 | 23-5 | 23-7 |
| 450.00 | 25-2 | 25-3 | 25-5 | 25-7 | 25-9 | 25-10 | 26-0 | 26-2 | 26-3 | 26-5 |
| 475.00 | 28-0 | 28-2 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-4 | 29-6 |
| 500.00 | 31-1 | 31-3 | 31-5 | 31-7 | 31-9 | 32-0 | 32-2 | 32-4 | 32-6 | 32-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 |
| 275.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 |
| 300.00 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 |
| 325.00 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 |
| 350.00 | 15-4 | 15-5 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 | 15-9 | 15-9 | 15-10 |
| 375.00 | 17-7 | 17-8 | 17-9 | 17-10 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-2 |
| 400.00 | 20-1 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 |
| 425.00 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 |
| 450.00 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 26-0 | 26-1 | 26-2 | 26-3 |
| 475.00 | 28-4 | 28-5 | 28-6 | 28-7 | 28-9 | 28-10 | 28-11 | 29-1 | 29-2 | 29-3 |
| 500.00 | 31-5 | 31-6 | 31-7 | 31-9 | 31-10 | 32-0 | 32-1 | 32-2 | 32-4 | 32-5 |
| 525.00 | 34-7 | 34-9 | 34-10 | 35-0 | 35-2 | 35-3 | 35-5 | 35-6 | 35-8 | 35-9 |
| 550.00 | 38-0 | 38-2 | 38-4 | 38-5 | 38-7 | 38-9 | 38-10 | 39-0 | 39-2 | 39-3 |
| 575.00 | 41-7 | 41-9 | 41-11 | 42-0 | 42-2 | 42-4 | 42-6 | 42-8 | 42-10 | 43-0 |
| 600.00 | 45-3 | 45-5 | 45-8 | 45-10 | 46-0 | 46-2 | 46-4 | 46-6 | 46-8 | 46-10 |
| 625.00 | 49-2 | 49-4 | 49-6 | 49-9 | 49-11 | 50-1 | 50-3 | 50-6 | 50-8 | 50-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 250.00 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 |
| 275.00 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 |
| 300.00 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 |
| 325.00 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-6 | 13-6 | 13-7 | 13-7 | 13-8 |
| 350.00 | 15-4 | 15-5 | 15-5 | 15-6 | 15-7 | 15-8 | 15-8 | 15-9 | 15-10 | 15-10 |
| 375.00 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 17-11 | 18-0 | 18-1 | 18-2 | 18-2 |
| 400.00 | 20-1 | 20-2 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 |
| 425.00 | 22-8 | 22-9 | 22-10 | 22-11 | 23-0 | 23-1 | 23-2 | 23-3 | 23-4 | 23-5 |
| 450.00 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-11 | 26-0 | 26-1 | 26-2 | 26-3 |
| 475.00 | 28-4 | 28-5 | 28-6 | 28-8 | 28-9 | 28-10 | 28-11 | 29-1 | 29-2 | 29-3 |
| 500.00 | 31-5 | 31-6 | 31-8 | 31-9 | 31-10 | 32-0 | 32-1 | 32-3 | 32-4 | 32-5 |
| 525.00 | 34-8 | 34-9 | 34-11 | 35-0 | 35-2 | 35-3 | 35-5 | 35-6 | 35-8 | 35-9 |
| 550.00 | 38-0 | 38-2 | 38-4 | 38-5 | 38-7 | 38-9 | 38-11 | 39-0 | 39-2 | 39-4 |
| 575.00 | 41-7 | 41-9 | 41-11 | 42-1 | 42-3 | 42-4 | 42-6 | 42-8 | 42-10 | 43-0 |
| 600.00 | 45-4 | 45-6 | 45-8 | 45-10 | 46-0 | 46-2 | 46-4 | 46-6 | 46-8 | 46-10 |
| 625.00 | 49-2 | 49-5 | 49-7 | 49-9 | 49-11 | 50-1 | 50-4 | 50-6 | 50-8 | 50-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.9

TABLE OF CONTENTS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 0.83 | 1500 | 0.83 | 1500* |
| 25 | 0 | 0 | 0 | 0.629 | 0.59 | 1344 | 0.58 | 1351 |
| 30 | 0 | 0 | 0 | 0.629 | 0.61 | 1291 | 0.6 | 1301 |
| 40 | 0 | 0 | 0 | 0.629 | 0.66 | 1189 | 0.65 | 1203 |
| 50 | 0 | 0 | 0 | 0.629 | 0.72 | 1094 | 0.71 | 1110 |
| 60 | 0 | 0 | 0 | 0.629 | 0.78 | 1005 | 0.77 | 1022 |
| 70 | 0 | 0 | 0 | 0.629 | 0.85 | 924 | 0.84 | 941 |
| 80 | 0 | 0 | 0 | 0.629 | 0.92 | 851 | 0.91 | 868 |
| 90 | 0 | 0 | 0 | 0.629 | 1 | 786 | 0.98 | 801 |
| 100 | 0 | 0 | 0 | 0.629 | 1.08 | 728 | 1.06 | 742 |
| 110 | 0 | 0 | 0 | 0.629 | 1.16 | 677 | 1.14 | 689 |
| 120 | 0 | 0 | 0 | 0.629 | 1.24 | 633 | 1.22 | 643 |
| 130 | 0 | 0 | 0 | 0.629 | 1.32 | 594 | 1.31 | 603 |
| 167 | 0 | 0 | 0 | 0.629 | 1.6 | 492 | 1.57 | 503 |
| 212 | 0 | 0 | 0 | 0.629 | 1.89 | 416 | 1.86 | 424 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 3.34 | 1500 | 3.34 | 1500* |
| 25 | 0 | 0 | 0 | 0.629 | 2.79 | 1128 | 2.77 | 1137 |
| 30 | 0 | 0 | 0 | 0.629 | 2.86 | 1102 | 2.83 | 1111 |
| 40 | 0 | 0 | 0 | 0.629 | 2.98 | 1055 | 2.96 | 1064 |
| 50 | 0 | 0 | 0 | 0.629 | 3.11 | 1011 | 3.09 | 1020 |
| 60 | 0 | 0 | 0 | 0.629 | 3.24 | 971 | 3.21 | 980 |
| 70 | 0 | 0 | 0 | 0.629 | 3.37 | 934 | 3.34 | 942 |
| 80 | 0 | 0 | 0 | 0.629 | 3.5 | 900 | 3.47 | 907 |
| 90 | 0 | 0 | 0 | 0.629 | 3.62 | 869 | 3.6 | 876 |
| 100 | 0 | 0 | 0 | 0.629 | 3.75 | 840 | 3.72 | 846 |
| 110 | 0 | 0 | 0 | 0.629 | 3.87 | 813 | 3.85 | 819 |
| 120 | 0 | 0 | 0 | 0.629 | 3.99 | 789 | 3.97 | 793 |
| 130 | 0 | 0 | 0 | 0.629 | 4.12 | 766 | 4.09 | 770 |
| 167 | 0 | 0 | 0 | 0.629 | 4.55 | 693 | 4.51 | 698 |
| 212 | 0 | 0 | 0 | 0.629 | 4.99 | 632 | 4.96 | 636 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 7.53 | 1500 | 7.53 | 1500* |
| 25 | 0 | 0 | 0 | 0.629 | 6.86 | 1033 | 6.83 | 1038 |
| 30 | 0 | 0 | 0 | 0.629 | 6.94 | 1021 | 6.91 | 1026 |
| 40 | 0 | 0 | 0 | 0.629 | 7.1 | 999 | 7.07 | 1004 |
| 50 | 0 | 0 | 0 | 0.629 | 7.26 | 977 | 7.22 | 982 |
| 60 | 0 | 0 | 0 | 0.629 | 7.41 | 957 | 7.38 | 962 |
| 70 | 0 | 0 | 0 | 0.629 | 7.56 | 938 | 7.53 | 942 |
| 80 | 0 | 0 | 0 | 0.629 | 7.71 | 920 | 7.68 | 924 |
| 90 | 0 | 0 | 0 | 0.629 | 7.86 | 903 | 7.83 | 906 |
| 100 | 0 | 0 | 0 | 0.629 | 8.01 | 886 | 7.98 | 889 |
| 110 | 0 | 0 | 0 | 0.629 | 8.15 | 871 | 8.13 | 873 |
| 120 | 0 | 0 | 0 | 0.629 | 8.3 | 856 | 8.27 | 858 |
| 130 | 0 | 0 | 0 | 0.629 | 8.44 | 841 | 8.42 | 843 |
| 167 | 0 | 0 | 0 | 0.629 | 8.95 | 793 | 8.93 | 795 |
| 212 | 0 | 0 | 0 | 0.629 | 9.51 | 747 | 9.47 | 750 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 13.41 | 1500 | 13.41 | 1500* |
| 25 | 0 | 0 | 0 | 0.629 | 12.7 | 994 | 12.66 | 997 |
| 30 | 0 | 0 | 0 | 0.629 | 12.79 | 988 | 12.75 | 991 |
| 40 | 0 | 0 | 0 | 0.629 | 12.95 | 975 | 12.91 | 978 |
| 50 | 0 | 0 | 0 | 0.629 | 13.12 | 963 | 13.08 | 966 |
| 60 | 0 | 0 | 0 | 0.629 | 13.28 | 951 | 13.25 | 954 |
| 70 | 0 | 0 | 0 | 0.629 | 13.44 | 940 | 13.41 | 942 |
| 80 | 0 | 0 | 0 | 0.629 | 13.61 | 929 | 13.57 | 931 |
| 90 | 0 | 0 | 0 | 0.629 | 13.76 | 918 | 13.73 | 920 |
| 100 | 0 | 0 | 0 | 0.629 | 13.92 | 908 | 13.89 | 910 |
| 110 | 0 | 0 | 0 | 0.629 | 14.08 | 898 | 14.05 | 900 |
| 120 | 0 | 0 | 0 | 0.629 | 14.23 | 888 | 14.21 | 890 |
| 130 | 0 | 0 | 0 | 0.629 | 14.39 | 879 | 14.37 | 880 |
| 167 | 0 | 0 | 0 | 0.629 | 14.95 | 846 | 14.94 | 847 |
| 212 | 0 | 0 | 0 | 0.629 | 15.57 | 813 | 15.54 | 815 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 21 | 1500 | 21 | 1500* |
| 25 | 0 | 0 | 0 | 0.629 | 20.28 | 976 | 20.24 | 978 |
| 30 | 0 | 0 | 0 | 0.629 | 20.36 | 972 | 20.32 | 974 |
| 40 | 0 | 0 | 0 | 0.629 | 20.54 | 964 | 20.49 | 966 |
| 50 | 0 | 0 | 0 | 0.629 | 20.7 | 956 | 20.66 | 958 |
| 60 | 0 | 0 | 0 | 0.629 | 20.87 | 948 | 20.83 | 950 |
| 70 | 0 | 0 | 0 | 0.629 | 21.04 | 941 | 21 | 942 |
| 80 | 0 | 0 | 0 | 0.629 | 21.21 | 934 | 21.17 | 935 |
| 90 | 0 | 0 | 0 | 0.629 | 21.37 | 926 | 21.34 | 928 |
| 100 | 0 | 0 | 0 | 0.629 | 21.54 | 920 | 21.5 | 921 |
| 110 | 0 | 0 | 0 | 0.629 | 21.7 | 913 | 21.67 | 914 |
| 120 | 0 | 0 | 0 | 0.629 | 21.86 | 906 | 21.84 | 907 |
| 130 | 0 | 0 | 0 | 0.629 | 22.02 | 900 | 22 | 900 |
| 167 | 0 | 0 | 0 | 0.629 | 22.61 | 877 | 22.6 | 877 |
| 212 | 0 | 0 | 0 | 0.629 | 23.28 | 852 | 23.24 | 853 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 125.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 |
| 150.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-0 | 2-3 | 2-5 | 2-7 |
| 175.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 |
| 200.00 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 100.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 125.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 |
| 150.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 |
| 175.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 |
| 200.00 | 2-3 | 2-5 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 |
| 150.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-2 |
| 175.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 |
| 200.00 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 |
| 225.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 |
| 250.00 | 4-3 | 4-5 | 4-7 | 4-10 | 5-0 | 5-3 | 5-5 | 5-7 | 5-10 | 6-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 125.00 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 |
| 150.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 |
| 175.00 | 2-1 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 |
| 200.00 | 2-9 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 |
| 225.00 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 |
| 250.00 | 4-3 | 4-6 | 4-8 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 |
| 175.00 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 |
| 200.00 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 |
| 225.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 250.00 | 4-8 | 4-10 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-6 | 5-8 |
| 275.00 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 |
| 300.00 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 |
| 325.00 | 7-11 | 8-1 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 |
| 350.00 | 9-2 | 9-5 | 9-7 | 9-10 | 10-1 | 10-3 | 10-5 | 10-8 | 10-10 | 11-1 |
| 375.00 | 10-7 | 10-10 | 11-1 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 | 12-6 | 12-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 |
| 175.00 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 |
| 200.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 |
| 225.00 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 |
| 250.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-5 | 5-7 | 5-8 |
| 275.00 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 |
| 300.00 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-10 | 8-0 | 8-2 |
| 325.00 | 8-0 | 8-2 | 8-4 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 |
| 350.00 | 9-3 | 9-5 | 9-8 | 9-11 | 10-1 | 10-4 | 10-6 | 10-8 | 10-11 | 11-1 |
| 375.00 | 10-7 | 10-10 | 11-1 | 11-4 | 11-7 | 11-10 | 12-1 | 12-3 | 12-6 | 12-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 |
| 225.00 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 |
| 250.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 |
| 275.00 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 300.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 |
| 325.00 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 |
| 350.00 | 9-8 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 |
| 375.00 | 11-1 | 11-2 | 11-4 | 11-6 | 11-8 | 11-9 | 11-11 | 12-1 | 12-2 | 12-4 |
| 400.00 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 |
| 425.00 | 14-2 | 14-5 | 14-7 | 14-9 | 14-11 | 15-2 | 15-4 | 15-6 | 15-8 | 15-10 |
| 450.00 | 15-11 | 16-2 | 16-4 | 16-7 | 16-9 | 17-0 | 17-2 | 17-5 | 17-7 | 17-9 |
| 475.00 | 17-9 | 18-0 | 18-3 | 18-5 | 18-8 | 18-11 | 19-2 | 19-5 | 19-7 | 19-10 |
| 500.00 | 19-8 | 19-11 | 20-2 | 20-5 | 20-9 | 21-0 | 21-3 | 21-6 | 21-9 | 22-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 |
| 225.00 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 |
| 250.00 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 |
| 275.00 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 300.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 |
| 325.00 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 |
| 350.00 | 9-8 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 |
| 375.00 | 11-1 | 11-3 | 11-5 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 | 12-3 | 12-4 |
| 400.00 | 12-7 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 |
| 425.00 | 14-3 | 14-5 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-7 | 15-9 | 15-11 |
| 450.00 | 16-0 | 16-2 | 16-5 | 16-7 | 16-10 | 17-0 | 17-3 | 17-5 | 17-8 | 17-10 |
| 475.00 | 17-10 | 18-1 | 18-3 | 18-6 | 18-9 | 19-0 | 19-2 | 19-5 | 19-8 | 19-10 |
| 500.00 | 19-9 | 20-0 | 20-3 | 20-6 | 20-9 | 21-0 | 21-3 | 21-6 | 21-9 | 22-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS



OH822.16

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 |
| 275.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 |
| 300.00 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 |
| 325.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 |
| 350.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 375.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 400.00 | 12-11 | 13-0 | 13-1 | 13-3 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 |
| 425.00 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 | 15-5 | 15-6 | 15-8 |
| 450.00 | 16-4 | 16-5 | 16-7 | 16-9 | 16-10 | 17-0 | 17-2 | 17-3 | 17-5 | 17-7 |
| 475.00 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 18-11 | 19-1 | 19-3 | 19-5 | 19-7 |
| 500.00 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 |
| 525.00 | 22-3 | 22-5 | 22-7 | 22-9 | 23-0 | 23-2 | 23-4 | 23-6 | 23-9 | 23-11 |
| 550.00 | 24-5 | 24-7 | 24-10 | 25-0 | 25-3 | 25-5 | 25-8 | 25-10 | 26-0 | 26-3 |
| 575.00 | 26-8 | 26-11 | 27-1 | 27-4 | 27-7 | 27-10 | 28-0 | 28-3 | 28-6 | 28-8 |
| 600.00 | 29-1 | 29-4 | 29-6 | 29-9 | 30-0 | 30-3 | 30-6 | 30-9 | 31-0 | 31-3 |
| 625.00 | 31-6 | 31-10 | 32-1 | 32-4 | 32-7 | 32-10 | 33-1 | 33-5 | 33-8 | 33-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 |
| 275.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 |
| 300.00 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-10 |
| 325.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-2 |
| 350.00 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 |
| 375.00 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 400.00 | 12-11 | 13-0 | 13-2 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 |
| 425.00 | 14-7 | 14-8 | 14-10 | 14-11 | 15-1 | 15-2 | 15-4 | 15-5 | 15-7 | 15-8 |
| 450.00 | 16-4 | 16-6 | 16-8 | 16-9 | 16-11 | 17-0 | 17-2 | 17-4 | 17-5 | 17-7 |
| 475.00 | 18-3 | 18-5 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-3 | 19-5 | 19-7 |
| 500.00 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 |
| 525.00 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 | 23-2 | 23-5 | 23-7 | 23-9 | 23-11 |
| 550.00 | 24-5 | 24-8 | 24-10 | 25-1 | 25-3 | 25-6 | 25-8 | 25-10 | 26-1 | 26-3 |
| 575.00 | 26-9 | 26-11 | 27-2 | 27-5 | 27-8 | 27-10 | 28-1 | 28-3 | 28-6 | 28-9 |
| 600.00 | 29-1 | 29-4 | 29-7 | 29-10 | 30-1 | 30-4 | 30-7 | 30-10 | 31-1 | 31-3 |
| 625.00 | 31-7 | 31-10 | 32-2 | 32-5 | 32-8 | 32-11 | 33-2 | 33-5 | 33-8 | 33-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 0.63 | 1993 | 0.63 | 2000* |
| 25 | 0 | 0 | 0 | 0.629 | 0.41 | 1895 | 0.41 | 1909 |
| 30 | 0 | 0 | 0 | 0.629 | 0.43 | 1835 | 0.42 | 1853 |
| 40 | 0 | 0 | 0 | 0.629 | 0.46 | 1716 | 0.45 | 1741 |
| 50 | 0 | 0 | 0 | 0.629 | 0.49 | 1599 | 0.48 | 1630 |
| 60 | 0 | 0 | 0 | 0.629 | 0.53 | 1485 | 0.52 | 1522 |
| 70 | 0 | 0 | 0 | 0.629 | 0.57 | 1375 | 0.56 | 1415 |
| 80 | 0 | 0 | 0 | 0.629 | 0.62 | 1270 | 0.6 | 1311 |
| 90 | 0 | 0 | 0 | 0.629 | 0.67 | 1169 | 0.65 | 1211 |
| 100 | 0 | 0 | 0 | 0.629 | 0.73 | 1075 | 0.7 | 1116 |
| 110 | 0 | 0 | 0 | 0.629 | 0.8 | 988 | 0.77 | 1027 |
| 120 | 0 | 0 | 0 | 0.629 | 0.87 | 909 | 0.83 | 945 |
| 130 | 0 | 0 | 0 | 0.629 | 0.94 | 837 | 0.9 | 870 |
| 167 | 0 | 0 | 0 | 0.629 | 1.23 | 640 | 1.18 | 666 |
| 212 | 0 | 0 | 0 | 0.629 | 1.55 | 509 | 1.49 | 527 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 2.5 | 2000 | 2.5 | 2000* |
| 25 | 0 | 0 | 0 | 0.629 | 1.86 | 1690 | 1.85 | 1704 |
| 30 | 0 | 0 | 0 | 0.629 | 1.91 | 1645 | 1.89 | 1662 |
| 40 | 0 | 0 | 0 | 0.629 | 2.02 | 1560 | 1.99 | 1579 |
| 50 | 0 | 0 | 0 | 0.629 | 2.13 | 1480 | 2.1 | 1501 |
| 60 | 0 | 0 | 0 | 0.629 | 2.24 | 1404 | 2.21 | 1426 |
| 70 | 0 | 0 | 0 | 0.629 | 2.36 | 1334 | 2.32 | 1356 |
| 80 | 0 | 0 | 0 | 0.629 | 2.48 | 1268 | 2.44 | 1290 |
| 90 | 0 | 0 | 0 | 0.629 | 2.61 | 1208 | 2.56 | 1229 |
| 100 | 0 | 0 | 0 | 0.629 | 2.73 | 1152 | 2.69 | 1172 |
| 110 | 0 | 0 | 0 | 0.629 | 2.86 | 1100 | 2.81 | 1119 |
| 120 | 0 | 0 | 0 | 0.629 | 2.99 | 1053 | 2.94 | 1070 |
| 130 | 0 | 0 | 0 | 0.629 | 3.12 | 1009 | 3.07 | 1025 |
| 167 | 0 | 0 | 0 | 0.629 | 3.59 | 877 | 3.55 | 887 |
| 212 | 0 | 0 | 0 | 0.629 | 4.1 | 768 | 4.05 | 778 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 5.64 | 2000 | 5.64 | 2000* |
| 25 | 0 | 0 | 0 | 0.629 | 4.68 | 1514 | 4.64 | 1527 |
| 30 | 0 | 0 | 0 | 0.629 | 4.76 | 1487 | 4.72 | 1501 |
| 40 | 0 | 0 | 0 | 0.629 | 4.93 | 1437 | 4.88 | 1451 |
| 50 | 0 | 0 | 0 | 0.629 | 5.1 | 1389 | 5.05 | 1404 |
| 60 | 0 | 0 | 0 | 0.629 | 5.27 | 1345 | 5.21 | 1359 |
| 70 | 0 | 0 | 0 | 0.629 | 5.44 | 1303 | 5.38 | 1317 |
| 80 | 0 | 0 | 0 | 0.629 | 5.61 | 1264 | 5.55 | 1277 |
| 90 | 0 | 0 | 0 | 0.629 | 5.78 | 1227 | 5.72 | 1240 |
| 100 | 0 | 0 | 0 | 0.629 | 5.94 | 1193 | 5.88 | 1205 |
| 110 | 0 | 0 | 0 | 0.629 | 6.11 | 1160 | 6.05 | 1172 |
| 120 | 0 | 0 | 0 | 0.629 | 6.27 | 1130 | 6.22 | 1140 |
| 130 | 0 | 0 | 0 | 0.629 | 6.44 | 1101 | 6.38 | 1111 |
| 167 | 0 | 0 | 0 | 0.629 | 7.03 | 1009 | 6.98 | 1016 |
| 212 | 0 | 0 | 0 | 0.629 | 7.69 | 922 | 7.64 | 929 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 10.04 | 2000 | 10.04 | 2000* |
| 25 | 0 | 0 | 0 | 0.629 | 8.91 | 1414 | 8.85 | 1424 |
| 30 | 0 | 0 | 0 | 0.629 | 9.02 | 1398 | 8.95 | 1408 |
| 40 | 0 | 0 | 0 | 0.629 | 9.21 | 1368 | 9.15 | 1378 |
| 50 | 0 | 0 | 0 | 0.629 | 9.41 | 1339 | 9.35 | 1349 |
| 60 | 0 | 0 | 0 | 0.629 | 9.61 | 1312 | 9.54 | 1321 |
| 70 | 0 | 0 | 0 | 0.629 | 9.81 | 1286 | 9.74 | 1295 |
| 80 | 0 | 0 | 0 | 0.629 | 10 | 1261 | 9.93 | 1270 |
| 90 | 0 | 0 | 0 | 0.629 | 10.19 | 1238 | 10.12 | 1246 |
| 100 | 0 | 0 | 0 | 0.629 | 10.38 | 1215 | 10.32 | 1223 |
| 110 | 0 | 0 | 0 | 0.629 | 10.57 | 1193 | 10.51 | 1201 |
| 120 | 0 | 0 | 0 | 0.629 | 10.76 | 1173 | 10.69 | 1180 |
| 130 | 0 | 0 | 0 | 0.629 | 10.94 | 1153 | 10.88 | 1159 |
| 167 | 0 | 0 | 0 | 0.629 | 11.61 | 1087 | 11.56 | 1092 |
| 212 | 0 | 0 | 0 | 0.629 | 12.39 | 1019 | 12.33 | 1024 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.001 | 15.7 | 2000 | 15.7 | 2000* |
| 25 | 0 | 0 | 0 | 0.629 | 14.5 | 1360 | 14.43 | 1367 |
| 30 | 0 | 0 | 0 | 0.629 | 14.61 | 1350 | 14.54 | 1357 |
| 40 | 0 | 0 | 0 | 0.629 | 14.82 | 1331 | 14.75 | 1337 |
| 50 | 0 | 0 | 0 | 0.629 | 15.04 | 1312 | 14.96 | 1318 |
| 60 | 0 | 0 | 0 | 0.629 | 15.25 | 1294 | 15.17 | 1300 |
| 70 | 0 | 0 | 0 | 0.629 | 15.46 | 1277 | 15.38 | 1283 |
| 80 | 0 | 0 | 0 | 0.629 | 15.66 | 1260 | 15.59 | 1266 |
| 90 | 0 | 0 | 0 | 0.629 | 15.87 | 1244 | 15.8 | 1249 |
| 100 | 0 | 0 | 0 | 0.629 | 16.07 | 1228 | 16 | 1233 |
| 110 | 0 | 0 | 0 | 0.629 | 16.28 | 1213 | 16.21 | 1218 |
| 120 | 0 | 0 | 0 | 0.629 | 16.48 | 1198 | 16.41 | 1203 |
| 130 | 0 | 0 | 0 | 0.629 | 16.68 | 1184 | 16.61 | 1188 |
| 167 | 0 | 0 | 0 | 0.629 | 17.4 | 1135 | 17.35 | 1139 |
| 212 | 0 | 0 | 0 | 0.629 | 18.25 | 1083 | 18.2 | 1086 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 |
| 100.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-8 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 |
| 150.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 |
| 175.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 200.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 |
| 100.00 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 150.00 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 |
| 175.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 200.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.21

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 |
| 125.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 150.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-7 |
| 175.00 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 |
| 225.00 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 |
| 250.00 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 | 4-0 | 4-2 | 4-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 150.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 |
| 175.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 |
| 225.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-7 |
| 250.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-11 | 4-1 | 4-3 | 4-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.22

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 175.00 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 |
| 200.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 |
| 225.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 |
| 250.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 |
| 275.00 | 3-10 | 4-0 | 4-1 | 4-3 | 4-5 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 |
| 300.00 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 325.00 | 5-4 | 5-6 | 5-9 | 5-11 | 6-1 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 |
| 350.00 | 6-2 | 6-5 | 6-8 | 6-10 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 |
| 375.00 | 7-1 | 7-4 | 7-8 | 7-11 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 175.00 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 |
| 200.00 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 |
| 225.00 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 250.00 | 3-2 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 |
| 275.00 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 |
| 300.00 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 |
| 325.00 | 5-5 | 5-7 | 5-9 | 6-0 | 6-2 | 6-5 | 6-7 | 6-9 | 7-0 | 7-2 |
| 350.00 | 6-3 | 6-6 | 6-9 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-4 |
| 375.00 | 7-2 | 7-5 | 7-8 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 225.00 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 |
| 250.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 |
| 275.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 5-0 |
| 300.00 | 4-11 | 5-0 | 5-2 | 5-3 | 5-4 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 |
| 325.00 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-8 | 6-10 | 6-11 |
| 350.00 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-5 | 7-7 | 7-9 | 7-11 | 8-0 |
| 375.00 | 7-8 | 7-10 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 |
| 400.00 | 8-9 | 8-11 | 9-2 | 9-4 | 9-7 | 9-9 | 9-11 | 10-1 | 10-4 | 10-6 |
| 425.00 | 9-11 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 | 11-3 | 11-5 | 11-8 | 11-10 |
| 450.00 | 11-1 | 11-4 | 11-7 | 11-10 | 12-1 | 12-4 | 12-7 | 12-10 | 13-1 | 13-4 |
| 475.00 | 12-4 | 12-8 | 12-11 | 13-2 | 13-6 | 13-9 | 14-0 | 14-3 | 14-7 | 14-10 |
| 500.00 | 13-8 | 14-0 | 14-4 | 14-7 | 14-11 | 15-3 | 15-6 | 15-10 | 16-2 | 16-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 |
| 225.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 250.00 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 |
| 275.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 |
| 300.00 | 4-11 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-9 | 5-10 | 5-11 |
| 325.00 | 5-10 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-7 | 6-9 | 6-10 | 7-0 |
| 350.00 | 6-9 | 6-11 | 7-1 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 7-11 | 8-1 |
| 375.00 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 |
| 400.00 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-10 | 10-0 | 10-2 | 10-5 | 10-7 |
| 425.00 | 9-11 | 10-2 | 10-5 | 10-8 | 10-10 | 11-1 | 11-3 | 11-6 | 11-9 | 11-11 |
| 450.00 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 |
| 475.00 | 12-5 | 12-9 | 13-0 | 13-3 | 13-7 | 13-10 | 14-1 | 14-5 | 14-8 | 14-11 |
| 500.00 | 13-9 | 14-1 | 14-5 | 14-9 | 15-0 | 15-4 | 15-8 | 15-11 | 16-3 | 16-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.24

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 |
| 275.00 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 |
| 300.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 325.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 350.00 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 | 7-10 | 7-11 |
| 375.00 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 |
| 400.00 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 |
| 425.00 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 | 11-5 | 11-7 | 11-8 |
| 450.00 | 11-7 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-8 | 12-10 | 13-0 | 13-1 |
| 475.00 | 12-11 | 13-1 | 13-4 | 13-6 | 13-8 | 13-11 | 14-1 | 14-3 | 14-5 | 14-8 |
| 500.00 | 14-4 | 14-6 | 14-9 | 15-0 | 15-2 | 15-5 | 15-7 | 15-10 | 16-0 | 16-2 |
| 525.00 | 15-10 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 | 17-2 | 17-5 | 17-8 | 17-10 |
| 550.00 | 17-4 | 17-7 | 17-10 | 18-1 | 18-4 | 18-7 | 18-10 | 19-1 | 19-4 | 19-7 |
| 575.00 | 18-11 | 19-3 | 19-6 | 19-10 | 20-1 | 20-4 | 20-8 | 20-11 | 21-2 | 21-5 |
| 600.00 | 20-8 | 20-11 | 21-3 | 21-7 | 21-10 | 22-2 | 22-6 | 22-9 | 23-1 | 23-4 |
| 625.00 | 22-5 | 22-9 | 23-1 | 23-5 | 23-9 | 24-1 | 24-5 | 24-8 | 25-0 | 25-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 |
| 275.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 |
| 300.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 |
| 325.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 350.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 8-0 |
| 375.00 | 8-1 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-2 |
| 400.00 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 |
| 425.00 | 10-5 | 10-7 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-7 | 11-9 |
| 450.00 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 13-0 | 13-2 |
| 475.00 | 13-0 | 13-2 | 13-5 | 13-7 | 13-9 | 13-11 | 14-2 | 14-4 | 14-6 | 14-8 |
| 500.00 | 14-5 | 14-7 | 14-10 | 15-0 | 15-3 | 15-5 | 15-8 | 15-10 | 16-1 | 16-3 |
| 525.00 | 15-10 | 16-1 | 16-4 | 16-7 | 16-10 | 17-1 | 17-3 | 17-6 | 17-9 | 17-11 |
| 550.00 | 17-5 | 17-8 | 17-11 | 18-2 | 18-5 | 18-8 | 19-0 | 19-2 | 19-5 | 19-8 |
| 575.00 | 19-0 | 19-4 | 19-7 | 19-11 | 20-2 | 20-5 | 20-9 | 21-0 | 21-3 | 21-6 |
| 600.00 | 20-9 | 21-1 | 21-4 | 21-8 | 22-0 | 22-3 | 22-7 | 22-10 | 23-2 | 23-5 |
| 625.00 | 22-6 | 22-10 | 23-2 | 23-6 | 23-10 | 24-2 | 24-6 | 24-10 | 25-2 | 25-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 2.49 | 1000 | 2.49 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 2.18 | 361 | 2.16 | 365 |
| 30 | 0 | 0 | 0 | 0.629 | 2.36 | 333 | 2.34 | 336 |
| 40 | 0 | 0 | 0 | 0.629 | 2.42 | 326 | 2.40 | 328 |
| 50 | 0 | 0 | 0 | 0.629 | 2.48 | 318 | 2.46 | 320 |
| 60 | 0 | 0 | 0 | 0.629 | 2.53 | 311 | 2.52 | 313 |
| 70 | 0 | 0 | 0 | 0.629 | 2.59 | 305 | 2.58 | 306 |
| 80 | 0 | 0 | 0 | 0.629 | 2.64 | 298 | 2.63 | 300 |
| 90 | 0 | 0 | 0 | 0.629 | 2.70 | 293 | 2.69 | 294 |
| 100 | 0 | 0 | 0 | 0.629 | 2.75 | 287 | 2.74 | 288 |
| 110 | 0 | 0 | 0 | 0.629 | 2.80 | 282 | 2.78 | 283 |
| 120 | 0 | 0 | 0 | 0.629 | 2.85 | 277 | 2.83 | 279 |
| 130 | 0 | 0 | 0 | 0.629 | 2.89 | 273 | 2.87 | 274 |
| 167 | 0 | 0 | 0 | 0.629 | 3.06 | 258 | 3.04 | 260 |
| 212 | 0 | 0 | 0 | 0.629 | 3.24 | 243 | 3.23 | 245 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 10.04 | 1000 | 10.04 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 9.73 | 326 | 9.71 | 327 |
| 30 | 0 | 0 | 0 | 0.629 | 9.91 | 321 | 9.89 | 321 |
| 40 | 0 | 0 | 0 | 0.629 | 9.97 | 319 | 9.95 | 319 |
| 50 | 0 | 0 | 0 | 0.629 | 10.03 | 317 | 10.01 | 317 |
| 60 | 0 | 0 | 0 | 0.629 | 10.08 | 315 | 10.07 | 316 |
| 70 | 0 | 0 | 0 | 0.629 | 10.14 | 313 | 10.13 | 314 |
| 80 | 0 | 0 | 0 | 0.629 | 10.20 | 312 | 10.19 | 312 |
| 90 | 0 | 0 | 0 | 0.629 | 10.26 | 310 | 10.25 | 310 |
| 100 | 0 | 0 | 0 | 0.629 | 10.31 | 308 | 10.30 | 308 |
| 110 | 0 | 0 | 0 | 0.629 | 10.37 | 306 | 10.36 | 307 |
| 120 | 0 | 0 | 0 | 0.629 | 10.43 | 305 | 10.41 | 305 |
| 130 | 0 | 0 | 0 | 0.629 | 10.48 | 303 | 10.46 | 304 |
| 167 | 0 | 0 | 0 | 0.629 | 10.67 | 298 | 10.65 | 299 |
| 212 | 0 | 0 | 0 | 0.629 | 10.89 | 292 | 10.87 | 293 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 22.88 | 1000 | 22.88 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 22.57 | 321 | 22.55 | 321 |
| 30 | 0 | 0 | 0 | 0.629 | 22.75 | 318 | 22.73 | 318 |
| 40 | 0 | 0 | 0 | 0.629 | 22.81 | 317 | 22.79 | 318 |
| 50 | 0 | 0 | 0 | 0.629 | 22.87 | 317 | 22.85 | 317 |
| 60 | 0 | 0 | 0 | 0.629 | 22.93 | 316 | 22.91 | 316 |
| 70 | 0 | 0 | 0 | 0.629 | 22.99 | 315 | 22.97 | 315 |
| 80 | 0 | 0 | 0 | 0.629 | 23.05 | 314 | 23.03 | 314 |
| 90 | 0 | 0 | 0 | 0.629 | 23.10 | 314 | 23.09 | 314 |
| 100 | 0 | 0 | 0 | 0.629 | 23.16 | 313 | 23.15 | 313 |
| 110 | 0 | 0 | 0 | 0.629 | 23.22 | 312 | 23.21 | 312 |
| 120 | 0 | 0 | 0 | 0.629 | 23.28 | 311 | 23.26 | 312 |
| 130 | 0 | 0 | 0 | 0.629 | 23.33 | 311 | 23.31 | 311 |
| 167 | 0 | 0 | 0 | 0.629 | 23.53 | 308 | 23.51 | 308 |
| 212 | 0 | 0 | 0 | 0.629 | 23.76 | 305 | 23.74 | 306 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 41.47 | 1000 | 41.47 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 41.16 | 319 | 41.14 | 319 |
| 30 | 0 | 0 | 0 | 0.629 | 41.34 | 317 | 41.32 | 318 |
| 40 | 0 | 0 | 0 | 0.629 | 41.40 | 317 | 41.38 | 317 |
| 50 | 0 | 0 | 0 | 0.629 | 41.46 | 317 | 41.44 | 317 |
| 60 | 0 | 0 | 0 | 0.629 | 41.52 | 316 | 41.50 | 316 |
| 70 | 0 | 0 | 0 | 0.629 | 41.57 | 316 | 41.56 | 316 |
| 80 | 0 | 0 | 0 | 0.629 | 41.63 | 315 | 41.62 | 315 |
| 90 | 0 | 0 | 0 | 0.629 | 41.69 | 315 | 41.68 | 315 |
| 100 | 0 | 0 | 0 | 0.629 | 41.75 | 314 | 41.74 | 315 |
| 110 | 0 | 0 | 0 | 0.629 | 41.81 | 314 | 41.79 | 314 |
| 120 | 0 | 0 | 0 | 0.629 | 41.87 | 314 | 41.85 | 314 |
| 130 | 0 | 0 | 0 | 0.629 | 41.92 | 313 | 41.90 | 313 |
| 167 | 0 | 0 | 0 | 0.629 | 42.12 | 312 | 42.10 | 312 |
| 212 | 0 | 0 | 0 | 0.629 | 42.36 | 310 | 42.34 | 311 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 66.54 | 1000 | 66.54 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 66.23 | 318 | 66.21 | 318 |
| 30 | 0 | 0 | 0 | 0.629 | 66.41 | 317 | 66.39 | 317 |
| 40 | 0 | 0 | 0 | 0.629 | 66.47 | 317 | 66.45 | 317 |
| 50 | 0 | 0 | 0 | 0.629 | 66.53 | 316 | 66.51 | 317 |
| 60 | 0 | 0 | 0 | 0.629 | 66.59 | 316 | 66.57 | 316 |
| 70 | 0 | 0 | 0 | 0.629 | 66.65 | 316 | 66.63 | 316 |
| 80 | 0 | 0 | 0 | 0.629 | 66.70 | 316 | 66.69 | 316 |
| 90 | 0 | 0 | 0 | 0.629 | 66.76 | 316 | 66.75 | 316 |
| 100 | 0 | 0 | 0 | 0.629 | 66.82 | 315 | 66.81 | 315 |
| 110 | 0 | 0 | 0 | 0.629 | 66.88 | 315 | 66.87 | 315 |
| 120 | 0 | 0 | 0 | 0.629 | 66.94 | 315 | 66.92 | 315 |
| 130 | 0 | 0 | 0 | 0.629 | 66.99 | 315 | 66.97 | 315 |
| 167 | 0 | 0 | 0 | 0.629 | 67.19 | 314 | 67.17 | 314 |
| 212 | 0 | 0 | 0 | 0.629 | 67.43 | 313 | 67.41 | 313 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 125.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 150.00 | 5-2 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-3 |
| 175.00 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 |
| 200.00 | 9-2 | 9-5 | 9-8 | 9-10 | 10-1 | 10-4 | 10-7 | 10-9 | 11-0 | 11-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 |
| 100.00 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 |
| 125.00 | 3-7 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 |
| 150.00 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-4 |
| 175.00 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 | 8-1 | 8-3 | 8-5 | 8-7 |
| 200.00 | 9-3 | 9-6 | 9-8 | 9-11 | 10-2 | 10-5 | 10-7 | 10-10 | 11-0 | 11-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.29

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 |
| 125.00 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 |
| 150.00 | 5-6 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 |
| 175.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 200.00 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 |
| 225.00 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-1 |
| 250.00 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-2 | 16-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 |
| 125.00 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 |
| 150.00 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 |
| 175.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 200.00 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 |
| 225.00 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 |
| 250.00 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-8 | 5-8 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-9 | 5-9 |
| 175.00 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 |
| 200.00 | 10-0 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 |
| 225.00 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 |
| 250.00 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 | 15-11 | 15-11 | 16-0 | 16-0 | 16-1 |
| 275.00 | 19-0 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 | 19-5 | 19-6 |
| 300.00 | 22-8 | 22-9 | 22-10 | 22-10 | 22-11 | 23-0 | 23-0 | 23-1 | 23-2 | 23-2 |
| 325.00 | 26-8 | 26-9 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-3 | 27-3 |
| 350.00 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 |
| 375.00 | 35-7 | 35-8 | 35-9 | 35-10 | 35-11 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-8 | 5-8 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-9 | 5-9 |
| 175.00 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 |
| 200.00 | 10-1 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 |
| 225.00 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 |
| 250.00 | 15-9 | 15-9 | 15-10 | 15-10 | 15-11 | 15-11 | 16-0 | 16-0 | 16-1 | 16-1 |
| 275.00 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-4 | 19-4 | 19-5 | 19-5 | 19-6 |
| 300.00 | 22-8 | 22-9 | 22-10 | 22-10 | 22-11 | 23-0 | 23-1 | 23-1 | 23-2 | 23-3 |
| 325.00 | 26-8 | 26-9 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-2 | 27-3 | 27-3 |
| 350.00 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 | 31-5 | 31-6 | 31-7 | 31-8 |
| 375.00 | 35-7 | 35-8 | 35-10 | 35-11 | 36-0 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.31

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 |
| 225.00 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-1 |
| 250.00 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-1 | 16-2 | 16-2 | 16-2 |
| 275.00 | 19-4 | 19-5 | 19-5 | 19-5 | 19-6 | 19-6 | 19-6 | 19-7 | 19-7 | 19-7 |
| 300.00 | 23-1 | 23-1 | 23-2 | 23-2 | 23-2 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 |
| 325.00 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-6 |
| 350.00 | 31-6 | 31-6 | 31-7 | 31-7 | 31-8 | 31-9 | 31-9 | 31-10 | 31-10 | 31-11 |
| 375.00 | 36-2 | 36-3 | 36-4 | 36-4 | 36-5 | 36-6 | 36-6 | 36-7 | 36-7 | 36-8 |
| 400.00 | 41-3 | 41-4 | 41-5 | 41-5 | 41-6 | 41-7 | 41-7 | 41-8 | 41-9 | 41-10 |
| 425.00 | 46-8 | 46-9 | 46-10 | 46-10 | 46-11 | 47-0 | 47-1 | 47-2 | 47-2 | 47-3 |
| 450.00 | 52-5 | 52-6 | 52-7 | 52-8 | 52-9 | 52-10 | 52-10 | 52-11 | 53-0 | 53-1 |
| 475.00 | 58-6 | 58-7 | 58-8 | 58-9 | 58-10 | 58-11 | 59-0 | 59-1 | 59-2 | 59-3 |
| 500.00 | 65-0 | 65-1 | 65-2 | 65-3 | 65-4 | 65-5 | 65-7 | 65-8 | 65-9 | 65-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-4 |
| 225.00 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-1 |
| 250.00 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-1 | 16-2 | 16-2 | 16-2 |
| 275.00 | 19-4 | 19-5 | 19-5 | 19-5 | 19-6 | 19-6 | 19-6 | 19-7 | 19-7 | 19-7 |
| 300.00 | 23-1 | 23-1 | 23-2 | 23-2 | 23-3 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 |
| 325.00 | 27-1 | 27-2 | 27-2 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-6 |
| 350.00 | 31-6 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 | 31-9 | 31-10 | 31-10 | 31-11 |
| 375.00 | 36-3 | 36-3 | 36-4 | 36-4 | 36-5 | 36-6 | 36-6 | 36-7 | 36-8 | 36-8 |
| 400.00 | 41-3 | 41-4 | 41-5 | 41-5 | 41-6 | 41-7 | 41-8 | 41-8 | 41-9 | 41-10 |
| 425.00 | 46-8 | 46-9 | 46-10 | 46-11 | 46-11 | 47-0 | 47-1 | 47-2 | 47-3 | 47-3 |
| 450.00 | 52-5 | 52-6 | 52-7 | 52-8 | 52-9 | 52-10 | 52-11 | 53-0 | 53-0 | 53-1 |
| 475.00 | 58-6 | 58-7 | 58-9 | 58-10 | 58-11 | 59-0 | 59-1 | 59-2 | 59-3 | 59-4 |
| 500.00 | 65-0 | 65-1 | 65-2 | 65-3 | 65-5 | 65-6 | 65-7 | 65-8 | 65-9 | 65-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.32

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-4 | 16-4 | 16-4 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-5 | 16-5 |
| 275.00 | 19-9 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-10 | 19-11 | 19-11 | 19-11 |
| 300.00 | 23-6 | 23-7 | 23-7 | 23-7 | 23-7 | 23-8 | 23-8 | 23-8 | 23-8 | 23-9 |
| 325.00 | 27-8 | 27-8 | 27-9 | 27-9 | 27-9 | 27-9 | 27-10 | 27-10 | 27-10 | 27-11 |
| 350.00 | 32-2 | 32-2 | 32-2 | 32-3 | 32-3 | 32-3 | 32-4 | 32-4 | 32-4 | 32-5 |
| 375.00 | 36-11 | 37-0 | 37-0 | 37-1 | 37-1 | 37-1 | 37-2 | 37-2 | 37-3 | 37-3 |
| 400.00 | 42-1 | 42-2 | 42-2 | 42-3 | 42-3 | 42-4 | 42-4 | 42-4 | 42-5 | 42-5 |
| 425.00 | 47-8 | 47-8 | 47-9 | 47-9 | 47-10 | 47-10 | 47-11 | 47-11 | 48-0 | 48-0 |
| 450.00 | 53-6 | 53-7 | 53-7 | 53-8 | 53-8 | 53-9 | 53-9 | 53-10 | 53-11 | 53-11 |
| 475.00 | 59-9 | 59-9 | 59-10 | 59-11 | 59-11 | 60-0 | 60-1 | 60-1 | 60-2 | 60-3 |
| 500.00 | 66-4 | 66-5 | 66-5 | 66-6 | 66-7 | 66-8 | 66-8 | 66-9 | 66-10 | 66-10 |
| 525.00 | 73-4 | 73-4 | 73-5 | 73-6 | 73-7 | 73-8 | 73-8 | 73-9 | 73-10 | 73-11 |
| 550.00 | 80-8 | 80-9 | 80-9 | 80-10 | 80-11 | 81-0 | 81-1 | 81-2 | 81-3 | 81-4 |
| 575.00 | 88-4 | 88-5 | 88-6 | 88-7 | 88-8 | 88-9 | 88-10 | 88-11 | 89-0 | 89-1 |
| 600.00 | 96-5 | 96-7 | 96-8 | 96-9 | 96-10 | 96-11 | 97-0 | 97-1 | 97-2 | 97-3 |
| 625.00 | 104-11 | 105-1 | 105-2 | 105-3 | 105-4 | 105-5 | 105-6 | 105-8 | 105-9 | 105-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-4 | 16-4 | 16-4 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-5 | 16-5 |
| 275.00 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-10 | 19-10 | 19-11 | 19-11 | 19-11 |
| 300.00 | 23-7 | 23-7 | 23-7 | 23-7 | 23-8 | 23-8 | 23-8 | 23-8 | 23-9 | 23-9 |
| 325.00 | 27-8 | 27-8 | 27-9 | 27-9 | 27-9 | 27-10 | 27-10 | 27-10 | 27-10 | 27-11 |
| 350.00 | 32-2 | 32-2 | 32-2 | 32-3 | 32-3 | 32-3 | 32-4 | 32-4 | 32-4 | 32-5 |
| 375.00 | 37-0 | 37-0 | 37-0 | 37-1 | 37-1 | 37-1 | 37-2 | 37-2 | 37-3 | 37-3 |
| 400.00 | 42-1 | 42-2 | 42-2 | 42-3 | 42-3 | 42-4 | 42-4 | 42-5 | 42-5 | 42-5 |
| 425.00 | 47-8 | 47-8 | 47-9 | 47-9 | 47-10 | 47-10 | 47-11 | 47-11 | 48-0 | 48-0 |
| 450.00 | 53-6 | 53-7 | 53-7 | 53-8 | 53-8 | 53-9 | 53-10 | 53-10 | 53-11 | 53-11 |
| 475.00 | 59-9 | 59-10 | 59-10 | 59-11 | 60-0 | 60-0 | 60-1 | 60-1 | 60-2 | 60-3 |
| 500.00 | 66-4 | 66-5 | 66-6 | 66-6 | 66-7 | 66-8 | 66-8 | 66-9 | 66-10 | 66-11 |
| 525.00 | 73-4 | 73-5 | 73-5 | 73-6 | 73-7 | 73-8 | 73-9 | 73-9 | 73-10 | 73-11 |
| 550.00 | 80-8 | 80-9 | 80-10 | 80-11 | 80-11 | 81-0 | 81-1 | 81-2 | 81-3 | 81-4 |
| 575.00 | 88-5 | 88-6 | 88-7 | 88-7 | 88-8 | 88-9 | 88-10 | 88-11 | 89-0 | 89-1 |
| 600.00 | 96-6 | 96-7 | 96-8 | 96-9 | 96-10 | 96-11 | 97-0 | 97-1 | 97-2 | 97-3 |
| 625.00 | 105-0 | 105-1 | 105-2 | 105-3 | 105-4 | 105-6 | 105-7 | 105-8 | 105-9 | 105-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.33

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 1.66 | 1500 | 1.66 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 1.04 | 759 | 1.01 | 781 |
| 30 | 0 | 0 | 0 | 0.629 | 1.28 | 615 | 1.24 | 632 |
| 40 | 0 | 0 | 0 | 0.629 | 1.36 | 579 | 1.33 | 594 |
| 50 | 0 | 0 | 0 | 0.629 | 1.44 | 547 | 1.41 | 560 |
| 60 | 0 | 0 | 0 | 0.629 | 1.52 | 518 | 1.48 | 530 |
| 70 | 0 | 0 | 0 | 0.629 | 1.59 | 494 | 1.56 | 504 |
| 80 | 0 | 0 | 0 | 0.629 | 1.67 | 471 | 1.64 | 480 |
| 90 | 0 | 0 | 0 | 0.629 | 1.74 | 452 | 1.72 | 459 |
| 100 | 0 | 0 | 0 | 0.629 | 1.82 | 434 | 1.79 | 440 |
| 110 | 0 | 0 | 0 | 0.629 | 1.89 | 418 | 1.86 | 423 |
| 120 | 0 | 0 | 0 | 0.629 | 1.95 | 403 | 1.93 | 409 |
| 130 | 0 | 0 | 0 | 0.629 | 2.02 | 390 | 1.99 | 397 |
| 167 | 0 | 0 | 0 | 0.629 | 2.23 | 353 | 2.20 | 358 |
| 212 | 0 | 0 | 0 | 0.629 | 2.47 | 319 | 2.44 | 323 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 6.66 | 1500 | 6.66 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 5.96 | 530 | 5.91 | 534 |
| 30 | 0 | 0 | 0 | 0.629 | 6.23 | 507 | 6.19 | 510 |
| 40 | 0 | 0 | 0 | 0.629 | 6.32 | 500 | 6.28 | 503 |
| 50 | 0 | 0 | 0 | 0.629 | 6.41 | 493 | 6.37 | 496 |
| 60 | 0 | 0 | 0 | 0.629 | 6.50 | 486 | 6.46 | 489 |
| 70 | 0 | 0 | 0 | 0.629 | 6.58 | 480 | 6.55 | 482 |
| 80 | 0 | 0 | 0 | 0.629 | 6.67 | 474 | 6.63 | 476 |
| 90 | 0 | 0 | 0 | 0.629 | 6.75 | 468 | 6.72 | 470 |
| 100 | 0 | 0 | 0 | 0.629 | 6.84 | 462 | 6.81 | 464 |
| 110 | 0 | 0 | 0 | 0.629 | 6.92 | 457 | 6.89 | 459 |
| 120 | 0 | 0 | 0 | 0.629 | 7.00 | 451 | 6.97 | 453 |
| 130 | 0 | 0 | 0 | 0.629 | 7.08 | 446 | 7.05 | 448 |
| 167 | 0 | 0 | 0 | 0.629 | 7.35 | 430 | 7.31 | 432 |
| 212 | 0 | 0 | 0 | 0.629 | 7.67 | 413 | 7.63 | 415 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 15.06 | 1500 | 15.06 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 14.36 | 497 | 14.31 | 499 |
| 30 | 0 | 0 | 0 | 0.629 | 14.63 | 488 | 14.59 | 490 |
| 40 | 0 | 0 | 0 | 0.629 | 14.72 | 485 | 14.68 | 487 |
| 50 | 0 | 0 | 0 | 0.629 | 14.81 | 483 | 14.77 | 484 |
| 60 | 0 | 0 | 0 | 0.629 | 14.90 | 480 | 14.86 | 481 |
| 70 | 0 | 0 | 0 | 0.629 | 14.98 | 477 | 14.95 | 478 |
| 80 | 0 | 0 | 0 | 0.629 | 15.07 | 474 | 15.04 | 475 |
| 90 | 0 | 0 | 0 | 0.629 | 15.16 | 472 | 15.13 | 473 |
| 100 | 0 | 0 | 0 | 0.629 | 15.25 | 469 | 15.21 | 470 |
| 110 | 0 | 0 | 0 | 0.629 | 15.33 | 466 | 15.30 | 467 |
| 120 | 0 | 0 | 0 | 0.629 | 15.42 | 464 | 15.39 | 465 |
| 130 | 0 | 0 | 0 | 0.629 | 15.50 | 461 | 15.47 | 462 |
| 167 | 0 | 0 | 0 | 0.629 | 15.79 | 453 | 15.75 | 454 |
| 212 | 0 | 0 | 0 | 0.629 | 16.13 | 444 | 16.09 | 445 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 26.99 | 1500 | 26.99 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 26.29 | 487 | 26.24 | 488 |
| 30 | 0 | 0 | 0 | 0.629 | 26.56 | 482 | 26.51 | 483 |
| 40 | 0 | 0 | 0 | 0.629 | 26.65 | 481 | 26.60 | 481 |
| 50 | 0 | 0 | 0 | 0.629 | 26.73 | 479 | 26.69 | 480 |
| 60 | 0 | 0 | 0 | 0.629 | 26.82 | 477 | 26.78 | 478 |
| 70 | 0 | 0 | 0 | 0.629 | 26.91 | 476 | 26.87 | 477 |
| 80 | 0 | 0 | 0 | 0.629 | 27.00 | 474 | 26.96 | 475 |
| 90 | 0 | 0 | 0 | 0.629 | 27.09 | 473 | 27.05 | 474 |
| 100 | 0 | 0 | 0 | 0.629 | 27.18 | 471 | 27.14 | 472 |
| 110 | 0 | 0 | 0 | 0.629 | 27.26 | 470 | 27.23 | 471 |
| 120 | 0 | 0 | 0 | 0.629 | 27.35 | 469 | 27.32 | 469 |
| 130 | 0 | 0 | 0 | 0.629 | 27.44 | 467 | 27.40 | 468 |
| 167 | 0 | 0 | 0 | 0.629 | 27.73 | 462 | 27.69 | 463 |
| 212 | 0 | 0 | 0 | 0.629 | 28.09 | 457 | 28.04 | 457 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 42.62 | 1500 | 42.62 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 41.92 | 482 | 41.87 | 483 |
| 30 | 0 | 0 | 0 | 0.629 | 42.19 | 479 | 42.14 | 480 |
| 40 | 0 | 0 | 0 | 0.629 | 42.28 | 478 | 42.23 | 479 |
| 50 | 0 | 0 | 0 | 0.629 | 42.37 | 477 | 42.32 | 478 |
| 60 | 0 | 0 | 0 | 0.629 | 42.45 | 476 | 42.41 | 477 |
| 70 | 0 | 0 | 0 | 0.629 | 42.54 | 475 | 42.50 | 476 |
| 80 | 0 | 0 | 0 | 0.629 | 42.63 | 475 | 42.59 | 475 |
| 90 | 0 | 0 | 0 | 0.629 | 42.72 | 474 | 42.69 | 474 |
| 100 | 0 | 0 | 0 | 0.629 | 42.81 | 473 | 42.78 | 473 |
| 110 | 0 | 0 | 0 | 0.629 | 42.90 | 472 | 42.87 | 472 |
| 120 | 0 | 0 | 0 | 0.629 | 42.98 | 471 | 42.96 | 471 |
| 130 | 0 | 0 | 0 | 0.629 | 43.07 | 470 | 43.04 | 470 |
| 167 | 0 | 0 | 0 | 0.629 | 43.37 | 467 | 43.33 | 467 |
| 212 | 0 | 0 | 0 | 0.629 | 43.73 | 463 | 43.69 | 464 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 |
| 125.00 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 |
| 150.00 | 2-7 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 175.00 | 3-7 | 3-10 | 4-1 | 4-4 | 4-7 | 4-9 | 5-0 | 5-3 | 5-6 | 5-8 |
| 200.00 | 4-8 | 5-0 | 5-4 | 5-8 | 5-11 | 6-3 | 6-7 | 6-10 | 7-2 | 7-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 | 2-10 | 2-11 |
| 150.00 | 2-8 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 | 4-3 |
| 175.00 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-11 | 5-1 | 5-4 | 5-7 | 5-9 |
| 200.00 | 4-10 | 5-1 | 5-5 | 5-9 | 6-1 | 6-5 | 6-8 | 7-0 | 7-3 | 7-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.37

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-7 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-8 | 1-9 |
| 125.00 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 |
| 150.00 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 |
| 175.00 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 |
| 200.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 |
| 225.00 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-9 |
| 250.00 | 9-6 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 | 10-8 | 10-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-6 | 1-7 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-8 | 1-9 |
| 125.00 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 |
| 150.00 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 |
| 175.00 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 |
| 200.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 |
| 225.00 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 |
| 250.00 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-7 | 3-8 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 |
| 175.00 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 |
| 200.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 |
| 225.00 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 |
| 250.00 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 |
| 275.00 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 | 12-10 |
| 300.00 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-2 | 15-3 | 15-4 |
| 325.00 | 17-0 | 17-2 | 17-3 | 17-4 | 17-5 | 17-7 | 17-8 | 17-9 | 17-10 | 18-0 |
| 350.00 | 19-9 | 19-11 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-9 | 20-10 |
| 375.00 | 22-8 | 22-10 | 23-0 | 23-1 | 23-3 | 23-5 | 23-6 | 23-8 | 23-10 | 23-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-8 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 |
| 175.00 | 4-11 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 |
| 200.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 |
| 225.00 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 |
| 250.00 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-7 | 10-8 |
| 275.00 | 12-3 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 |
| 300.00 | 14-6 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 |
| 325.00 | 17-1 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-8 | 17-10 | 17-11 | 18-0 |
| 350.00 | 19-10 | 19-11 | 20-1 | 20-2 | 20-4 | 20-5 | 20-6 | 20-8 | 20-9 | 20-11 |
| 375.00 | 22-9 | 22-11 | 23-0 | 23-2 | 23-4 | 23-5 | 23-7 | 23-9 | 23-10 | 24-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-9 |
| 225.00 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 |
| 250.00 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 |
| 275.00 | 12-5 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 |
| 300.00 | 14-10 | 14-11 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 |
| 325.00 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-11 | 17-11 |
| 350.00 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-7 | 20-8 | 20-9 | 20-10 |
| 375.00 | 23-2 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 |
| 400.00 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 27-0 | 27-1 | 27-2 | 27-3 |
| 425.00 | 29-10 | 29-11 | 30-1 | 30-2 | 30-3 | 30-4 | 30-6 | 30-7 | 30-8 | 30-9 |
| 450.00 | 33-6 | 33-7 | 33-9 | 33-10 | 33-11 | 34-1 | 34-2 | 34-4 | 34-5 | 34-6 |
| 475.00 | 37-4 | 37-6 | 37-7 | 37-9 | 37-10 | 38-0 | 38-1 | 38-3 | 38-4 | 38-6 |
| 500.00 | 41-5 | 41-7 | 41-8 | 41-10 | 42-0 | 42-2 | 42-3 | 42-5 | 42-7 | 42-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-9 |
| 225.00 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 |
| 250.00 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 |
| 275.00 | 12-6 | 12-6 | 12-7 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 | 12-10 |
| 300.00 | 14-10 | 14-11 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-4 |
| 325.00 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 | 17-11 | 18-0 |
| 350.00 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 |
| 375.00 | 23-3 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 | 23-11 |
| 400.00 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-2 | 27-3 |
| 425.00 | 29-11 | 30-0 | 30-1 | 30-2 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-10 |
| 450.00 | 33-7 | 33-8 | 33-9 | 33-11 | 34-0 | 34-1 | 34-3 | 34-4 | 34-5 | 34-7 |
| 475.00 | 37-5 | 37-6 | 37-8 | 37-9 | 37-11 | 38-1 | 38-2 | 38-4 | 38-5 | 38-6 |
| 500.00 | 41-6 | 41-8 | 41-9 | 41-11 | 42-1 | 42-2 | 42-4 | 42-6 | 42-7 | 42-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS



OH822.40

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-7 | 10-8 |
| 275.00 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-11 |
| 300.00 | 15-1 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 |
| 325.00 | 17-8 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 |
| 350.00 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 |
| 375.00 | 23-7 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 | 23-10 | 23-11 | 24-0 | 24-0 |
| 400.00 | 26-10 | 26-11 | 26-11 | 27-0 | 27-1 | 27-1 | 27-2 | 27-3 | 27-3 | 27-4 |
| 425.00 | 30-4 | 30-4 | 30-5 | 30-6 | 30-7 | 30-8 | 30-8 | 30-9 | 30-10 | 30-11 |
| 450.00 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-4 | 34-5 | 34-6 | 34-7 | 34-8 |
| 475.00 | 37-11 | 38-0 | 38-1 | 38-2 | 38-3 | 38-4 | 38-5 | 38-6 | 38-7 | 38-8 |
| 500.00 | 42-1 | 42-2 | 42-3 | 42-4 | 42-5 | 42-6 | 42-7 | 42-8 | 42-9 | 42-10 |
| 525.00 | 46-5 | 46-6 | 46-7 | 46-8 | 46-10 | 46-11 | 47-0 | 47-1 | 47-2 | 47-4 |
| 550.00 | 51-0 | 51-1 | 51-2 | 51-4 | 51-5 | 51-6 | 51-8 | 51-9 | 51-10 | 52-0 |
| 575.00 | 55-9 | 55-11 | 56-0 | 56-2 | 56-3 | 56-5 | 56-6 | 56-7 | 56-9 | 56-10 |
| 600.00 | 60-10 | 60-11 | 61-1 | 61-2 | 61-4 | 61-6 | 61-7 | 61-9 | 61-10 | 62-0 |
| 625.00 | 66-1 | 66-2 | 66-4 | 66-6 | 66-7 | 66-9 | 66-11 | 67-1 | 67-2 | 67-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 |
| 275.00 | 12-8 | 12-8 | 12-8 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-11 |
| 300.00 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 |
| 325.00 | 17-8 | 17-9 | 17-9 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 |
| 350.00 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 |
| 375.00 | 23-7 | 23-8 | 23-8 | 23-9 | 23-9 | 23-10 | 23-11 | 23-11 | 24-0 | 24-0 |
| 400.00 | 26-10 | 26-11 | 27-0 | 27-0 | 27-1 | 27-2 | 27-2 | 27-3 | 27-4 | 27-4 |
| 425.00 | 30-4 | 30-5 | 30-6 | 30-6 | 30-7 | 30-8 | 30-9 | 30-9 | 30-10 | 30-11 |
| 450.00 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-6 | 34-7 | 34-8 |
| 475.00 | 38-0 | 38-0 | 38-1 | 38-2 | 38-3 | 38-4 | 38-5 | 38-6 | 38-7 | 38-8 |
| 500.00 | 42-1 | 42-2 | 42-3 | 42-4 | 42-5 | 42-7 | 42-8 | 42-9 | 42-10 | 42-11 |
| 525.00 | 46-5 | 46-7 | 46-8 | 46-9 | 46-10 | 46-11 | 47-1 | 47-2 | 47-3 | 47-4 |
| 550.00 | 51-0 | 51-2 | 51-3 | 51-4 | 51-6 | 51-7 | 51-8 | 51-10 | 51-11 | 52-0 |
| 575.00 | 55-10 | 56-0 | 56-1 | 56-2 | 56-4 | 56-5 | 56-7 | 56-8 | 56-9 | 56-11 |
| 600.00 | 60-10 | 61-0 | 61-2 | 61-3 | 61-5 | 61-6 | 61-8 | 61-9 | 61-11 | 62-0 |
| 625.00 | 66-1 | 66-3 | 66-5 | 66-7 | 66-8 | 66-10 | 67-0 | 67-1 | 67-3 | 67-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 1.24 | 2000 | 1.24 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 0.54 | 1447 | 0.53 | 1480 |
| 30 | 0 | 0 | 0 | 0.629 | 0.69 | 1136 | 0.67 | 1180 |
| 40 | 0 | 0 | 0 | 0.629 | 0.75 | 1044 | 0.72 | 1088 |
| 50 | 0 | 0 | 0 | 0.629 | 0.82 | 960 | 0.78 | 1003 |
| 60 | 0 | 0 | 0 | 0.629 | 0.89 | 883 | 0.85 | 924 |
| 70 | 0 | 0 | 0 | 0.629 | 0.97 | 814 | 0.92 | 852 |
| 80 | 0 | 0 | 0 | 0.629 | 1.04 | 753 | 1.00 | 787 |
| 90 | 0 | 0 | 0 | 0.629 | 1.12 | 699 | 1.08 | 729 |
| 100 | 0 | 0 | 0 | 0.629 | 1.21 | 652 | 1.16 | 678 |
| 110 | 0 | 0 | 0 | 0.629 | 1.29 | 611 | 1.24 | 634 |
| 120 | 0 | 0 | 0 | 0.629 | 1.37 | 575 | 1.32 | 595 |
| 130 | 0 | 0 | 0 | 0.629 | 1.45 | 544 | 1.40 | 560 |
| 167 | 0 | 0 | 0 | 0.629 | 1.71 | 462 | 1.66 | 475 |
| 212 | 0 | 0 | 0 | 0.629 | 1.99 | 396 | 1.94 | 406 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 4.98 | 2000 | 4.98 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 3.78 | 834 | 3.70 | 851 |
| 30 | 0 | 0 | 0 | 0.629 | 4.14 | 761 | 4.06 | 775 |
| 40 | 0 | 0 | 0 | 0.629 | 4.26 | 740 | 4.18 | 753 |
| 50 | 0 | 0 | 0 | 0.629 | 4.38 | 720 | 4.30 | 732 |
| 60 | 0 | 0 | 0 | 0.629 | 4.49 | 702 | 4.42 | 713 |
| 70 | 0 | 0 | 0 | 0.629 | 4.60 | 685 | 4.53 | 695 |
| 80 | 0 | 0 | 0 | 0.629 | 4.71 | 669 | 4.65 | 678 |
| 90 | 0 | 0 | 0 | 0.629 | 4.82 | 653 | 4.76 | 662 |
| 100 | 0 | 0 | 0 | 0.629 | 4.93 | 639 | 4.87 | 647 |
| 110 | 0 | 0 | 0 | 0.629 | 5.04 | 626 | 4.98 | 633 |
| 120 | 0 | 0 | 0 | 0.629 | 5.14 | 613 | 5.09 | 620 |
| 130 | 0 | 0 | 0 | 0.629 | 5.25 | 601 | 5.19 | 607 |
| 167 | 0 | 0 | 0 | 0.629 | 5.60 | 564 | 5.54 | 570 |
| 212 | 0 | 0 | 0 | 0.629 | 5.99 | 527 | 5.93 | 532 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 11.24 | 2000 | 11.24 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 10.00 | 710 | 9.92 | 717 |
| 30 | 0 | 0 | 0 | 0.629 | 10.37 | 686 | 10.29 | 691 |
| 40 | 0 | 0 | 0 | 0.629 | 10.49 | 678 | 10.41 | 683 |
| 50 | 0 | 0 | 0 | 0.629 | 10.61 | 670 | 10.53 | 675 |
| 60 | 0 | 0 | 0 | 0.629 | 10.73 | 663 | 10.65 | 668 |
| 70 | 0 | 0 | 0 | 0.629 | 10.85 | 656 | 10.77 | 660 |
| 80 | 0 | 0 | 0 | 0.629 | 10.96 | 649 | 10.89 | 653 |
| 90 | 0 | 0 | 0 | 0.629 | 11.08 | 642 | 11.01 | 646 |
| 100 | 0 | 0 | 0 | 0.629 | 11.19 | 636 | 11.13 | 640 |
| 110 | 0 | 0 | 0 | 0.629 | 11.31 | 629 | 11.24 | 633 |
| 120 | 0 | 0 | 0 | 0.629 | 11.42 | 623 | 11.36 | 627 |
| 130 | 0 | 0 | 0 | 0.629 | 11.53 | 617 | 11.47 | 621 |
| 167 | 0 | 0 | 0 | 0.629 | 11.91 | 598 | 11.85 | 601 |
| 212 | 0 | 0 | 0 | 0.629 | 12.35 | 577 | 12.28 | 580 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 20.08 | 2000 | 20.08 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 18.83 | 674 | 18.75 | 677 |
| 30 | 0 | 0 | 0 | 0.629 | 19.20 | 661 | 19.12 | 664 |
| 40 | 0 | 0 | 0 | 0.629 | 19.32 | 657 | 19.24 | 660 |
| 50 | 0 | 0 | 0 | 0.629 | 19.44 | 653 | 19.36 | 656 |
| 60 | 0 | 0 | 0 | 0.629 | 19.56 | 649 | 19.48 | 652 |
| 70 | 0 | 0 | 0 | 0.629 | 19.67 | 646 | 19.60 | 648 |
| 80 | 0 | 0 | 0 | 0.629 | 19.79 | 642 | 19.72 | 644 |
| 90 | 0 | 0 | 0 | 0.629 | 19.91 | 638 | 19.84 | 640 |
| 100 | 0 | 0 | 0 | 0.629 | 20.02 | 635 | 19.96 | 637 |
| 110 | 0 | 0 | 0 | 0.629 | 20.14 | 631 | 20.07 | 633 |
| 120 | 0 | 0 | 0 | 0.629 | 20.26 | 627 | 20.19 | 629 |
| 130 | 0 | 0 | 0 | 0.629 | 20.37 | 624 | 20.31 | 626 |
| 167 | 0 | 0 | 0 | 0.629 | 20.77 | 612 | 20.71 | 614 |
| 212 | 0 | 0 | 0 | 0.629 | 21.22 | 599 | 21.16 | 601 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 1.988 | 31.55 | 2000 | 31.55 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 30.31 | 658 | 30.22 | 660 |
| 30 | 0 | 0 | 0 | 0.629 | 30.67 | 651 | 30.59 | 652 |
| 40 | 0 | 0 | 0 | 0.629 | 30.79 | 648 | 30.71 | 650 |
| 50 | 0 | 0 | 0 | 0.629 | 30.91 | 646 | 30.83 | 647 |
| 60 | 0 | 0 | 0 | 0.629 | 31.03 | 643 | 30.95 | 645 |
| 70 | 0 | 0 | 0 | 0.629 | 31.15 | 641 | 31.07 | 642 |
| 80 | 0 | 0 | 0 | 0.629 | 31.27 | 639 | 31.19 | 640 |
| 90 | 0 | 0 | 0 | 0.629 | 31.38 | 636 | 31.31 | 638 |
| 100 | 0 | 0 | 0 | 0.629 | 31.50 | 634 | 31.43 | 635 |
| 110 | 0 | 0 | 0 | 0.629 | 31.62 | 632 | 31.55 | 633 |
| 120 | 0 | 0 | 0 | 0.629 | 31.73 | 629 | 31.67 | 631 |
| 130 | 0 | 0 | 0 | 0.629 | 31.85 | 627 | 31.79 | 628 |
| 167 | 0 | 0 | 0 | 0.629 | 32.26 | 620 | 32.19 | 621 |
| 212 | 0 | 0 | 0 | 0.629 | 32.72 | 611 | 32.66 | 612 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 100.00 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 125.00 | 1-0 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 1-11 |
| 150.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 |
| 175.00 | 1-11 | 2-0 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 |
| 200.00 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 4-0 | 4-4 | 4-8 | 5-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 150.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 |
| 175.00 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-11 |
| 200.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-7 | 3-10 | 4-2 | 4-6 | 4-10 | 5-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.45

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 |
| 150.00 | 2-3 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 |
| 175.00 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 200.00 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 |
| 225.00 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-9 | 5-11 | 6-0 | 6-2 | 6-4 |
| 250.00 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 |
| 125.00 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 |
| 150.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 |
| 175.00 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 |
| 200.00 | 4-0 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-9 | 4-10 | 4-11 | 5-0 |
| 225.00 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-10 | 6-0 | 6-1 | 6-3 | 6-5 |
| 250.00 | 6-3 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.46

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-10 |
| 175.00 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 |
| 200.00 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 4-11 | 5-0 |
| 225.00 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-4 |
| 250.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 275.00 | 8-6 | 8-8 | 8-9 | 8-10 | 8-11 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 |
| 300.00 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 | 10-9 | 10-11 | 11-0 | 11-2 | 11-3 |
| 325.00 | 11-11 | 12-1 | 12-3 | 12-4 | 12-6 | 12-8 | 12-9 | 12-11 | 13-1 | 13-2 |
| 350.00 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 |
| 375.00 | 15-11 | 16-1 | 16-3 | 16-6 | 16-8 | 16-10 | 17-0 | 17-3 | 17-5 | 17-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 |
| 175.00 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 |
| 200.00 | 4-7 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 |
| 225.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 |
| 250.00 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 275.00 | 8-7 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-6 |
| 300.00 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 |
| 325.00 | 12-0 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-2 | 13-3 |
| 350.00 | 14-0 | 14-2 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 |
| 375.00 | 16-0 | 16-3 | 16-5 | 16-7 | 16-9 | 17-0 | 17-2 | 17-4 | 17-6 | 17-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.47

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 |
| 225.00 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 |
| 250.00 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 |
| 275.00 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 |
| 300.00 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-3 |
| 325.00 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 |
| 350.00 | 14-6 | 14-7 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 |
| 375.00 | 16-8 | 16-10 | 16-11 | 17-0 | 17-1 | 17-3 | 17-4 | 17-5 | 17-6 | 17-8 |
| 400.00 | 19-0 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 | 19-11 | 20-1 |
| 425.00 | 21-5 | 21-7 | 21-9 | 21-10 | 22-0 | 22-2 | 22-3 | 22-5 | 22-6 | 22-8 |
| 450.00 | 24-1 | 24-3 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-3 | 25-5 |
| 475.00 | 26-10 | 27-0 | 27-2 | 27-4 | 27-6 | 27-8 | 27-10 | 28-0 | 28-2 | 28-4 |
| 500.00 | 29-9 | 29-11 | 30-1 | 30-4 | 30-6 | 30-8 | 30-10 | 31-1 | 31-3 | 31-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 |
| 225.00 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 |
| 250.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 |
| 275.00 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 |
| 300.00 | 10-9 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-4 |
| 325.00 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 |
| 350.00 | 14-7 | 14-8 | 14-9 | 14-10 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 |
| 375.00 | 16-9 | 16-10 | 17-0 | 17-1 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-8 |
| 400.00 | 19-1 | 19-2 | 19-4 | 19-5 | 19-7 | 19-8 | 19-10 | 19-11 | 20-0 | 20-2 |
| 425.00 | 21-7 | 21-8 | 21-10 | 21-11 | 22-1 | 22-3 | 22-4 | 22-6 | 22-7 | 22-9 |
| 450.00 | 24-2 | 24-4 | 24-6 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-4 | 25-6 |
| 475.00 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-9 | 27-11 | 28-1 | 28-3 | 28-5 |
| 500.00 | 29-10 | 30-1 | 30-3 | 30-5 | 30-7 | 30-10 | 31-0 | 31-2 | 31-4 | 31-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 |
| 275.00 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 |
| 300.00 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 |
| 325.00 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 |
| 350.00 | 14-11 | 14-11 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-4 | 15-4 | 15-5 |
| 375.00 | 17-1 | 17-2 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-8 |
| 400.00 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 |
| 425.00 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 |
| 450.00 | 24-8 | 24-9 | 24-10 | 24-11 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 |
| 475.00 | 27-6 | 27-7 | 27-8 | 27-10 | 27-11 | 28-0 | 28-2 | 28-3 | 28-4 | 28-6 |
| 500.00 | 30-6 | 30-7 | 30-9 | 30-10 | 30-11 | 31-1 | 31-2 | 31-4 | 31-5 | 31-7 |
| 525.00 | 33-7 | 33-9 | 33-10 | 34-0 | 34-2 | 34-3 | 34-5 | 34-6 | 34-8 | 34-10 |
| 550.00 | 36-11 | 37-1 | 37-2 | 37-4 | 37-6 | 37-8 | 37-9 | 37-11 | 38-1 | 38-3 |
| 575.00 | 40-4 | 40-6 | 40-8 | 40-10 | 41-0 | 41-2 | 41-4 | 41-6 | 41-8 | 41-10 |
| 600.00 | 44-0 | 44-2 | 44-4 | 44-6 | 44-8 | 44-10 | 45-0 | 45-2 | 45-4 | 45-6 |
| 625.00 | 47-9 | 47-11 | 48-1 | 48-4 | 48-6 | 48-8 | 48-11 | 49-1 | 49-3 | 49-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-7 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 |
| 275.00 | 9-3 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-6 |
| 300.00 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 |
| 325.00 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 |
| 350.00 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-5 |
| 375.00 | 17-2 | 17-3 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 | 17-9 |
| 400.00 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-1 | 20-2 |
| 425.00 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 |
| 450.00 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 | 25-4 | 25-5 | 25-6 | 25-7 |
| 475.00 | 27-7 | 27-8 | 27-9 | 27-11 | 28-0 | 28-1 | 28-2 | 28-4 | 28-5 | 28-6 |
| 500.00 | 30-7 | 30-8 | 30-10 | 30-11 | 31-0 | 31-2 | 31-3 | 31-5 | 31-6 | 31-7 |
| 525.00 | 33-8 | 33-10 | 34-0 | 34-1 | 34-3 | 34-4 | 34-6 | 34-7 | 34-9 | 34-11 |
| 550.00 | 37-0 | 37-2 | 37-4 | 37-5 | 37-7 | 37-9 | 37-10 | 38-0 | 38-2 | 38-4 |
| 575.00 | 40-6 | 40-8 | 40-9 | 40-11 | 41-1 | 41-3 | 41-5 | 41-7 | 41-9 | 41-11 |
| 600.00 | 44-1 | 44-3 | 44-5 | 44-7 | 44-9 | 44-11 | 45-1 | 45-4 | 45-6 | 45-8 |
| 625.00 | 47-10 | 48-1 | 48-3 | 48-5 | 48-7 | 48-10 | 49-0 | 49-2 | 49-4 | 49-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 5.82 | 1000 | 5.82 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 5.65 | 141 | 5.63 | 141 |
| 30 | 0 | 0 | 0 | 0.629 | 5.73 | 139 | 5.71 | 139 |
| 40 | 0 | 0 | 0 | 0.629 | 5.75 | 139 | 5.74 | 139 |
| 50 | 0 | 0 | 0 | 0.629 | 5.78 | 138 | 5.77 | 138 |
| 60 | 0 | 0 | 0 | 0.629 | 5.8 | 137 | 5.79 | 138 |
| 70 | 0 | 0 | 0 | 0.629 | 5.83 | 137 | 5.82 | 137 |
| 80 | 0 | 0 | 0 | 0.629 | 5.85 | 136 | 5.85 | 136 |
| 90 | 0 | 0 | 0 | 0.629 | 5.88 | 136 | 5.87 | 136 |
| 100 | 0 | 0 | 0 | 0.629 | 5.9 | 135 | 5.89 | 135 |
| 110 | 0 | 0 | 0 | 0.629 | 5.93 | 134 | 5.91 | 135 |
| 120 | 0 | 0 | 0 | 0.629 | 5.95 | 134 | 5.94 | 134 |
| 130 | 0 | 0 | 0 | 0.629 | 5.97 | 133 | 5.96 | 134 |
| 167 | 0 | 0 | 0 | 0.629 | 6.06 | 132 | 6.04 | 132 |
| 212 | 0 | 0 | 0 | 0.629 | 6.16 | 130 | 6.15 | 130 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 24.33 | 1000 | 24.33 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 24.16 | 138 | 24.15 | 138 |
| 30 | 0 | 0 | 0 | 0.629 | 24.24 | 137 | 24.23 | 137 |
| 40 | 0 | 0 | 0 | 0.629 | 24.26 | 137 | 24.25 | 137 |
| 50 | 0 | 0 | 0 | 0.629 | 24.29 | 137 | 24.28 | 137 |
| 60 | 0 | 0 | 0 | 0.629 | 24.31 | 137 | 24.3 | 137 |
| 70 | 0 | 0 | 0 | 0.629 | 24.34 | 137 | 24.33 | 137 |
| 80 | 0 | 0 | 0 | 0.629 | 24.36 | 137 | 24.36 | 137 |
| 90 | 0 | 0 | 0 | 0.629 | 24.39 | 137 | 24.38 | 137 |
| 100 | 0 | 0 | 0 | 0.629 | 24.42 | 137 | 24.4 | 137 |
| 110 | 0 | 0 | 0 | 0.629 | 24.44 | 136 | 24.43 | 136 |
| 120 | 0 | 0 | 0 | 0.629 | 24.46 | 136 | 24.45 | 136 |
| 130 | 0 | 0 | 0 | 0.629 | 24.49 | 136 | 24.47 | 136 |
| 167 | 0 | 0 | 0 | 0.629 | 24.57 | 136 | 24.56 | 136 |
| 212 | 0 | 0 | 0 | 0.629 | 24.68 | 135 | 24.66 | 135 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 60.04 | 1000 | 60.04 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 59.87 | 137 | 59.86 | 137 |
| 30 | 0 | 0 | 0 | 0.629 | 59.95 | 137 | 59.94 | 137 |
| 40 | 0 | 0 | 0 | 0.629 | 59.97 | 137 | 59.96 | 137 |
| 50 | 0 | 0 | 0 | 0.629 | 60 | 137 | 59.99 | 137 |
| 60 | 0 | 0 | 0 | 0.629 | 60.02 | 137 | 60.01 | 137 |
| 70 | 0 | 0 | 0 | 0.629 | 60.05 | 137 | 60.04 | 137 |
| 80 | 0 | 0 | 0 | 0.629 | 60.07 | 137 | 60.06 | 137 |
| 90 | 0 | 0 | 0 | 0.629 | 60.1 | 137 | 60.09 | 137 |
| 100 | 0 | 0 | 0 | 0.629 | 60.12 | 137 | 60.11 | 137 |
| 110 | 0 | 0 | 0 | 0.629 | 60.15 | 137 | 60.13 | 137 |
| 120 | 0 | 0 | 0 | 0.629 | 60.17 | 137 | 60.16 | 137 |
| 130 | 0 | 0 | 0 | 0.629 | 60.19 | 137 | 60.18 | 137 |
| 167 | 0 | 0 | 0 | 0.629 | 60.28 | 137 | 60.26 | 137 |
| 212 | 0 | 0 | 0 | 0.629 | 60.38 | 136 | 60.37 | 136 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 134.07 | 1000 | 134.07 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 133.91 | 137 | 133.9 | 137 |
| 30 | 0 | 0 | 0 | 0.629 | 133.98 | 137 | 133.97 | 137 |
| 40 | 0 | 0 | 0 | 0.629 | 134 | 137 | 133.99 | 137 |
| 50 | 0 | 0 | 0 | 0.629 | 134.03 | 137 | 134.02 | 137 |
| 60 | 0 | 0 | 0 | 0.629 | 134.05 | 137 | 134.04 | 137 |
| 70 | 0 | 0 | 0 | 0.629 | 134.08 | 137 | 134.07 | 137 |
| 80 | 0 | 0 | 0 | 0.629 | 134.1 | 137 | 134.09 | 137 |
| 90 | 0 | 0 | 0 | 0.629 | 134.12 | 137 | 134.11 | 137 |
| 100 | 0 | 0 | 0 | 0.629 | 134.15 | 137 | 134.13 | 137 |
| 110 | 0 | 0 | 0 | 0.629 | 134.17 | 137 | 134.16 | 137 |
| 120 | 0 | 0 | 0 | 0.629 | 134.19 | 137 | 134.18 | 137 |
| 130 | 0 | 0 | 0 | 0.629 | 134.21 | 137 | 134.2 | 137 |
| 167 | 0 | 0 | 0 | 0.629 | 134.29 | 137 | 134.28 | 137 |
| 212 | 0 | 0 | 0 | 0.629 | 134.39 | 137 | 134.38 | 137 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 |
| 100.00 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 |
| 125.00 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 |
| 150.00 | 12-10 | 12-11 | 13-0 | 13-1 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-5 |
| 175.00 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-3 |
| 200.00 | 23-1 | 23-2 | 23-3 | 23-5 | 23-6 | 23-7 | 23-8 | 23-10 | 23-11 | 24-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3-2 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 |
| 100.00 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 |
| 125.00 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 |
| 150.00 | 12-11 | 12-11 | 13-0 | 13-1 | 13-2 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 |
| 175.00 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-3 | 18-4 |
| 200.00 | 23-1 | 23-2 | 23-4 | 23-5 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 | 24-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 |
| 125.00 | 9-4 | 9-4 | 9-4 | 9-5 | 9-5 | 9-5 | 9-5 | 9-5 | 9-5 | 9-5 |
| 150.00 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-8 |
| 175.00 | 18-5 | 18-6 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 | 18-7 | 18-7 |
| 200.00 | 24-2 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 | 24-4 | 24-5 | 24-5 | 24-5 |
| 225.00 | 30-9 | 30-10 | 30-10 | 30-11 | 30-11 | 30-11 | 31-0 | 31-0 | 31-0 | 31-1 |
| 250.00 | 38-3 | 38-3 | 38-4 | 38-4 | 38-5 | 38-5 | 38-6 | 38-6 | 38-6 | 38-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 |
| 125.00 | 9-4 | 9-4 | 9-4 | 9-5 | 9-5 | 9-5 | 9-5 | 9-5 | 9-5 | 9-5 |
| 150.00 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-8 |
| 175.00 | 18-5 | 18-6 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 | 18-7 | 18-8 |
| 200.00 | 24-3 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 | 24-4 | 24-5 | 24-5 | 24-5 |
| 225.00 | 30-10 | 30-10 | 30-10 | 30-11 | 30-11 | 31-0 | 31-0 | 31-0 | 31-1 | 31-1 |
| 250.00 | 38-3 | 38-3 | 38-4 | 38-4 | 38-5 | 38-5 | 38-6 | 38-6 | 38-7 | 38-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-6 | 14-6 | 14-6 | 14-6 | 14-6 |
| 175.00 | 19-9 | 19-9 | 19-9 | 19-9 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-10 |
| 200.00 | 25-11 | 25-11 | 25-11 | 25-11 | 26-0 | 26-0 | 26-0 | 26-0 | 26-0 | 26-0 |
| 225.00 | 33-0 | 33-0 | 33-0 | 33-0 | 33-1 | 33-1 | 33-1 | 33-1 | 33-1 | 33-1 |
| 250.00 | 41-0 | 41-0 | 41-0 | 41-1 | 41-1 | 41-1 | 41-1 | 41-1 | 41-2 | 41-2 |
| 275.00 | 49-11 | 50-0 | 50-0 | 50-0 | 50-1 | 50-1 | 50-1 | 50-1 | 50-1 | 50-2 |
| 300.00 | 59-11 | 59-11 | 60-0 | 60-0 | 60-0 | 60-0 | 60-1 | 60-1 | 60-1 | 60-2 |
| 325.00 | 70-11 | 70-11 | 70-11 | 71-0 | 71-0 | 71-1 | 71-1 | 71-1 | 71-2 | 71-2 |
| 350.00 | 83-0 | 83-0 | 83-0 | 83-1 | 83-1 | 83-2 | 83-2 | 83-3 | 83-3 | 83-3 |
| 375.00 | 96-2 | 96-2 | 96-3 | 96-3 | 96-4 | 96-4 | 96-5 | 96-5 | 96-6 | 96-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-6 | 14-6 | 14-6 | 14-6 | 14-6 |
| 175.00 | 19-9 | 19-9 | 19-9 | 19-9 | 19-9 | 19-10 | 19-10 | 19-10 | 19-10 | 19-10 |
| 200.00 | 25-11 | 25-11 | 25-11 | 26-0 | 26-0 | 26-0 | 26-0 | 26-0 | 26-0 | 26-0 |
| 225.00 | 33-0 | 33-0 | 33-0 | 33-1 | 33-1 | 33-1 | 33-1 | 33-1 | 33-1 | 33-1 |
| 250.00 | 41-0 | 41-0 | 41-0 | 41-1 | 41-1 | 41-1 | 41-1 | 41-1 | 41-2 | 41-2 |
| 275.00 | 50-0 | 50-0 | 50-0 | 50-0 | 50-1 | 50-1 | 50-1 | 50-1 | 50-2 | 50-2 |
| 300.00 | 59-11 | 59-11 | 60-0 | 60-0 | 60-0 | 60-1 | 60-1 | 60-1 | 60-1 | 60-2 |
| 325.00 | 70-11 | 70-11 | 71-0 | 71-0 | 71-0 | 71-1 | 71-1 | 71-1 | 71-2 | 71-2 |
| 350.00 | 83-0 | 83-0 | 83-1 | 83-1 | 83-1 | 83-2 | 83-2 | 83-3 | 83-3 | 83-4 |
| 375.00 | 96-2 | 96-3 | 96-3 | 96-4 | 96-4 | 96-5 | 96-5 | 96-6 | 96-6 | 96-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 30-8 | 30-8 | 30-8 | 30-8 | 30-8 | 30-8 | 30-9 | 30-9 | 30-9 | 30-9 |
| 225.00 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 |
| 250.00 | 48-9 | 48-9 | 48-9 | 48-9 | 48-9 | 48-9 | 48-9 | 48-10 | 48-10 | 48-10 |
| 275.00 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-8 |
| 300.00 | 71-7 | 71-7 | 71-8 | 71-8 | 71-8 | 71-8 | 71-8 | 71-8 | 71-8 | 71-9 |
| 325.00 | 85-0 | 85-0 | 85-0 | 85-1 | 85-1 | 85-1 | 85-1 | 85-1 | 85-1 | 85-2 |
| 350.00 | 99-10 | 99-10 | 99-10 | 99-10 | 99-10 | 99-11 | 99-11 | 99-11 | 99-11 | 99-11 |
| 375.00 | 116-1 | 116-1 | 116-2 | 116-2 | 116-2 | 116-2 | 116-3 | 116-3 | 116-3 | 116-3 |
| 400.00 | 133-11 | 134-0 | 134-0 | 134-0 | 134-1 | 134-1 | 134-1 | 134-1 | 134-2 | 134-2 |
| 425.00 | 153-6 | 153-6 | 153-6 | 153-7 | 153-7 | 153-7 | 153-8 | 153-8 | 153-8 | 153-9 |
| 450.00 | 174-10 | 174-10 | 174-10 | 174-11 | 174-11 | 175-0 | 175-0 | 175-0 | 175-1 | 175-1 |
| 475.00 | 198-0 | 198-1 | 198-1 | 198-2 | 198-2 | 198-2 | 198-3 | 198-3 | 198-4 | 198-4 |
| 500.00 | 223-3 | 223-4 | 223-4 | 223-5 | 223-5 | 223-6 | 223-6 | 223-7 | 223-7 | 223-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 30-8 | 30-8 | 30-8 | 30-8 | 30-8 | 30-8 | 30-9 | 30-9 | 30-9 | 30-9 |
| 225.00 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 | 39-2 |
| 250.00 | 48-9 | 48-9 | 48-9 | 48-9 | 48-9 | 48-9 | 48-9 | 48-10 | 48-10 | 48-10 |
| 275.00 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-8 |
| 300.00 | 71-7 | 71-8 | 71-8 | 71-8 | 71-8 | 71-8 | 71-8 | 71-8 | 71-9 | 71-9 |
| 325.00 | 85-0 | 85-0 | 85-0 | 85-1 | 85-1 | 85-1 | 85-1 | 85-1 | 85-1 | 85-2 |
| 350.00 | 99-10 | 99-10 | 99-10 | 99-10 | 99-11 | 99-11 | 99-11 | 99-11 | 99-11 | 100-0 |
| 375.00 | 116-1 | 116-1 | 116-2 | 116-2 | 116-2 | 116-2 | 116-3 | 116-3 | 116-3 | 116-3 |
| 400.00 | 133-11 | 134-0 | 134-0 | 134-0 | 134-1 | 134-1 | 134-1 | 134-1 | 134-2 | 134-2 |
| 425.00 | 153-6 | 153-6 | 153-7 | 153-7 | 153-7 | 153-8 | 153-8 | 153-8 | 153-9 | 153-9 |
| 450.00 | 174-10 | 174-10 | 174-11 | 174-11 | 174-11 | 175-0 | 175-0 | 175-0 | 175-1 | 175-1 |
| 475.00 | 198-0 | 198-1 | 198-1 | 198-2 | 198-2 | 198-3 | 198-3 | 198-4 | 198-4 | 198-4 |
| 500.00 | 223-3 | 223-4 | 223-4 | 223-5 | 223-5 | 223-6 | 223-7 | 223-7 | 223-8 | 223-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 3.85 | 1500 | 3.85 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 3.45 | 229 | 3.43 | 231 |
| 30 | 0 | 0 | 0 | 0.629 | 3.58 | 221 | 3.55 | 222 |
| 40 | 0 | 0 | 0 | 0.629 | 3.62 | 218 | 3.59 | 220 |
| 50 | 0 | 0 | 0 | 0.629 | 3.66 | 216 | 3.64 | 217 |
| 60 | 0 | 0 | 0 | 0.629 | 3.70 | 214 | 3.68 | 215 |
| 70 | 0 | 0 | 0 | 0.629 | 3.74 | 212 | 3.72 | 213 |
| 80 | 0 | 0 | 0 | 0.629 | 3.78 | 209 | 3.76 | 210 |
| 90 | 0 | 0 | 0 | 0.629 | 3.82 | 207 | 3.79 | 208 |
| 100 | 0 | 0 | 0 | 0.629 | 3.85 | 205 | 3.83 | 207 |
| 110 | 0 | 0 | 0 | 0.629 | 3.89 | 203 | 3.86 | 205 |
| 120 | 0 | 0 | 0 | 0.629 | 3.92 | 202 | 3.90 | 203 |
| 130 | 0 | 0 | 0 | 0.629 | 3.96 | 200 | 3.93 | 201 |
| 167 | 0 | 0 | 0 | 0.629 | 4.08 | 194 | 4.06 | 195 |
| 212 | 0 | 0 | 0 | 0.629 | 4.23 | 187 | 4.20 | 188 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 15.69 | 1500 | 15.69 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 15.30 | 210 | 15.27 | 211 |
| 30 | 0 | 0 | 0 | 0.629 | 15.42 | 209 | 15.39 | 209 |
| 40 | 0 | 0 | 0 | 0.629 | 15.46 | 208 | 15.43 | 209 |
| 50 | 0 | 0 | 0 | 0.629 | 15.50 | 208 | 15.47 | 208 |
| 60 | 0 | 0 | 0 | 0.629 | 15.54 | 207 | 15.51 | 208 |
| 70 | 0 | 0 | 0 | 0.629 | 15.57 | 207 | 15.55 | 207 |
| 80 | 0 | 0 | 0 | 0.629 | 15.61 | 206 | 15.59 | 207 |
| 90 | 0 | 0 | 0 | 0.629 | 15.65 | 206 | 15.63 | 206 |
| 100 | 0 | 0 | 0 | 0.629 | 15.69 | 205 | 15.67 | 206 |
| 110 | 0 | 0 | 0 | 0.629 | 15.73 | 205 | 15.70 | 205 |
| 120 | 0 | 0 | 0 | 0.629 | 15.76 | 204 | 15.74 | 205 |
| 130 | 0 | 0 | 0 | 0.629 | 15.80 | 204 | 15.77 | 204 |
| 167 | 0 | 0 | 0 | 0.629 | 15.93 | 203 | 15.90 | 203 |
| 212 | 0 | 0 | 0 | 0.629 | 16.08 | 201 | 16.05 | 201 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 36.49 | 1500 | 36.49 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 36.11 | 207 | 36.08 | 208 |
| 30 | 0 | 0 | 0 | 0.629 | 36.23 | 207 | 36.20 | 207 |
| 40 | 0 | 0 | 0 | 0.629 | 36.27 | 207 | 36.24 | 207 |
| 50 | 0 | 0 | 0 | 0.629 | 36.30 | 206 | 36.28 | 207 |
| 60 | 0 | 0 | 0 | 0.629 | 36.34 | 206 | 36.32 | 206 |
| 70 | 0 | 0 | 0 | 0.629 | 36.38 | 206 | 36.36 | 206 |
| 80 | 0 | 0 | 0 | 0.629 | 36.42 | 206 | 36.40 | 206 |
| 90 | 0 | 0 | 0 | 0.629 | 36.46 | 206 | 36.44 | 206 |
| 100 | 0 | 0 | 0 | 0.629 | 36.50 | 205 | 36.47 | 206 |
| 110 | 0 | 0 | 0 | 0.629 | 36.53 | 205 | 36.51 | 205 |
| 120 | 0 | 0 | 0 | 0.629 | 36.57 | 205 | 36.54 | 205 |
| 130 | 0 | 0 | 0 | 0.629 | 36.60 | 205 | 36.58 | 205 |
| 167 | 0 | 0 | 0 | 0.629 | 36.73 | 204 | 36.71 | 204 |
| 212 | 0 | 0 | 0 | 0.629 | 36.89 | 203 | 36.86 | 204 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 68.48 | 1500 | 68.48 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 68.10 | 206 | 68.07 | 206 |
| 30 | 0 | 0 | 0 | 0.629 | 68.21 | 206 | 68.19 | 206 |
| 40 | 0 | 0 | 0 | 0.629 | 68.25 | 206 | 68.23 | 206 |
| 50 | 0 | 0 | 0 | 0.629 | 68.29 | 206 | 68.27 | 206 |
| 60 | 0 | 0 | 0 | 0.629 | 68.33 | 206 | 68.30 | 206 |
| 70 | 0 | 0 | 0 | 0.629 | 68.36 | 206 | 68.34 | 206 |
| 80 | 0 | 0 | 0 | 0.629 | 68.40 | 206 | 68.38 | 206 |
| 90 | 0 | 0 | 0 | 0.629 | 68.44 | 206 | 68.42 | 206 |
| 100 | 0 | 0 | 0 | 0.629 | 68.48 | 205 | 68.45 | 205 |
| 110 | 0 | 0 | 0 | 0.629 | 68.52 | 205 | 68.49 | 205 |
| 120 | 0 | 0 | 0 | 0.629 | 68.55 | 205 | 68.52 | 205 |
| 130 | 0 | 0 | 0 | 0.629 | 68.59 | 205 | 68.56 | 205 |
| 167 | 0 | 0 | 0 | 0.629 | 68.71 | 205 | 68.69 | 205 |
| 212 | 0 | 0 | 0 | 0.629 | 68.87 | 205 | 68.84 | 205 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 116.90 | 1500 | 116.90 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 116.53 | 206 | 116.50 | 206 |
| 30 | 0 | 0 | 0 | 0.629 | 116.64 | 206 | 116.61 | 206 |
| 40 | 0 | 0 | 0 | 0.629 | 116.68 | 206 | 116.65 | 206 |
| 50 | 0 | 0 | 0 | 0.629 | 116.71 | 206 | 116.69 | 206 |
| 60 | 0 | 0 | 0 | 0.629 | 116.75 | 206 | 116.73 | 206 |
| 70 | 0 | 0 | 0 | 0.629 | 116.79 | 206 | 116.77 | 206 |
| 80 | 0 | 0 | 0 | 0.629 | 116.83 | 206 | 116.81 | 206 |
| 90 | 0 | 0 | 0 | 0.629 | 116.86 | 205 | 116.84 | 206 |
| 100 | 0 | 0 | 0 | 0.629 | 116.90 | 205 | 116.88 | 205 |
| 110 | 0 | 0 | 0 | 0.629 | 116.94 | 205 | 116.91 | 205 |
| 120 | 0 | 0 | 0 | 0.629 | 116.97 | 205 | 116.95 | 205 |
| 130 | 0 | 0 | 0 | 0.629 | 117.01 | 205 | 116.98 | 205 |
| 167 | 0 | 0 | 0 | 0.629 | 117.13 | 205 | 117.11 | 205 |
| 212 | 0 | 0 | 0 | 0.629 | 117.29 | 205 | 117.26 | 205 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 |
| 100.00 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 |
| 125.00 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 |
| 150.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 175.00 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-9 | 11-11 |
| 200.00 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 |
| 100.00 | 3-6 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 |
| 125.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 |
| 150.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 |
| 175.00 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-9 | 11-10 | 12-0 |
| 200.00 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.59

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 |
| 125.00 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 |
| 150.00 | 8-7 | 8-8 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 |
| 175.00 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 12-0 | 12-0 |
| 200.00 | 15-4 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-8 |
| 225.00 | 19-6 | 19-6 | 19-7 | 19-7 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 |
| 250.00 | 24-1 | 24-2 | 24-3 | 24-3 | 24-4 | 24-5 | 24-6 | 24-6 | 24-7 | 24-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 |
| 125.00 | 6-0 | 6-0 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 |
| 150.00 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 |
| 175.00 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-0 |
| 200.00 | 15-5 | 15-5 | 15-5 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 |
| 225.00 | 19-6 | 19-7 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 |
| 250.00 | 24-2 | 24-2 | 24-3 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-8 | 24-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.60

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 8-11 | 8-11 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 |
| 175.00 | 12-2 | 12-2 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 |
| 200.00 | 15-11 | 15-11 | 15-11 | 15-11 | 16-0 | 16-0 | 16-0 | 16-0 | 16-0 | 16-1 |
| 225.00 | 20-2 | 20-2 | 20-3 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-4 |
| 250.00 | 25-0 | 25-0 | 25-0 | 25-1 | 25-1 | 25-1 | 25-2 | 25-2 | 25-2 | 25-2 |
| 275.00 | 30-4 | 30-4 | 30-4 | 30-5 | 30-5 | 30-6 | 30-6 | 30-6 | 30-7 | 30-7 |
| 300.00 | 36-2 | 36-2 | 36-3 | 36-3 | 36-4 | 36-4 | 36-5 | 36-5 | 36-6 | 36-6 |
| 325.00 | 42-7 | 42-8 | 42-8 | 42-9 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 43-0 |
| 350.00 | 49-7 | 49-7 | 49-8 | 49-9 | 49-9 | 49-10 | 49-11 | 49-11 | 50-0 | 50-0 |
| 375.00 | 57-1 | 57-2 | 57-3 | 57-3 | 57-4 | 57-5 | 57-6 | 57-6 | 57-7 | 57-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 8-11 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 | 9-0 |
| 175.00 | 12-2 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 | 12-3 |
| 200.00 | 15-11 | 15-11 | 15-11 | 16-0 | 16-0 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 |
| 225.00 | 20-2 | 20-3 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-4 | 20-5 |
| 250.00 | 25-0 | 25-0 | 25-0 | 25-1 | 25-1 | 25-1 | 25-2 | 25-2 | 25-2 | 25-3 |
| 275.00 | 30-4 | 30-4 | 30-5 | 30-5 | 30-5 | 30-6 | 30-6 | 30-7 | 30-7 | 30-7 |
| 300.00 | 36-2 | 36-3 | 36-3 | 36-4 | 36-4 | 36-5 | 36-5 | 36-6 | 36-6 | 36-6 |
| 325.00 | 42-7 | 42-8 | 42-8 | 42-9 | 42-10 | 42-10 | 42-11 | 42-11 | 43-0 | 43-0 |
| 350.00 | 49-7 | 49-8 | 49-8 | 49-9 | 49-10 | 49-10 | 49-11 | 50-0 | 50-0 | 50-1 |
| 375.00 | 57-2 | 57-2 | 57-3 | 57-4 | 57-5 | 57-5 | 57-6 | 57-7 | 57-8 | 57-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 16-7 | 16-7 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 |
| 225.00 | 21-0 | 21-1 | 21-1 | 21-1 | 21-1 | 21-1 | 21-1 | 21-1 | 21-2 | 21-2 |
| 250.00 | 26-1 | 26-1 | 26-1 | 26-1 | 26-1 | 26-1 | 26-2 | 26-2 | 26-2 | 26-2 |
| 275.00 | 31-7 | 31-8 | 31-8 | 31-8 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 | 31-9 |
| 300.00 | 37-9 | 37-9 | 37-9 | 37-10 | 37-10 | 37-10 | 37-10 | 37-11 | 37-11 | 37-11 |
| 325.00 | 44-5 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 | 44-7 | 44-7 | 44-8 | 44-8 |
| 350.00 | 51-9 | 51-9 | 51-10 | 51-10 | 51-10 | 51-11 | 51-11 | 51-11 | 52-0 | 52-0 |
| 375.00 | 59-8 | 59-8 | 59-8 | 59-9 | 59-9 | 59-10 | 59-10 | 59-10 | 59-11 | 59-11 |
| 400.00 | 68-2 | 68-2 | 68-3 | 68-3 | 68-4 | 68-4 | 68-5 | 68-5 | 68-5 | 68-6 |
| 425.00 | 77-3 | 77-4 | 77-5 | 77-5 | 77-6 | 77-6 | 77-7 | 77-7 | 77-8 | 77-8 |
| 450.00 | 87-1 | 87-1 | 87-2 | 87-3 | 87-3 | 87-4 | 87-5 | 87-5 | 87-6 | 87-6 |
| 475.00 | 97-6 | 97-7 | 97-8 | 97-8 | 97-9 | 97-10 | 97-10 | 97-11 | 98-0 | 98-0 |
| 500.00 | 108-8 | 108-8 | 108-9 | 108-10 | 108-11 | 109-0 | 109-0 | 109-1 | 109-2 | 109-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 16-7 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 | 16-8 |
| 225.00 | 21-1 | 21-1 | 21-1 | 21-1 | 21-1 | 21-1 | 21-1 | 21-2 | 21-2 | 21-2 |
| 250.00 | 26-1 | 26-1 | 26-1 | 26-1 | 26-1 | 26-1 | 26-2 | 26-2 | 26-2 | 26-2 |
| 275.00 | 31-7 | 31-8 | 31-8 | 31-8 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 | 31-9 |
| 300.00 | 37-9 | 37-9 | 37-10 | 37-10 | 37-10 | 37-10 | 37-10 | 37-11 | 37-11 | 37-11 |
| 325.00 | 44-6 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 | 44-7 | 44-8 | 44-8 | 44-8 |
| 350.00 | 51-9 | 51-9 | 51-10 | 51-10 | 51-10 | 51-11 | 51-11 | 52-0 | 52-0 | 52-0 |
| 375.00 | 59-8 | 59-8 | 59-9 | 59-9 | 59-10 | 59-10 | 59-10 | 59-11 | 59-11 | 59-11 |
| 400.00 | 68-2 | 68-3 | 68-3 | 68-3 | 68-4 | 68-4 | 68-5 | 68-5 | 68-6 | 68-6 |
| 425.00 | 77-4 | 77-4 | 77-5 | 77-5 | 77-6 | 77-6 | 77-7 | 77-7 | 77-8 | 77-9 |
| 450.00 | 87-1 | 87-2 | 87-2 | 87-3 | 87-4 | 87-4 | 87-5 | 87-5 | 87-6 | 87-7 |
| 475.00 | 97-7 | 97-7 | 97-8 | 97-9 | 97-9 | 97-10 | 97-11 | 97-11 | 98-0 | 98-1 |
| 500.00 | 108-8 | 108-9 | 108-10 | 108-10 | 108-11 | 109-0 | 109-1 | 109-2 | 109-2 | 109-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 |
| 275.00 | 33-9 | 33-9 | 33-9 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 |
| 300.00 | 40-4 | 40-4 | 40-4 | 40-4 | 40-4 | 40-4 | 40-5 | 40-5 | 40-5 | 40-5 |
| 325.00 | 47-6 | 47-6 | 47-6 | 47-6 | 47-7 | 47-7 | 47-7 | 47-7 | 47-7 | 47-7 |
| 350.00 | 55-4 | 55-4 | 55-4 | 55-4 | 55-5 | 55-5 | 55-5 | 55-5 | 55-5 | 55-6 |
| 375.00 | 63-9 | 63-10 | 63-10 | 63-10 | 63-10 | 63-11 | 63-11 | 63-11 | 63-11 | 64-0 |
| 400.00 | 72-11 | 72-11 | 73-0 | 73-0 | 73-0 | 73-1 | 73-1 | 73-1 | 73-1 | 73-2 |
| 425.00 | 82-9 | 82-9 | 82-10 | 82-10 | 82-10 | 82-11 | 82-11 | 82-11 | 83-0 | 83-0 |
| 450.00 | 93-4 | 93-4 | 93-4 | 93-5 | 93-5 | 93-5 | 93-6 | 93-6 | 93-6 | 93-7 |
| 475.00 | 104-7 | 104-7 | 104-8 | 104-8 | 104-8 | 104-9 | 104-9 | 104-10 | 104-10 | 104-10 |
| 500.00 | 116-7 | 116-7 | 116-8 | 116-8 | 116-9 | 116-9 | 116-10 | 116-10 | 116-11 | 116-11 |
| 525.00 | 129-4 | 129-5 | 129-5 | 129-6 | 129-6 | 129-7 | 129-7 | 129-8 | 129-8 | 129-9 |
| 550.00 | 142-11 | 143-0 | 143-0 | 143-1 | 143-2 | 143-2 | 143-3 | 143-3 | 143-4 | 143-4 |
| 575.00 | 157-4 | 157-5 | 157-5 | 157-6 | 157-7 | 157-7 | 157-8 | 157-8 | 157-9 | 157-10 |
| 600.00 | 172-7 | 172-8 | 172-8 | 172-9 | 172-10 | 172-11 | 172-11 | 173-0 | 173-1 | 173-1 |
| 625.00 | 188-8 | 188-9 | 188-10 | 188-11 | 189-0 | 189-0 | 189-1 | 189-2 | 189-3 | 189-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 | 27-10 |
| 275.00 | 33-9 | 33-9 | 33-9 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 |
| 300.00 | 40-4 | 40-4 | 40-4 | 40-4 | 40-4 | 40-4 | 40-5 | 40-5 | 40-5 | 40-5 |
| 325.00 | 47-6 | 47-6 | 47-6 | 47-6 | 47-7 | 47-7 | 47-7 | 47-7 | 47-7 | 47-7 |
| 350.00 | 55-4 | 55-4 | 55-4 | 55-4 | 55-5 | 55-5 | 55-5 | 55-5 | 55-5 | 55-6 |
| 375.00 | 63-10 | 63-10 | 63-10 | 63-10 | 63-11 | 63-11 | 63-11 | 63-11 | 63-11 | 64-0 |
| 400.00 | 72-11 | 73-0 | 73-0 | 73-0 | 73-0 | 73-1 | 73-1 | 73-1 | 73-2 | 73-2 |
| 425.00 | 82-9 | 82-10 | 82-10 | 82-10 | 82-11 | 82-11 | 82-11 | 83-0 | 83-0 | 83-0 |
| 450.00 | 93-4 | 93-4 | 93-5 | 93-5 | 93-5 | 93-6 | 93-6 | 93-6 | 93-7 | 93-7 |
| 475.00 | 104-7 | 104-7 | 104-8 | 104-8 | 104-9 | 104-9 | 104-9 | 104-10 | 104-10 | 104-11 |
| 500.00 | 116-7 | 116-8 | 116-8 | 116-9 | 116-9 | 116-9 | 116-10 | 116-10 | 116-11 | 116-11 |
| 525.00 | 129-5 | 129-5 | 129-6 | 129-6 | 129-7 | 129-7 | 129-8 | 129-8 | 129-9 | 129-9 |
| 550.00 | 143-0 | 143-0 | 143-1 | 143-1 | 143-2 | 143-2 | 143-3 | 143-4 | 143-4 | 143-5 |
| 575.00 | 157-4 | 157-5 | 157-6 | 157-6 | 157-7 | 157-8 | 157-8 | 157-9 | 157-9 | 157-10 |
| 600.00 | 172-7 | 172-8 | 172-9 | 172-10 | 172-10 | 172-11 | 173-0 | 173-0 | 173-1 | 173-2 |
| 625.00 | 188-9 | 188-10 | 188-10 | 188-11 | 189-0 | 189-1 | 189-2 | 189-2 | 189-3 | 189-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 2.88 | 2000 | 2.88 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 2.14 | 367 | 2.09 | 377 |
| 30 | 0 | 0 | 0 | 0.629 | 2.33 | 338 | 2.28 | 346 |
| 40 | 0 | 0 | 0 | 0.629 | 2.39 | 330 | 2.34 | 337 |
| 50 | 0 | 0 | 0 | 0.629 | 2.44 | 322 | 2.40 | 329 |
| 60 | 0 | 0 | 0 | 0.629 | 2.50 | 315 | 2.46 | 321 |
| 70 | 0 | 0 | 0 | 0.629 | 2.56 | 308 | 2.51 | 314 |
| 80 | 0 | 0 | 0 | 0.629 | 2.61 | 302 | 2.57 | 307 |
| 90 | 0 | 0 | 0 | 0.629 | 2.66 | 296 | 2.62 | 300 |
| 100 | 0 | 0 | 0 | 0.629 | 2.72 | 290 | 2.68 | 294 |
| 110 | 0 | 0 | 0 | 0.629 | 2.77 | 285 | 2.73 | 289 |
| 120 | 0 | 0 | 0 | 0.629 | 2.81 | 280 | 2.77 | 285 |
| 130 | 0 | 0 | 0 | 0.629 | 2.86 | 276 | 2.82 | 280 |
| 167 | 0 | 0 | 0 | 0.629 | 3.02 | 261 | 2.98 | 264 |
| 212 | 0 | 0 | 0 | 0.629 | 3.21 | 246 | 3.17 | 249 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 11.64 | 2000 | 11.64 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 10.95 | 291 | 10.89 | 292 |
| 30 | 0 | 0 | 0 | 0.629 | 11.11 | 287 | 11.06 | 288 |
| 40 | 0 | 0 | 0 | 0.629 | 11.16 | 285 | 11.11 | 287 |
| 50 | 0 | 0 | 0 | 0.629 | 11.21 | 284 | 11.17 | 285 |
| 60 | 0 | 0 | 0 | 0.629 | 11.26 | 283 | 11.22 | 284 |
| 70 | 0 | 0 | 0 | 0.629 | 11.32 | 281 | 11.27 | 282 |
| 80 | 0 | 0 | 0 | 0.629 | 11.37 | 280 | 11.33 | 281 |
| 90 | 0 | 0 | 0 | 0.629 | 11.42 | 279 | 11.38 | 280 |
| 100 | 0 | 0 | 0 | 0.629 | 11.47 | 278 | 11.43 | 279 |
| 110 | 0 | 0 | 0 | 0.629 | 11.52 | 277 | 11.48 | 278 |
| 120 | 0 | 0 | 0 | 0.629 | 11.57 | 275 | 11.53 | 276 |
| 130 | 0 | 0 | 0 | 0.629 | 11.62 | 274 | 11.57 | 275 |
| 167 | 0 | 0 | 0 | 0.629 | 11.79 | 271 | 11.75 | 271 |
| 212 | 0 | 0 | 0 | 0.629 | 11.99 | 266 | 11.95 | 267 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS



TABLE OF CONTENTS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 26.65 | 2000 | 26.65 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 25.97 | 281 | 25.92 | 281 |
| 30 | 0 | 0 | 0 | 0.629 | 26.12 | 279 | 26.08 | 280 |
| 40 | 0 | 0 | 0 | 0.629 | 26.18 | 279 | 26.13 | 279 |
| 50 | 0 | 0 | 0 | 0.629 | 26.23 | 278 | 26.18 | 279 |
| 60 | 0 | 0 | 0 | 0.629 | 26.28 | 278 | 26.24 | 278 |
| 70 | 0 | 0 | 0 | 0.629 | 26.33 | 277 | 26.29 | 277 |
| 80 | 0 | 0 | 0 | 0.629 | 26.38 | 277 | 26.34 | 277 |
| 90 | 0 | 0 | 0 | 0.629 | 26.44 | 276 | 26.40 | 276 |
| 100 | 0 | 0 | 0 | 0.629 | 26.49 | 276 | 26.45 | 276 |
| 110 | 0 | 0 | 0 | 0.629 | 26.54 | 275 | 26.49 | 275 |
| 120 | 0 | 0 | 0 | 0.629 | 26.58 | 275 | 26.54 | 275 |
| 130 | 0 | 0 | 0 | 0.629 | 26.63 | 274 | 26.59 | 275 |
| 167 | 0 | 0 | 0 | 0.629 | 26.80 | 272 | 26.76 | 273 |
| 212 | 0 | 0 | 0 | 0.629 | 27.01 | 270 | 26.97 | 271 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 48.66 | 2000 | 48.66 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 47.98 | 277 | 47.93 | 278 |
| 30 | 0 | 0 | 0 | 0.629 | 48.13 | 277 | 48.09 | 277 |
| 40 | 0 | 0 | 0 | 0.629 | 48.19 | 276 | 48.14 | 277 |
| 50 | 0 | 0 | 0 | 0.629 | 48.24 | 276 | 48.19 | 276 |
| 60 | 0 | 0 | 0 | 0.629 | 48.29 | 276 | 48.25 | 276 |
| 70 | 0 | 0 | 0 | 0.629 | 48.34 | 276 | 48.30 | 276 |
| 80 | 0 | 0 | 0 | 0.629 | 48.39 | 275 | 48.35 | 275 |
| 90 | 0 | 0 | 0 | 0.629 | 48.44 | 275 | 48.40 | 275 |
| 100 | 0 | 0 | 0 | 0.629 | 48.49 | 275 | 48.45 | 275 |
| 110 | 0 | 0 | 0 | 0.629 | 48.54 | 274 | 48.50 | 275 |
| 120 | 0 | 0 | 0 | 0.629 | 48.59 | 274 | 48.55 | 274 |
| 130 | 0 | 0 | 0 | 0.629 | 48.64 | 274 | 48.59 | 274 |
| 167 | 0 | 0 | 0 | 0.629 | 48.81 | 273 | 48.77 | 273 |
| 212 | 0 | 0 | 0 | 0.629 | 49.02 | 272 | 48.98 | 272 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 4.593 | 78.97 | 2000 | 78.97 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 78.30 | 276 | 78.25 | 276 |
| 30 | 0 | 0 | 0 | 0.629 | 78.45 | 275 | 78.41 | 276 |
| 40 | 0 | 0 | 0 | 0.629 | 78.51 | 275 | 78.46 | 275 |
| 50 | 0 | 0 | 0 | 0.629 | 78.56 | 275 | 78.51 | 275 |
| 60 | 0 | 0 | 0 | 0.629 | 78.61 | 275 | 78.57 | 275 |
| 70 | 0 | 0 | 0 | 0.629 | 78.66 | 275 | 78.62 | 275 |
| 80 | 0 | 0 | 0 | 0.629 | 78.71 | 275 | 78.67 | 275 |
| 90 | 0 | 0 | 0 | 0.629 | 78.76 | 275 | 78.72 | 275 |
| 100 | 0 | 0 | 0 | 0.629 | 78.81 | 274 | 78.77 | 274 |
| 110 | 0 | 0 | 0 | 0.629 | 78.86 | 274 | 78.82 | 274 |
| 120 | 0 | 0 | 0 | 0.629 | 78.91 | 274 | 78.87 | 274 |
| 130 | 0 | 0 | 0 | 0.629 | 78.95 | 274 | 78.91 | 274 |
| 167 | 0 | 0 | 0 | 0.629 | 79.13 | 273 | 79.08 | 274 |
| 212 | 0 | 0 | 0 | 0.629 | 79.33 | 273 | 79.29 | 273 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 |
| 100.00 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 |
| 125.00 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 |
| 150.00 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-2 |
| 175.00 | 6-9 | 7-0 | 7-2 | 7-4 | 7-6 | 7-9 | 7-11 | 8-1 | 8-3 | 8-4 |
| 200.00 | 8-11 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 | 10-6 | 10-9 | 10-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-9 |
| 125.00 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 |
| 150.00 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-3 |
| 175.00 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-4 | 8-6 |
| 200.00 | 9-1 | 9-4 | 9-7 | 9-10 | 10-0 | 10-3 | 10-6 | 10-8 | 10-11 | 11-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.67

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-9 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-10 | 2-10 |
| 125.00 | 4-3 | 4-4 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-5 | 4-6 |
| 150.00 | 6-2 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 |
| 175.00 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 |
| 200.00 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 |
| 225.00 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 |
| 250.00 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 | 2-10 | 2-10 | 2-10 |
| 125.00 | 4-4 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 |
| 150.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 |
| 175.00 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 |
| 200.00 | 11-1 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 | 11-6 |
| 225.00 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 |
| 250.00 | 17-4 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-10 | 17-11 | 18-0 | 18-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.68

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-6 | 6-6 | 6-6 | 6-6 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 |
| 175.00 | 8-10 | 8-10 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 | 8-11 | 8-11 |
| 200.00 | 11-6 | 11-6 | 11-7 | 11-7 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 |
| 225.00 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 | 14-10 | 14-10 |
| 250.00 | 18-0 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 |
| 275.00 | 21-10 | 21-11 | 21-11 | 22-0 | 22-0 | 22-1 | 22-1 | 22-2 | 22-2 | 22-3 |
| 300.00 | 26-0 | 26-1 | 26-2 | 26-2 | 26-3 | 26-3 | 26-4 | 26-5 | 26-5 | 26-6 |
| 325.00 | 30-7 | 30-8 | 30-9 | 30-9 | 30-10 | 30-11 | 31-0 | 31-0 | 31-1 | 31-2 |
| 350.00 | 35-7 | 35-7 | 35-8 | 35-9 | 35-10 | 35-11 | 36-0 | 36-1 | 36-2 | 36-2 |
| 375.00 | 40-11 | 41-0 | 41-1 | 41-2 | 41-3 | 41-4 | 41-5 | 41-6 | 41-7 | 41-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-6 | 6-6 | 6-6 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 |
| 175.00 | 8-10 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 | 8-11 | 8-11 | 9-0 |
| 200.00 | 11-6 | 11-7 | 11-7 | 11-7 | 11-7 | 11-8 | 11-8 | 11-8 | 11-8 | 11-9 |
| 225.00 | 14-7 | 14-8 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 | 14-10 | 14-10 | 14-10 |
| 250.00 | 18-1 | 18-1 | 18-1 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 |
| 275.00 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-1 | 22-2 | 22-2 | 22-3 | 22-3 |
| 300.00 | 26-1 | 26-1 | 26-2 | 26-3 | 26-3 | 26-4 | 26-5 | 26-5 | 26-6 | 26-6 |
| 325.00 | 30-8 | 30-9 | 30-9 | 30-10 | 30-11 | 30-11 | 31-0 | 31-1 | 31-2 | 31-2 |
| 350.00 | 35-7 | 35-8 | 35-9 | 35-10 | 35-11 | 36-0 | 36-1 | 36-1 | 36-2 | 36-3 |
| 375.00 | 41-0 | 41-1 | 41-2 | 41-3 | 41-4 | 41-5 | 41-6 | 41-6 | 41-7 | 41-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 |
| 225.00 | 15-0 | 15-0 | 15-0 | 15-1 | 15-1 | 15-1 | 15-1 | 15-1 | 15-2 | 15-2 |
| 250.00 | 18-7 | 18-7 | 18-7 | 18-7 | 18-8 | 18-8 | 18-8 | 18-8 | 18-9 | 18-9 |
| 275.00 | 22-6 | 22-6 | 22-6 | 22-7 | 22-7 | 22-7 | 22-8 | 22-8 | 22-8 | 22-8 |
| 300.00 | 26-10 | 26-10 | 26-10 | 26-11 | 26-11 | 26-11 | 27-0 | 27-0 | 27-0 | 27-1 |
| 325.00 | 31-6 | 31-7 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 | 31-10 |
| 350.00 | 36-7 | 36-8 | 36-8 | 36-9 | 36-9 | 36-10 | 36-10 | 36-11 | 36-11 | 37-0 |
| 375.00 | 42-1 | 42-2 | 42-3 | 42-3 | 42-4 | 42-4 | 42-5 | 42-5 | 42-6 | 42-6 |
| 400.00 | 48-0 | 48-1 | 48-2 | 48-2 | 48-3 | 48-4 | 48-4 | 48-5 | 48-5 | 48-6 |
| 425.00 | 54-4 | 54-5 | 54-6 | 54-6 | 54-7 | 54-8 | 54-9 | 54-9 | 54-10 | 54-11 |
| 450.00 | 61-1 | 61-2 | 61-3 | 61-4 | 61-4 | 61-5 | 61-6 | 61-7 | 61-8 | 61-8 |
| 475.00 | 68-3 | 68-4 | 68-5 | 68-6 | 68-7 | 68-8 | 68-8 | 68-9 | 68-10 | 68-11 |
| 500.00 | 75-10 | 75-11 | 76-0 | 76-1 | 76-2 | 76-3 | 76-4 | 76-5 | 76-6 | 76-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 | 11-11 | 12-0 |
| 225.00 | 15-0 | 15-0 | 15-1 | 15-1 | 15-1 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 |
| 250.00 | 18-7 | 18-7 | 18-7 | 18-8 | 18-8 | 18-8 | 18-8 | 18-8 | 18-9 | 18-9 |
| 275.00 | 22-6 | 22-6 | 22-7 | 22-7 | 22-7 | 22-7 | 22-8 | 22-8 | 22-8 | 22-9 |
| 300.00 | 26-10 | 26-10 | 26-11 | 26-11 | 26-11 | 27-0 | 27-0 | 27-0 | 27-1 | 27-1 |
| 325.00 | 31-7 | 31-7 | 31-7 | 31-8 | 31-8 | 31-9 | 31-9 | 31-9 | 31-10 | 31-10 |
| 350.00 | 36-8 | 36-8 | 36-9 | 36-9 | 36-10 | 36-10 | 36-11 | 36-11 | 37-0 | 37-0 |
| 375.00 | 42-2 | 42-3 | 42-3 | 42-4 | 42-4 | 42-5 | 42-5 | 42-6 | 42-6 | 42-7 |
| 400.00 | 48-1 | 48-2 | 48-2 | 48-3 | 48-3 | 48-4 | 48-5 | 48-5 | 48-6 | 48-7 |
| 425.00 | 54-5 | 54-6 | 54-6 | 54-7 | 54-8 | 54-8 | 54-9 | 54-10 | 54-11 | 54-11 |
| 450.00 | 61-2 | 61-3 | 61-3 | 61-4 | 61-5 | 61-6 | 61-7 | 61-7 | 61-8 | 61-9 |
| 475.00 | 68-4 | 68-5 | 68-6 | 68-7 | 68-7 | 68-8 | 68-9 | 68-10 | 68-11 | 69-0 |
| 500.00 | 75-11 | 76-0 | 76-1 | 76-2 | 76-3 | 76-4 | 76-5 | 76-6 | 76-7 | 76-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS



OH822.70

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 19-2 | 19-2 | 19-2 | 19-2 | 19-2 | 19-2 | 19-3 | 19-3 | 19-3 | 19-3 |
| 275.00 | 23-2 | 23-3 | 23-3 | 23-3 | 23-3 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 |
| 300.00 | 27-8 | 27-8 | 27-8 | 27-9 | 27-9 | 27-9 | 27-9 | 27-9 | 27-10 | 27-10 |
| 325.00 | 32-6 | 32-7 | 32-7 | 32-7 | 32-7 | 32-8 | 32-8 | 32-8 | 32-8 | 32-9 |
| 350.00 | 37-10 | 37-10 | 37-10 | 37-10 | 37-11 | 37-11 | 37-11 | 38-0 | 38-0 | 38-0 |
| 375.00 | 43-6 | 43-6 | 43-7 | 43-7 | 43-7 | 43-8 | 43-8 | 43-8 | 43-9 | 43-9 |
| 400.00 | 49-7 | 49-8 | 49-8 | 49-8 | 49-9 | 49-9 | 49-10 | 49-10 | 49-10 | 49-11 |
| 425.00 | 56-2 | 56-2 | 56-2 | 56-3 | 56-3 | 56-4 | 56-4 | 56-5 | 56-5 | 56-6 |
| 450.00 | 63-1 | 63-2 | 63-2 | 63-3 | 63-3 | 63-4 | 63-4 | 63-5 | 63-5 | 63-6 |
| 475.00 | 70-6 | 70-7 | 70-7 | 70-8 | 70-8 | 70-9 | 70-9 | 70-10 | 70-11 | 70-11 |
| 500.00 | 78-4 | 78-5 | 78-6 | 78-6 | 78-7 | 78-7 | 78-8 | 78-9 | 78-9 | 78-10 |
| 525.00 | 86-8 | 86-9 | 86-9 | 86-10 | 86-11 | 86-11 | 87-0 | 87-1 | 87-1 | 87-2 |
| 550.00 | 95-5 | 95-6 | 95-7 | 95-7 | 95-8 | 95-9 | 95-10 | 95-10 | 95-11 | 96-0 |
| 575.00 | 104-8 | 104-9 | 104-10 | 104-10 | 104-11 | 105-0 | 105-1 | 105-2 | 105-3 | 105-3 |
| 600.00 | 114-4 | 114-5 | 114-6 | 114-7 | 114-8 | 114-9 | 114-10 | 114-11 | 115-0 | 115-1 |
| 625.00 | 124-7 | 124-8 | 124-9 | 124-10 | 124-11 | 125-0 | 125-1 | 125-2 | 125-3 | 125-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 19-2 | 19-2 | 19-2 | 19-2 | 19-2 | 19-3 | 19-3 | 19-3 | 19-3 | 19-3 |
| 275.00 | 23-3 | 23-3 | 23-3 | 23-3 | 23-3 | 23-3 | 23-4 | 23-4 | 23-4 | 23-4 |
| 300.00 | 27-8 | 27-8 | 27-9 | 27-9 | 27-9 | 27-9 | 27-9 | 27-10 | 27-10 | 27-10 |
| 325.00 | 32-7 | 32-7 | 32-7 | 32-7 | 32-8 | 32-8 | 32-8 | 32-8 | 32-8 | 32-9 |
| 350.00 | 37-10 | 37-10 | 37-10 | 37-11 | 37-11 | 37-11 | 38-0 | 38-0 | 38-0 | 38-0 |
| 375.00 | 43-6 | 43-6 | 43-7 | 43-7 | 43-7 | 43-8 | 43-8 | 43-8 | 43-9 | 43-9 |
| 400.00 | 49-8 | 49-8 | 49-8 | 49-9 | 49-9 | 49-9 | 49-10 | 49-10 | 49-11 | 49-11 |
| 425.00 | 56-2 | 56-2 | 56-3 | 56-3 | 56-4 | 56-4 | 56-5 | 56-5 | 56-5 | 56-6 |
| 450.00 | 63-2 | 63-2 | 63-3 | 63-3 | 63-4 | 63-4 | 63-5 | 63-5 | 63-6 | 63-6 |
| 475.00 | 70-7 | 70-7 | 70-8 | 70-8 | 70-9 | 70-9 | 70-10 | 70-10 | 70-11 | 70-11 |
| 500.00 | 78-5 | 78-5 | 78-6 | 78-7 | 78-7 | 78-8 | 78-9 | 78-9 | 78-10 | 78-10 |
| 525.00 | 86-9 | 86-9 | 86-10 | 86-11 | 86-11 | 87-0 | 87-1 | 87-1 | 87-2 | 87-3 |
| 550.00 | 95-6 | 95-7 | 95-7 | 95-8 | 95-9 | 95-10 | 95-10 | 95-11 | 96-0 | 96-1 |
| 575.00 | 104-9 | 104-9 | 104-10 | 104-11 | 105-0 | 105-1 | 105-2 | 105-2 | 105-3 | 105-4 |
| 600.00 | 114-5 | 114-6 | 114-7 | 114-8 | 114-9 | 114-10 | 114-11 | 115-0 | 115-1 | 115-1 |
| 625.00 | 124-8 | 124-9 | 124-10 | 124-11 | 125-0 | 125-1 | 125-2 | 125-3 | 125-4 | 125-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 1.53 | 1000 | 1.53 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 0.99 | 791 | 0.99 | 798 |
| 30 | 0 | 0 | 0 | 0.629 | 1.07 | 732 | 1.06 | 740 |
| 40 | 0 | 0 | 0 | 0.629 | 1.15 | 681 | 1.14 | 688 |
| 50 | 0 | 0 | 0 | 0.629 | 1.24 | 637 | 1.22 | 643 |
| 60 | 0 | 0 | 0 | 0.629 | 1.32 | 597 | 1.3 | 603 |
| 70 | 0 | 0 | 0 | 0.629 | 1.4 | 563 | 1.39 | 568 |
| 80 | 0 | 0 | 0 | 0.629 | 1.48 | 533 | 1.47 | 537 |
| 90 | 0 | 0 | 0 | 0.629 | 1.55 | 506 | 1.54 | 510 |
| 100 | 0 | 0 | 0 | 0.629 | 1.63 | 483 | 1.62 | 485 |
| 110 | 0 | 0 | 0 | 0.629 | 1.7 | 462 | 1.7 | 464 |
| 120 | 0 | 0 | 0 | 0.629 | 1.78 | 443 | 1.77 | 445 |
| 130 | 0 | 0 | 0 | 0.629 | 1.85 | 426 | 1.83 | 430 |
| 167 | 0 | 0 | 0 | 0.629 | 2.08 | 379 | 2.06 | 383 |
| 212 | 0 | 0 | 0 | 0.629 | 2.33 | 338 | 2.31 | 341 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 6.15 | 1000 | 6.15 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 5.51 | 572 | 5.49 | 575 |
| 30 | 0 | 0 | 0 | 0.629 | 5.61 | 562 | 5.59 | 565 |
| 40 | 0 | 0 | 0 | 0.629 | 5.71 | 553 | 5.69 | 555 |
| 50 | 0 | 0 | 0 | 0.629 | 5.8 | 544 | 5.78 | 546 |
| 60 | 0 | 0 | 0 | 0.629 | 5.9 | 535 | 5.88 | 537 |
| 70 | 0 | 0 | 0 | 0.629 | 5.99 | 527 | 5.97 | 528 |
| 80 | 0 | 0 | 0 | 0.629 | 6.08 | 519 | 6.07 | 520 |
| 90 | 0 | 0 | 0 | 0.629 | 6.17 | 511 | 6.16 | 512 |
| 100 | 0 | 0 | 0 | 0.629 | 6.26 | 504 | 6.25 | 505 |
| 110 | 0 | 0 | 0 | 0.629 | 6.35 | 497 | 6.34 | 498 |
| 120 | 0 | 0 | 0 | 0.629 | 6.44 | 490 | 6.43 | 491 |
| 130 | 0 | 0 | 0 | 0.629 | 6.53 | 484 | 6.52 | 485 |
| 167 | 0 | 0 | 0 | 0.629 | 6.82 | 463 | 6.8 | 465 |
| 212 | 0 | 0 | 0 | 0.629 | 7.16 | 442 | 7.13 | 443 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 13.9 | 1000 | 13.9 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 13.26 | 538 | 13.23 | 539 |
| 30 | 0 | 0 | 0 | 0.629 | 13.35 | 534 | 13.33 | 535 |
| 40 | 0 | 0 | 0 | 0.629 | 13.45 | 530 | 13.43 | 531 |
| 50 | 0 | 0 | 0 | 0.629 | 13.55 | 527 | 13.53 | 527 |
| 60 | 0 | 0 | 0 | 0.629 | 13.64 | 523 | 13.62 | 524 |
| 70 | 0 | 0 | 0 | 0.629 | 13.74 | 519 | 13.72 | 520 |
| 80 | 0 | 0 | 0 | 0.629 | 13.83 | 516 | 13.82 | 516 |
| 90 | 0 | 0 | 0 | 0.629 | 13.93 | 513 | 13.91 | 513 |
| 100 | 0 | 0 | 0 | 0.629 | 14.02 | 509 | 14.01 | 510 |
| 110 | 0 | 0 | 0 | 0.629 | 14.11 | 506 | 14.1 | 506 |
| 120 | 0 | 0 | 0 | 0.629 | 14.2 | 503 | 14.2 | 503 |
| 130 | 0 | 0 | 0 | 0.629 | 14.3 | 499 | 14.29 | 500 |
| 167 | 0 | 0 | 0 | 0.629 | 14.61 | 489 | 14.59 | 490 |
| 212 | 0 | 0 | 0 | 0.629 | 14.98 | 477 | 14.96 | 478 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 24.88 | 1000 | 24.88 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 24.23 | 527 | 24.21 | 527 |
| 30 | 0 | 0 | 0 | 0.629 | 24.33 | 525 | 24.31 | 525 |
| 40 | 0 | 0 | 0 | 0.629 | 24.43 | 523 | 24.41 | 523 |
| 50 | 0 | 0 | 0 | 0.629 | 24.52 | 521 | 24.5 | 521 |
| 60 | 0 | 0 | 0 | 0.629 | 24.62 | 519 | 24.6 | 519 |
| 70 | 0 | 0 | 0 | 0.629 | 24.72 | 517 | 24.7 | 517 |
| 80 | 0 | 0 | 0 | 0.629 | 24.81 | 515 | 24.8 | 515 |
| 90 | 0 | 0 | 0 | 0.629 | 24.91 | 513 | 24.89 | 513 |
| 100 | 0 | 0 | 0 | 0.629 | 25 | 511 | 24.99 | 511 |
| 110 | 0 | 0 | 0 | 0.629 | 25.1 | 509 | 25.09 | 509 |
| 120 | 0 | 0 | 0 | 0.629 | 25.19 | 507 | 25.18 | 507 |
| 130 | 0 | 0 | 0 | 0.629 | 25.28 | 506 | 25.28 | 506 |
| 167 | 0 | 0 | 0 | 0.629 | 25.61 | 499 | 25.59 | 500 |
| 212 | 0 | 0 | 0 | 0.629 | 25.99 | 492 | 25.97 | 493 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 39.23 | 1000 | 39.23 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 38.58 | 522 | 38.56 | 522 |
| 30 | 0 | 0 | 0 | 0.629 | 38.68 | 520 | 38.65 | 521 |
| 40 | 0 | 0 | 0 | 0.629 | 38.77 | 519 | 38.75 | 519 |
| 50 | 0 | 0 | 0 | 0.629 | 38.87 | 518 | 38.85 | 518 |
| 60 | 0 | 0 | 0 | 0.629 | 38.97 | 517 | 38.95 | 517 |
| 70 | 0 | 0 | 0 | 0.629 | 39.06 | 516 | 39.04 | 516 |
| 80 | 0 | 0 | 0 | 0.629 | 39.16 | 514 | 39.14 | 515 |
| 90 | 0 | 0 | 0 | 0.629 | 39.25 | 513 | 39.24 | 513 |
| 100 | 0 | 0 | 0 | 0.629 | 39.35 | 512 | 39.34 | 512 |
| 110 | 0 | 0 | 0 | 0.629 | 39.44 | 511 | 39.43 | 511 |
| 120 | 0 | 0 | 0 | 0.629 | 39.54 | 510 | 39.53 | 510 |
| 130 | 0 | 0 | 0 | 0.629 | 39.63 | 508 | 39.62 | 509 |
| 167 | 0 | 0 | 0 | 0.629 | 39.96 | 504 | 39.94 | 505 |
| 212 | 0 | 0 | 0 | 0.629 | 40.35 | 500 | 40.33 | 500 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 |
| 125.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 150.00 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 | 3-6 | 3-8 | 3-10 |
| 175.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-2 |
| 200.00 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-10 | 6-2 | 6-6 | 6-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 |
| 100.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 |
| 125.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 |
| 150.00 | 2-3 | 2-5 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 |
| 175.00 | 3-1 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 |
| 200.00 | 4-0 | 4-4 | 4-7 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.75

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 |
| 125.00 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 |
| 150.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 |
| 175.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 |
| 200.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 225.00 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 |
| 250.00 | 8-7 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-8 | 9-9 | 9-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-5 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 |
| 150.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 |
| 175.00 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 |
| 200.00 | 5-6 | 5-7 | 5-8 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 225.00 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-1 |
| 250.00 | 8-7 | 8-9 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.76

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-4 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 |
| 175.00 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 |
| 200.00 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 |
| 225.00 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 |
| 250.00 | 9-2 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 |
| 275.00 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 |
| 300.00 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 |
| 325.00 | 15-6 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-3 | 16-4 | 16-5 | 16-7 |
| 350.00 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 | 18-10 | 18-11 | 19-1 | 19-3 |
| 375.00 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 | 21-6 | 21-7 | 21-9 | 21-11 | 22-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 |
| 175.00 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 |
| 200.00 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 |
| 225.00 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 |
| 250.00 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 |
| 275.00 | 11-2 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 |
| 300.00 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 |
| 325.00 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 |
| 350.00 | 18-1 | 18-2 | 18-4 | 18-5 | 18-7 | 18-9 | 18-10 | 19-0 | 19-1 | 19-3 |
| 375.00 | 20-9 | 20-11 | 21-1 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 | 21-11 | 22-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 |
| 225.00 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 250.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 275.00 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 |
| 300.00 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 |
| 325.00 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-6 |
| 350.00 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-0 | 19-1 | 19-2 |
| 375.00 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 |
| 400.00 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 | 24-10 | 24-11 | 25-0 | 25-1 |
| 425.00 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 | 27-11 | 28-0 | 28-1 | 28-3 | 28-4 |
| 450.00 | 30-8 | 30-10 | 30-11 | 31-1 | 31-2 | 31-4 | 31-5 | 31-7 | 31-8 | 31-10 |
| 475.00 | 34-2 | 34-4 | 34-6 | 34-7 | 34-9 | 34-11 | 35-0 | 35-2 | 35-4 | 35-5 |
| 500.00 | 37-11 | 38-1 | 38-3 | 38-5 | 38-7 | 38-8 | 38-10 | 39-0 | 39-2 | 39-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 |
| 225.00 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 |
| 250.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 |
| 275.00 | 11-5 | 11-6 | 11-6 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 |
| 300.00 | 13-7 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 |
| 325.00 | 16-0 | 16-0 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-6 |
| 350.00 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-1 | 19-2 |
| 375.00 | 21-3 | 21-4 | 21-5 | 21-6 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 |
| 400.00 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 |
| 425.00 | 27-5 | 27-6 | 27-7 | 27-8 | 27-10 | 27-11 | 28-0 | 28-2 | 28-3 | 28-4 |
| 450.00 | 30-9 | 30-10 | 30-11 | 31-1 | 31-2 | 31-4 | 31-5 | 31-7 | 31-8 | 31-10 |
| 475.00 | 34-3 | 34-5 | 34-6 | 34-8 | 34-9 | 34-11 | 35-1 | 35-2 | 35-4 | 35-6 |
| 500.00 | 38-0 | 38-1 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-0 | 39-2 | 39-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 |
| 275.00 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 |
| 300.00 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 |
| 325.00 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 |
| 350.00 | 18-10 | 18-10 | 18-11 | 19-0 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 |
| 375.00 | 21-7 | 21-8 | 21-9 | 21-9 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-1 |
| 400.00 | 24-7 | 24-8 | 24-9 | 24-10 | 24-10 | 24-11 | 25-0 | 25-0 | 25-1 | 25-2 |
| 425.00 | 27-10 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 | 28-3 | 28-4 | 28-5 |
| 450.00 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 |
| 475.00 | 34-9 | 34-10 | 34-11 | 35-0 | 35-1 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 |
| 500.00 | 38-7 | 38-8 | 38-9 | 38-10 | 38-11 | 39-1 | 39-2 | 39-3 | 39-4 | 39-5 |
| 525.00 | 42-6 | 42-8 | 42-9 | 42-10 | 43-0 | 43-1 | 43-2 | 43-4 | 43-5 | 43-6 |
| 550.00 | 46-9 | 46-10 | 47-0 | 47-1 | 47-2 | 47-4 | 47-5 | 47-7 | 47-8 | 47-10 |
| 575.00 | 51-1 | 51-3 | 51-5 | 51-6 | 51-8 | 51-9 | 51-11 | 52-0 | 52-2 | 52-3 |
| 600.00 | 55-9 | 55-10 | 56-0 | 56-2 | 56-3 | 56-5 | 56-7 | 56-8 | 56-10 | 57-0 |
| 625.00 | 60-6 | 60-8 | 60-10 | 61-0 | 61-2 | 61-3 | 61-5 | 61-7 | 61-9 | 61-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 |
| 275.00 | 11-7 | 11-8 | 11-8 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 |
| 300.00 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-2 |
| 325.00 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 |
| 350.00 | 18-10 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 |
| 375.00 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-1 |
| 400.00 | 24-7 | 24-8 | 24-9 | 24-10 | 24-10 | 24-11 | 25-0 | 25-1 | 25-1 | 25-2 |
| 425.00 | 27-10 | 27-11 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 | 28-4 | 28-5 |
| 450.00 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 |
| 475.00 | 34-10 | 34-11 | 35-0 | 35-1 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 |
| 500.00 | 38-7 | 38-8 | 38-9 | 38-10 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 | 39-5 |
| 525.00 | 42-7 | 42-8 | 42-9 | 42-11 | 43-0 | 43-1 | 43-2 | 43-4 | 43-5 | 43-6 |
| 550.00 | 46-9 | 46-11 | 47-0 | 47-1 | 47-3 | 47-4 | 47-6 | 47-7 | 47-8 | 47-10 |
| 575.00 | 51-2 | 51-3 | 51-5 | 51-6 | 51-8 | 51-10 | 51-11 | 52-1 | 52-2 | 52-4 |
| 600.00 | 55-9 | 55-11 | 56-0 | 56-2 | 56-4 | 56-5 | 56-7 | 56-9 | 56-10 | 57-0 |
| 625.00 | 60-7 | 60-8 | 60-10 | 61-0 | 61-2 | 61-4 | 61-6 | 61-7 | 61-9 | 61-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 1.02 | 1500 | 1.02 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 0.51 | 1542 | 0.51 | 1542 |
| 30 | 0 | 0 | 0 | 0.629 | 0.55 | 1433 | 0.55 | 1436 |
| 40 | 0 | 0 | 0 | 0.629 | 0.59 | 1325 | 0.59 | 1333 |
| 50 | 0 | 0 | 0 | 0.629 | 0.64 | 1222 | 0.64 | 1233 |
| 60 | 0 | 0 | 0 | 0.629 | 0.7 | 1124 | 0.69 | 1138 |
| 70 | 0 | 0 | 0 | 0.629 | 0.76 | 1033 | 0.75 | 1049 |
| 80 | 0 | 0 | 0 | 0.629 | 0.83 | 950 | 0.81 | 965 |
| 90 | 0 | 0 | 0 | 0.629 | 0.9 | 874 | 0.88 | 889 |
| 100 | 0 | 0 | 0 | 0.629 | 0.98 | 806 | 0.96 | 820 |
| 110 | 0 | 0 | 0 | 0.629 | 1.05 | 746 | 1.04 | 758 |
| 120 | 0 | 0 | 0 | 0.629 | 1.13 | 693 | 1.12 | 704 |
| 130 | 0 | 0 | 0 | 0.629 | 1.22 | 647 | 1.2 | 656 |
| 167 | 0 | 0 | 0 | 0.629 | 1.5 | 524 | 1.47 | 536 |
| 212 | 0 | 0 | 0 | 0.629 | 1.8 | 437 | 1.77 | 446 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 4.09 | 1500 | 4.09 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 3.01 | 1045 | 2.98 | 1055 |
| 30 | 0 | 0 | 0 | 0.629 | 3.14 | 1002 | 3.11 | 1012 |
| 40 | 0 | 0 | 0 | 0.629 | 3.27 | 963 | 3.24 | 972 |
| 50 | 0 | 0 | 0 | 0.629 | 3.4 | 927 | 3.37 | 935 |
| 60 | 0 | 0 | 0 | 0.629 | 3.52 | 893 | 3.49 | 901 |
| 70 | 0 | 0 | 0 | 0.629 | 3.65 | 863 | 3.62 | 870 |
| 80 | 0 | 0 | 0 | 0.629 | 3.78 | 834 | 3.75 | 841 |
| 90 | 0 | 0 | 0 | 0.629 | 3.9 | 808 | 3.87 | 814 |
| 100 | 0 | 0 | 0 | 0.629 | 4.02 | 784 | 3.99 | 789 |
| 110 | 0 | 0 | 0 | 0.629 | 4.14 | 761 | 4.11 | 766 |
| 120 | 0 | 0 | 0 | 0.629 | 4.26 | 740 | 4.23 | 744 |
| 130 | 0 | 0 | 0 | 0.629 | 4.37 | 720 | 4.35 | 724 |
| 167 | 0 | 0 | 0 | 0.629 | 4.79 | 658 | 4.75 | 663 |
| 212 | 0 | 0 | 0 | 0.629 | 5.22 | 604 | 5.18 | 608 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 9.22 | 1500 | 9.22 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 8.03 | 884 | 7.99 | 888 |
| 30 | 0 | 0 | 0 | 0.629 | 8.17 | 868 | 8.13 | 873 |
| 40 | 0 | 0 | 0 | 0.629 | 8.32 | 853 | 8.28 | 857 |
| 50 | 0 | 0 | 0 | 0.629 | 8.46 | 839 | 8.42 | 843 |
| 60 | 0 | 0 | 0 | 0.629 | 8.6 | 826 | 8.56 | 829 |
| 70 | 0 | 0 | 0 | 0.629 | 8.74 | 813 | 8.7 | 816 |
| 80 | 0 | 0 | 0 | 0.629 | 8.88 | 800 | 8.84 | 803 |
| 90 | 0 | 0 | 0 | 0.629 | 9.01 | 788 | 8.98 | 791 |
| 100 | 0 | 0 | 0 | 0.629 | 9.14 | 777 | 9.11 | 779 |
| 110 | 0 | 0 | 0 | 0.629 | 9.28 | 766 | 9.25 | 768 |
| 120 | 0 | 0 | 0 | 0.629 | 9.41 | 755 | 9.38 | 757 |
| 130 | 0 | 0 | 0 | 0.629 | 9.54 | 745 | 9.52 | 747 |
| 167 | 0 | 0 | 0 | 0.629 | 10.01 | 710 | 9.98 | 712 |
| 212 | 0 | 0 | 0 | 0.629 | 10.51 | 676 | 10.47 | 679 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 16.44 | 1500 | 16.44 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 15.23 | 831 | 15.18 | 833 |
| 30 | 0 | 0 | 0 | 0.629 | 15.37 | 823 | 15.33 | 826 |
| 40 | 0 | 0 | 0 | 0.629 | 15.52 | 816 | 15.47 | 818 |
| 50 | 0 | 0 | 0 | 0.629 | 15.66 | 808 | 15.62 | 810 |
| 60 | 0 | 0 | 0 | 0.629 | 15.8 | 801 | 15.76 | 803 |
| 70 | 0 | 0 | 0 | 0.629 | 15.94 | 794 | 15.91 | 796 |
| 80 | 0 | 0 | 0 | 0.629 | 16.09 | 787 | 16.05 | 789 |
| 90 | 0 | 0 | 0 | 0.629 | 16.23 | 780 | 16.19 | 782 |
| 100 | 0 | 0 | 0 | 0.629 | 16.36 | 774 | 16.33 | 775 |
| 110 | 0 | 0 | 0 | 0.629 | 16.5 | 768 | 16.47 | 769 |
| 120 | 0 | 0 | 0 | 0.629 | 16.64 | 761 | 16.61 | 763 |
| 130 | 0 | 0 | 0 | 0.629 | 16.77 | 755 | 16.75 | 756 |
| 167 | 0 | 0 | 0 | 0.629 | 17.27 | 734 | 17.24 | 735 |
| 212 | 0 | 0 | 0 | 0.629 | 17.81 | 712 | 17.77 | 713 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 25.79 | 1500 | 25.79 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 24.57 | 808 | 24.52 | 809 |
| 30 | 0 | 0 | 0 | 0.629 | 24.71 | 803 | 24.67 | 805 |
| 40 | 0 | 0 | 0 | 0.629 | 24.86 | 799 | 24.81 | 800 |
| 50 | 0 | 0 | 0 | 0.629 | 25 | 794 | 24.96 | 795 |
| 60 | 0 | 0 | 0 | 0.629 | 25.14 | 790 | 25.1 | 791 |
| 70 | 0 | 0 | 0 | 0.629 | 25.29 | 785 | 25.25 | 786 |
| 80 | 0 | 0 | 0 | 0.629 | 25.43 | 781 | 25.39 | 782 |
| 90 | 0 | 0 | 0 | 0.629 | 25.57 | 777 | 25.54 | 778 |
| 100 | 0 | 0 | 0 | 0.629 | 25.71 | 773 | 25.68 | 774 |
| 110 | 0 | 0 | 0 | 0.629 | 25.85 | 768 | 25.82 | 769 |
| 120 | 0 | 0 | 0 | 0.629 | 25.99 | 764 | 25.96 | 765 |
| 130 | 0 | 0 | 0 | 0.629 | 26.13 | 760 | 26.11 | 761 |
| 167 | 0 | 0 | 0 | 0.629 | 26.64 | 746 | 26.61 | 747 |
| 212 | 0 | 0 | 0 | 0.629 | 27.2 | 731 | 27.16 | 732 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-0 |
| 125.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 |
| 175.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-1 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 |
| 200.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 |
| 175.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 |
| 200.00 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.83

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 |
| 125.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 |
| 150.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 175.00 | 2-3 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 |
| 200.00 | 3-0 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 |
| 225.00 | 3-9 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 |
| 250.00 | 4-8 | 4-10 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 |
| 125.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 |
| 150.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 |
| 175.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 200.00 | 3-0 | 3-2 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 |
| 225.00 | 3-10 | 4-0 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 |
| 250.00 | 4-8 | 4-11 | 5-1 | 5-4 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.84

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-0 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 |
| 175.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 |
| 200.00 | 3-7 | 3-7 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 |
| 225.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 |
| 250.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 |
| 275.00 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 |
| 300.00 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 |
| 325.00 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-6 | 10-8 | 10-10 |
| 350.00 | 10-11 | 11-1 | 11-3 | 11-6 | 11-8 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 |
| 375.00 | 12-6 | 12-9 | 12-11 | 13-2 | 13-5 | 13-7 | 13-10 | 14-0 | 14-3 | 14-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 |
| 175.00 | 2-9 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 |
| 200.00 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 |
| 225.00 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 |
| 250.00 | 5-7 | 5-8 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 275.00 | 6-9 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 |
| 300.00 | 8-0 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 |
| 325.00 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 |
| 350.00 | 10-11 | 11-2 | 11-4 | 11-6 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-8 |
| 375.00 | 12-7 | 12-9 | 13-0 | 13-3 | 13-5 | 13-8 | 13-11 | 14-1 | 14-4 | 14-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.85

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 |
| 225.00 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 |
| 250.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 |
| 275.00 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 |
| 300.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 |
| 325.00 | 10-0 | 10-1 | 10-2 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 |
| 350.00 | 11-7 | 11-9 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 |
| 375.00 | 13-4 | 13-6 | 13-7 | 13-9 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 |
| 400.00 | 15-2 | 15-4 | 15-6 | 15-7 | 15-9 | 15-11 | 16-1 | 16-2 | 16-4 | 16-6 |
| 425.00 | 17-2 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 | 18-1 | 18-3 | 18-5 | 18-7 |
| 450.00 | 19-3 | 19-5 | 19-7 | 19-9 | 20-0 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 |
| 475.00 | 21-5 | 21-8 | 21-10 | 22-1 | 22-3 | 22-5 | 22-8 | 22-10 | 23-1 | 23-3 |
| 500.00 | 23-9 | 24-0 | 24-2 | 24-5 | 24-8 | 24-11 | 25-1 | 25-4 | 25-7 | 25-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 |
| 225.00 | 4-10 | 4-10 | 4-11 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 |
| 250.00 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 |
| 275.00 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 |
| 300.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-3 |
| 325.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-10 | 10-11 |
| 350.00 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 | 12-8 |
| 375.00 | 13-5 | 13-6 | 13-8 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 |
| 400.00 | 15-3 | 15-4 | 15-6 | 15-8 | 15-10 | 15-11 | 16-1 | 16-3 | 16-4 | 16-6 |
| 425.00 | 17-2 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 |
| 450.00 | 19-3 | 19-6 | 19-8 | 19-10 | 20-0 | 20-2 | 20-4 | 20-7 | 20-9 | 20-11 |
| 475.00 | 21-6 | 21-8 | 21-11 | 22-1 | 22-4 | 22-6 | 22-8 | 22-11 | 23-1 | 23-3 |
| 500.00 | 23-10 | 24-1 | 24-3 | 24-6 | 24-9 | 24-11 | 25-2 | 25-5 | 25-7 | 25-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 |
| 275.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 |
| 300.00 | 8-10 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 |
| 325.00 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-11 |
| 350.00 | 12-0 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 |
| 375.00 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 |
| 400.00 | 15-8 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 |
| 425.00 | 17-8 | 17-10 | 17-11 | 18-0 | 18-1 | 18-3 | 18-4 | 18-5 | 18-6 | 18-8 |
| 450.00 | 19-10 | 20-0 | 20-1 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 | 20-9 | 20-11 |
| 475.00 | 22-1 | 22-3 | 22-5 | 22-6 | 22-8 | 22-9 | 22-11 | 23-0 | 23-2 | 23-4 |
| 500.00 | 24-6 | 24-8 | 24-10 | 24-11 | 25-1 | 25-3 | 25-5 | 25-6 | 25-8 | 25-10 |
| 525.00 | 27-0 | 27-2 | 27-4 | 27-6 | 27-8 | 27-10 | 28-0 | 28-2 | 28-4 | 28-6 |
| 550.00 | 29-8 | 29-10 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 |
| 575.00 | 32-6 | 32-8 | 32-10 | 33-0 | 33-3 | 33-5 | 33-7 | 33-10 | 34-0 | 34-2 |
| 600.00 | 35-4 | 35-7 | 35-9 | 36-0 | 36-2 | 36-5 | 36-7 | 36-10 | 37-0 | 37-3 |
| 625.00 | 38-5 | 38-7 | 38-10 | 39-1 | 39-4 | 39-6 | 39-9 | 40-0 | 40-2 | 40-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 |
| 275.00 | 7-5 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 |
| 300.00 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 |
| 325.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 |
| 350.00 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 |
| 375.00 | 13-10 | 13-11 | 14-0 | 14-1 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 |
| 400.00 | 15-8 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 |
| 425.00 | 17-9 | 17-10 | 17-11 | 18-1 | 18-2 | 18-3 | 18-4 | 18-5 | 18-7 | 18-8 |
| 450.00 | 19-11 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-8 | 20-10 | 20-11 |
| 475.00 | 22-2 | 22-4 | 22-5 | 22-7 | 22-8 | 22-10 | 22-11 | 23-1 | 23-2 | 23-4 |
| 500.00 | 24-7 | 24-9 | 24-10 | 25-0 | 25-2 | 25-3 | 25-5 | 25-7 | 25-9 | 25-10 |
| 525.00 | 27-1 | 27-3 | 27-5 | 27-7 | 27-9 | 27-11 | 28-1 | 28-2 | 28-4 | 28-6 |
| 550.00 | 29-9 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 31-0 | 31-2 | 31-4 |
| 575.00 | 32-6 | 32-9 | 32-11 | 33-1 | 33-3 | 33-6 | 33-8 | 33-10 | 34-1 | 34-3 |
| 600.00 | 35-5 | 35-8 | 35-10 | 36-1 | 36-3 | 36-6 | 36-8 | 36-11 | 37-1 | 37-3 |
| 625.00 | 38-5 | 38-8 | 38-11 | 39-2 | 39-4 | 39-7 | 39-10 | 40-0 | 40-3 | 40-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 0.78 | 1963 | 0.77 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 0.37 | 2145 | 0.36 | 2172 |
| 30 | 0 | 0 | 0 | 0.629 | 0.39 | 2021 | 0.38 | 2059 |
| 40 | 0 | 0 | 0 | 0.629 | 0.41 | 1900 | 0.4 | 1946 |
| 50 | 0 | 0 | 0 | 0.629 | 0.44 | 1779 | 0.43 | 1833 |
| 60 | 0 | 0 | 0 | 0.629 | 0.47 | 1661 | 0.46 | 1721 |
| 70 | 0 | 0 | 0 | 0.629 | 0.51 | 1546 | 0.49 | 1610 |
| 80 | 0 | 0 | 0 | 0.629 | 0.55 | 1434 | 0.52 | 1501 |
| 90 | 0 | 0 | 0 | 0.629 | 0.59 | 1326 | 0.56 | 1394 |
| 100 | 0 | 0 | 0 | 0.629 | 0.64 | 1222 | 0.61 | 1290 |
| 110 | 0 | 0 | 0 | 0.629 | 0.7 | 1125 | 0.66 | 1191 |
| 120 | 0 | 0 | 0 | 0.629 | 0.76 | 1034 | 0.72 | 1097 |
| 130 | 0 | 0 | 0 | 0.629 | 0.83 | 950 | 0.78 | 1008 |
| 167 | 0 | 0 | 0 | 0.629 | 1.1 | 712 | 1.05 | 751 |
| 212 | 0 | 0 | 0 | 0.629 | 1.42 | 553 | 1.36 | 580 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 3.07 | 2000 | 3.07 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 1.83 | 1722 | 1.82 | 1732 |
| 30 | 0 | 0 | 0 | 0.629 | 1.93 | 1633 | 1.91 | 1647 |
| 40 | 0 | 0 | 0 | 0.629 | 2.03 | 1548 | 2.01 | 1565 |
| 50 | 0 | 0 | 0 | 0.629 | 2.14 | 1469 | 2.12 | 1488 |
| 60 | 0 | 0 | 0 | 0.629 | 2.26 | 1394 | 2.23 | 1414 |
| 70 | 0 | 0 | 0 | 0.629 | 2.38 | 1324 | 2.34 | 1344 |
| 80 | 0 | 0 | 0 | 0.629 | 2.5 | 1259 | 2.46 | 1279 |
| 90 | 0 | 0 | 0 | 0.629 | 2.62 | 1199 | 2.58 | 1219 |
| 100 | 0 | 0 | 0 | 0.629 | 2.75 | 1144 | 2.71 | 1162 |
| 110 | 0 | 0 | 0 | 0.629 | 2.88 | 1093 | 2.83 | 1110 |
| 120 | 0 | 0 | 0 | 0.629 | 3.01 | 1046 | 2.96 | 1062 |
| 130 | 0 | 0 | 0 | 0.629 | 3.14 | 1003 | 3.09 | 1018 |
| 167 | 0 | 0 | 0 | 0.629 | 3.61 | 872 | 3.57 | 881 |
| 212 | 0 | 0 | 0 | 0.629 | 4.12 | 764 | 4.07 | 774 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 6.91 | 2000 | 6.91 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 5.18 | 1368 | 5.13 | 1381 |
| 30 | 0 | 0 | 0 | 0.629 | 5.35 | 1325 | 5.3 | 1338 |
| 40 | 0 | 0 | 0 | 0.629 | 5.52 | 1284 | 5.46 | 1297 |
| 50 | 0 | 0 | 0 | 0.629 | 5.69 | 1246 | 5.63 | 1259 |
| 60 | 0 | 0 | 0 | 0.629 | 5.85 | 1211 | 5.8 | 1223 |
| 70 | 0 | 0 | 0 | 0.629 | 6.02 | 1177 | 5.96 | 1189 |
| 80 | 0 | 0 | 0 | 0.629 | 6.19 | 1146 | 6.13 | 1157 |
| 90 | 0 | 0 | 0 | 0.629 | 6.35 | 1116 | 6.29 | 1127 |
| 100 | 0 | 0 | 0 | 0.629 | 6.51 | 1088 | 6.46 | 1098 |
| 110 | 0 | 0 | 0 | 0.629 | 6.68 | 1062 | 6.62 | 1071 |
| 120 | 0 | 0 | 0 | 0.629 | 6.84 | 1037 | 6.78 | 1046 |
| 130 | 0 | 0 | 0 | 0.629 | 6.99 | 1014 | 6.94 | 1022 |
| 167 | 0 | 0 | 0 | 0.629 | 7.56 | 938 | 7.52 | 943 |
| 212 | 0 | 0 | 0 | 0.629 | 8.2 | 866 | 8.14 | 872 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 12.3 | 2000 | 12.3 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 10.41 | 1212 | 10.34 | 1220 |
| 30 | 0 | 0 | 0 | 0.629 | 10.6 | 1190 | 10.53 | 1198 |
| 40 | 0 | 0 | 0 | 0.629 | 10.79 | 1170 | 10.72 | 1177 |
| 50 | 0 | 0 | 0 | 0.629 | 10.97 | 1150 | 10.9 | 1157 |
| 60 | 0 | 0 | 0 | 0.629 | 11.16 | 1131 | 11.08 | 1138 |
| 70 | 0 | 0 | 0 | 0.629 | 11.34 | 1113 | 11.27 | 1120 |
| 80 | 0 | 0 | 0 | 0.629 | 11.52 | 1096 | 11.45 | 1102 |
| 90 | 0 | 0 | 0 | 0.629 | 11.7 | 1079 | 11.63 | 1086 |
| 100 | 0 | 0 | 0 | 0.629 | 11.87 | 1063 | 11.81 | 1069 |
| 110 | 0 | 0 | 0 | 0.629 | 12.05 | 1048 | 11.98 | 1054 |
| 120 | 0 | 0 | 0 | 0.629 | 12.22 | 1033 | 12.16 | 1038 |
| 130 | 0 | 0 | 0 | 0.629 | 12.39 | 1019 | 12.33 | 1024 |
| 167 | 0 | 0 | 0 | 0.629 | 13.01 | 971 | 12.97 | 974 |
| 212 | 0 | 0 | 0 | 0.629 | 13.72 | 921 | 13.66 | 925 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 1.225 | 19.25 | 2000 | 19.25 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 17.31 | 1141 | 17.23 | 1146 |
| 30 | 0 | 0 | 0 | 0.629 | 17.5 | 1128 | 17.43 | 1133 |
| 40 | 0 | 0 | 0 | 0.629 | 17.7 | 1116 | 17.62 | 1121 |
| 50 | 0 | 0 | 0 | 0.629 | 17.89 | 1105 | 17.81 | 1109 |
| 60 | 0 | 0 | 0 | 0.629 | 18.07 | 1093 | 18 | 1098 |
| 70 | 0 | 0 | 0 | 0.629 | 18.26 | 1082 | 18.19 | 1087 |
| 80 | 0 | 0 | 0 | 0.629 | 18.45 | 1071 | 18.37 | 1076 |
| 90 | 0 | 0 | 0 | 0.629 | 18.63 | 1061 | 18.56 | 1065 |
| 100 | 0 | 0 | 0 | 0.629 | 18.81 | 1051 | 18.75 | 1055 |
| 110 | 0 | 0 | 0 | 0.629 | 18.99 | 1041 | 18.93 | 1044 |
| 120 | 0 | 0 | 0 | 0.629 | 19.18 | 1031 | 19.11 | 1035 |
| 130 | 0 | 0 | 0 | 0.629 | 19.35 | 1022 | 19.29 | 1025 |
| 167 | 0 | 0 | 0 | 0.629 | 20 | 989 | 19.96 | 991 |
| 212 | 0 | 0 | 0 | 0.629 | 20.76 | 954 | 20.69 | 956 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 |
| 125.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 150.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 |
| 175.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 200.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-2 | 0-3 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 |
| 100.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 |
| 125.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 |
| 150.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 |
| 175.00 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 |
| 200.00 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-7 | 2-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.91

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-9 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 150.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 |
| 175.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-8 | 2-10 |
| 225.00 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-5 | 3-7 |
| 250.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 125.00 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 150.00 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 |
| 175.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 200.00 | 1-10 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-11 |
| 225.00 | 2-4 | 2-5 | 2-7 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 |
| 250.00 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.92

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 |
| 175.00 | 1-9 | 1-10 | 1-10 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 |
| 200.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 |
| 225.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 |
| 250.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 |
| 275.00 | 4-4 | 4-5 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-7 |
| 300.00 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 |
| 325.00 | 6-0 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 | 7-5 | 7-7 | 7-9 |
| 350.00 | 7-0 | 7-3 | 7-5 | 7-8 | 7-11 | 8-1 | 8-4 | 8-7 | 8-9 | 9-0 |
| 375.00 | 8-0 | 8-3 | 8-6 | 8-10 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 |
| 175.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 |
| 200.00 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 |
| 225.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 250.00 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 |
| 275.00 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-7 |
| 300.00 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 |
| 325.00 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 |
| 350.00 | 7-1 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 |
| 375.00 | 8-1 | 8-4 | 8-7 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.93

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 |
| 225.00 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 |
| 250.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 |
| 275.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 300.00 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 |
| 325.00 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 |
| 350.00 | 7-11 | 8-1 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 |
| 375.00 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-6 |
| 400.00 | 10-4 | 10-6 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-8 | 11-10 | 12-0 |
| 425.00 | 11-8 | 11-11 | 12-1 | 12-4 | 12-6 | 12-9 | 12-11 | 13-2 | 13-4 | 13-6 |
| 450.00 | 13-1 | 13-4 | 13-7 | 13-10 | 14-0 | 14-3 | 14-6 | 14-9 | 14-11 | 15-2 |
| 475.00 | 14-7 | 14-10 | 15-1 | 15-5 | 15-8 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 |
| 500.00 | 16-2 | 16-6 | 16-9 | 17-1 | 17-4 | 17-7 | 17-11 | 18-2 | 18-6 | 18-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 |
| 225.00 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 |
| 250.00 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 |
| 275.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 |
| 300.00 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 |
| 325.00 | 6-10 | 7-0 | 7-1 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 |
| 350.00 | 8-0 | 8-1 | 8-3 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 |
| 375.00 | 9-2 | 9-4 | 9-6 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-5 | 10-7 |
| 400.00 | 10-5 | 10-7 | 10-9 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-1 |
| 425.00 | 11-9 | 12-0 | 12-2 | 12-5 | 12-7 | 12-10 | 13-0 | 13-2 | 13-5 | 13-7 |
| 450.00 | 13-2 | 13-5 | 13-8 | 13-11 | 14-1 | 14-4 | 14-7 | 14-10 | 15-0 | 15-3 |
| 475.00 | 14-8 | 14-11 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 |
| 500.00 | 16-3 | 16-7 | 16-10 | 17-2 | 17-5 | 17-9 | 18-0 | 18-3 | 18-7 | 18-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 |
| 300.00 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 325.00 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 350.00 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 |
| 375.00 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 | 10-3 | 10-4 | 10-5 | 10-6 | 10-8 |
| 400.00 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 |
| 425.00 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-6 | 13-8 |
| 450.00 | 13-11 | 14-1 | 14-3 | 14-5 | 14-7 | 14-9 | 14-11 | 15-0 | 15-2 | 15-4 |
| 475.00 | 15-7 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 |
| 500.00 | 17-3 | 17-5 | 17-7 | 17-10 | 18-0 | 18-2 | 18-4 | 18-7 | 18-9 | 18-11 |
| 525.00 | 19-0 | 19-3 | 19-5 | 19-8 | 19-10 | 20-1 | 20-3 | 20-6 | 20-8 | 20-10 |
| 550.00 | 20-10 | 21-1 | 21-4 | 21-7 | 21-9 | 22-0 | 22-3 | 22-6 | 22-8 | 22-11 |
| 575.00 | 22-10 | 23-1 | 23-4 | 23-7 | 23-10 | 24-1 | 24-4 | 24-7 | 24-10 | 25-1 |
| 600.00 | 24-10 | 25-1 | 25-5 | 25-8 | 25-11 | 26-3 | 26-6 | 26-9 | 27-0 | 27-3 |
| 625.00 | 26-11 | 27-3 | 27-7 | 27-10 | 28-2 | 28-5 | 28-9 | 29-0 | 29-4 | 29-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 |
| 275.00 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 |
| 300.00 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 |
| 325.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 350.00 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 |
| 375.00 | 9-9 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-4 | 10-6 | 10-7 | 10-8 |
| 400.00 | 11-1 | 11-2 | 11-4 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-2 |
| 425.00 | 12-6 | 12-8 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 |
| 450.00 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 |
| 475.00 | 15-7 | 15-10 | 16-0 | 16-2 | 16-4 | 16-6 | 16-8 | 16-10 | 17-0 | 17-2 |
| 500.00 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 | 18-5 | 18-8 | 18-10 | 19-0 |
| 525.00 | 19-1 | 19-4 | 19-6 | 19-9 | 19-11 | 20-2 | 20-4 | 20-7 | 20-9 | 20-11 |
| 550.00 | 20-11 | 21-2 | 21-5 | 21-8 | 21-11 | 22-1 | 22-4 | 22-7 | 22-9 | 23-0 |
| 575.00 | 22-11 | 23-2 | 23-5 | 23-8 | 23-11 | 24-2 | 24-5 | 24-8 | 24-11 | 25-2 |
| 600.00 | 24-11 | 25-3 | 25-6 | 25-9 | 26-1 | 26-4 | 26-7 | 26-10 | 27-1 | 27-5 |
| 625.00 | 27-1 | 27-5 | 27-8 | 28-0 | 28-3 | 28-7 | 28-10 | 29-2 | 29-5 | 29-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 1.53 | 1000 | 1.53 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 1.07 | 732 | 1.06 | 740 |
| 30 | 0 | 0 | 0 | 0.629 | 1.32 | 597 | 1.3 | 604 |
| 40 | 0 | 0 | 0 | 0.629 | 1.4 | 563 | 1.38 | 569 |
| 50 | 0 | 0 | 0 | 0.629 | 1.48 | 533 | 1.46 | 538 |
| 60 | 0 | 0 | 0 | 0.629 | 1.55 | 506 | 1.54 | 511 |
| 70 | 0 | 0 | 0 | 0.629 | 1.63 | 483 | 1.62 | 487 |
| 80 | 0 | 0 | 0 | 0.629 | 1.7 | 462 | 1.69 | 465 |
| 90 | 0 | 0 | 0 | 0.629 | 1.78 | 443 | 1.77 | 445 |
| 100 | 0 | 0 | 0 | 0.629 | 1.85 | 426 | 1.84 | 428 |
| 110 | 0 | 0 | 0 | 0.629 | 1.92 | 411 | 1.91 | 412 |
| 120 | 0 | 0 | 0 | 0.629 | 1.99 | 397 | 1.97 | 399 |
| 130 | 0 | 0 | 0 | 0.629 | 2.05 | 384 | 2.03 | 387 |
| 167 | 0 | 0 | 0 | 0.629 | 2.26 | 348 | 2.24 | 351 |
| 212 | 0 | 0 | 0 | 0.629 | 2.5 | 315 | 2.48 | 318 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 6.15 | 1000 | 6.15 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 5.61 | 562 | 5.59 | 565 |
| 30 | 0 | 0 | 0 | 0.629 | 5.9 | 535 | 5.88 | 537 |
| 40 | 0 | 0 | 0 | 0.629 | 5.99 | 527 | 5.97 | 529 |
| 50 | 0 | 0 | 0 | 0.629 | 6.08 | 519 | 6.06 | 520 |
| 60 | 0 | 0 | 0 | 0.629 | 6.17 | 511 | 6.16 | 513 |
| 70 | 0 | 0 | 0 | 0.629 | 6.26 | 504 | 6.25 | 505 |
| 80 | 0 | 0 | 0 | 0.629 | 6.35 | 497 | 6.34 | 498 |
| 90 | 0 | 0 | 0 | 0.629 | 6.44 | 490 | 6.43 | 491 |
| 100 | 0 | 0 | 0 | 0.629 | 6.53 | 484 | 6.52 | 485 |
| 110 | 0 | 0 | 0 | 0.629 | 6.61 | 478 | 6.61 | 478 |
| 120 | 0 | 0 | 0 | 0.629 | 6.7 | 472 | 6.69 | 472 |
| 130 | 0 | 0 | 0 | 0.629 | 6.78 | 466 | 6.77 | 467 |
| 167 | 0 | 0 | 0 | 0.629 | 7.07 | 447 | 7.05 | 449 |
| 212 | 0 | 0 | 0 | 0.629 | 7.39 | 428 | 7.37 | 429 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 13.9 | 1000 | 13.9 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 13.35 | 534 | 13.33 | 535 |
| 30 | 0 | 0 | 0 | 0.629 | 13.64 | 523 | 13.62 | 524 |
| 40 | 0 | 0 | 0 | 0.629 | 13.74 | 519 | 13.72 | 520 |
| 50 | 0 | 0 | 0 | 0.629 | 13.83 | 516 | 13.81 | 517 |
| 60 | 0 | 0 | 0 | 0.629 | 13.93 | 513 | 13.91 | 513 |
| 70 | 0 | 0 | 0 | 0.629 | 14.02 | 509 | 14 | 510 |
| 80 | 0 | 0 | 0 | 0.629 | 14.11 | 506 | 14.1 | 506 |
| 90 | 0 | 0 | 0 | 0.629 | 14.2 | 503 | 14.19 | 503 |
| 100 | 0 | 0 | 0 | 0.629 | 14.3 | 499 | 14.29 | 500 |
| 110 | 0 | 0 | 0 | 0.629 | 14.39 | 496 | 14.38 | 497 |
| 120 | 0 | 0 | 0 | 0.629 | 14.48 | 493 | 14.47 | 493 |
| 130 | 0 | 0 | 0 | 0.629 | 14.57 | 490 | 14.56 | 491 |
| 167 | 0 | 0 | 0 | 0.629 | 14.88 | 480 | 14.86 | 481 |
| 212 | 0 | 0 | 0 | 0.629 | 15.24 | 469 | 15.22 | 470 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 24.88 | 1000 | 24.88 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 24.33 | 525 | 24.31 | 525 |
| 30 | 0 | 0 | 0 | 0.629 | 24.62 | 519 | 24.6 | 519 |
| 40 | 0 | 0 | 0 | 0.629 | 24.72 | 517 | 24.7 | 517 |
| 50 | 0 | 0 | 0 | 0.629 | 24.81 | 515 | 24.79 | 515 |
| 60 | 0 | 0 | 0 | 0.629 | 24.91 | 513 | 24.89 | 513 |
| 70 | 0 | 0 | 0 | 0.629 | 25 | 511 | 24.99 | 511 |
| 80 | 0 | 0 | 0 | 0.629 | 25.1 | 509 | 25.08 | 509 |
| 90 | 0 | 0 | 0 | 0.629 | 25.19 | 507 | 25.18 | 508 |
| 100 | 0 | 0 | 0 | 0.629 | 25.28 | 506 | 25.27 | 506 |
| 110 | 0 | 0 | 0 | 0.629 | 25.38 | 504 | 25.37 | 504 |
| 120 | 0 | 0 | 0 | 0.629 | 25.47 | 502 | 25.47 | 502 |
| 130 | 0 | 0 | 0 | 0.629 | 25.56 | 500 | 25.56 | 500 |
| 167 | 0 | 0 | 0 | 0.629 | 25.89 | 494 | 25.87 | 495 |
| 212 | 0 | 0 | 0 | 0.629 | 26.26 | 487 | 26.24 | 488 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 39.23 | 1000 | 39.23 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 38.68 | 520 | 38.65 | 521 |
| 30 | 0 | 0 | 0 | 0.629 | 38.97 | 517 | 38.94 | 517 |
| 40 | 0 | 0 | 0 | 0.629 | 39.06 | 516 | 39.04 | 516 |
| 50 | 0 | 0 | 0 | 0.629 | 39.16 | 514 | 39.14 | 515 |
| 60 | 0 | 0 | 0 | 0.629 | 39.25 | 513 | 39.24 | 513 |
| 70 | 0 | 0 | 0 | 0.629 | 39.35 | 512 | 39.33 | 512 |
| 80 | 0 | 0 | 0 | 0.629 | 39.44 | 511 | 39.43 | 511 |
| 90 | 0 | 0 | 0 | 0.629 | 39.54 | 510 | 39.53 | 510 |
| 100 | 0 | 0 | 0 | 0.629 | 39.63 | 508 | 39.62 | 509 |
| 110 | 0 | 0 | 0 | 0.629 | 39.73 | 507 | 39.72 | 507 |
| 120 | 0 | 0 | 0 | 0.629 | 39.82 | 506 | 39.82 | 506 |
| 130 | 0 | 0 | 0 | 0.629 | 39.91 | 505 | 39.91 | 505 |
| 167 | 0 | 0 | 0 | 0.629 | 40.24 | 501 | 40.22 | 501 |
| 212 | 0 | 0 | 0 | 0.629 | 40.63 | 497 | 40.61 | 497 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 |
| 150.00 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 |
| 175.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 | 5-5 | 5-8 | 5-10 |
| 200.00 | 4-11 | 5-3 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 | 7-1 | 7-4 | 7-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 |
| 100.00 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-11 | 2-1 | 2-2 | 2-4 | 2-5 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 |
| 150.00 | 2-9 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 | 4-4 |
| 175.00 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 5-0 | 5-3 | 5-5 | 5-8 | 5-11 |
| 200.00 | 4-11 | 5-3 | 5-7 | 5-11 | 6-3 | 6-6 | 6-10 | 7-1 | 7-5 | 7-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.99

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-6 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 |
| 125.00 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 150.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 |
| 175.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 |
| 200.00 | 5-9 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 225.00 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 |
| 250.00 | 9-0 | 9-2 | 9-4 | 9-6 | 9-8 | 9-9 | 9-11 | 10-1 | 10-2 | 10-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 |
| 125.00 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 |
| 150.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 |
| 175.00 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 |
| 200.00 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 |
| 225.00 | 7-4 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 |
| 250.00 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 |
| 175.00 | 4-7 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 |
| 200.00 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 |
| 225.00 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 |
| 250.00 | 9-5 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 |
| 275.00 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 300.00 | 13-6 | 13-7 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-5 |
| 325.00 | 15-11 | 16-0 | 16-1 | 16-3 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 | 16-11 |
| 350.00 | 18-5 | 18-7 | 18-8 | 18-10 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 |
| 375.00 | 21-2 | 21-4 | 21-6 | 21-7 | 21-9 | 21-11 | 22-1 | 22-3 | 22-4 | 22-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-5 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 |
| 175.00 | 4-7 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 |
| 200.00 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 |
| 225.00 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 |
| 250.00 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 |
| 275.00 | 11-5 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 |
| 300.00 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-4 | 14-5 |
| 325.00 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 | 16-9 | 16-11 |
| 350.00 | 18-5 | 18-7 | 18-9 | 18-10 | 19-0 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 |
| 375.00 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 | 21-11 | 22-1 | 22-3 | 22-5 | 22-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.101

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 |
| 225.00 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 |
| 250.00 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 |
| 275.00 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 |
| 300.00 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 |
| 325.00 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-6 | 16-7 | 16-8 | 16-9 |
| 350.00 | 18-9 | 18-10 | 18-11 | 19-0 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 |
| 375.00 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 |
| 400.00 | 24-6 | 24-7 | 24-8 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 |
| 425.00 | 27-8 | 27-9 | 27-11 | 28-0 | 28-1 | 28-3 | 28-4 | 28-5 | 28-7 | 28-8 |
| 450.00 | 31-1 | 31-2 | 31-4 | 31-5 | 31-7 | 31-8 | 31-9 | 31-11 | 32-0 | 32-2 |
| 475.00 | 34-7 | 34-9 | 34-11 | 35-0 | 35-2 | 35-4 | 35-5 | 35-7 | 35-9 | 35-10 |
| 500.00 | 38-5 | 38-7 | 38-8 | 38-10 | 39-0 | 39-2 | 39-4 | 39-5 | 39-7 | 39-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 |
| 225.00 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 |
| 250.00 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 |
| 275.00 | 11-7 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 12-0 |
| 300.00 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 |
| 325.00 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-6 | 16-7 | 16-8 | 16-9 |
| 350.00 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 |
| 375.00 | 21-6 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 |
| 400.00 | 24-6 | 24-7 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 | 25-3 | 25-5 |
| 425.00 | 27-8 | 27-10 | 27-11 | 28-0 | 28-2 | 28-3 | 28-4 | 28-5 | 28-7 | 28-8 |
| 450.00 | 31-1 | 31-2 | 31-4 | 31-5 | 31-7 | 31-8 | 31-10 | 31-11 | 32-1 | 32-2 |
| 475.00 | 34-8 | 34-9 | 34-11 | 35-1 | 35-2 | 35-4 | 35-6 | 35-7 | 35-9 | 35-10 |
| 500.00 | 38-5 | 38-7 | 38-9 | 38-11 | 39-0 | 39-2 | 39-4 | 39-6 | 39-7 | 39-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 |
| 275.00 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 |
| 300.00 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 |
| 325.00 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 |
| 350.00 | 18-11 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 |
| 375.00 | 21-9 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-1 | 22-2 | 22-2 | 22-3 |
| 400.00 | 24-9 | 24-10 | 24-11 | 25-0 | 25-0 | 25-1 | 25-2 | 25-3 | 25-3 | 25-4 |
| 425.00 | 28-0 | 28-1 | 28-2 | 28-3 | 28-3 | 28-4 | 28-5 | 28-6 | 28-7 | 28-8 |
| 450.00 | 31-5 | 31-6 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 | 32-0 | 32-1 | 32-1 |
| 475.00 | 35-0 | 35-1 | 35-2 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 | 35-10 |
| 500.00 | 38-10 | 38-11 | 39-0 | 39-2 | 39-3 | 39-4 | 39-5 | 39-6 | 39-7 | 39-9 |
| 525.00 | 42-10 | 43-0 | 43-1 | 43-2 | 43-4 | 43-5 | 43-6 | 43-7 | 43-9 | 43-10 |
| 550.00 | 47-1 | 47-2 | 47-4 | 47-5 | 47-7 | 47-8 | 47-10 | 47-11 | 48-0 | 48-2 |
| 575.00 | 51-6 | 51-8 | 51-9 | 51-11 | 52-0 | 52-2 | 52-3 | 52-5 | 52-6 | 52-8 |
| 600.00 | 56-2 | 56-3 | 56-5 | 56-7 | 56-8 | 56-10 | 57-0 | 57-1 | 57-3 | 57-5 |
| 625.00 | 61-0 | 61-1 | 61-3 | 61-5 | 61-7 | 61-9 | 61-11 | 62-1 | 62-2 | 62-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 |
| 275.00 | 11-8 | 11-9 | 11-9 | 11-9 | 11-10 | 11-10 | 11-10 | 11-11 | 11-11 | 11-11 |
| 300.00 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-2 | 14-3 |
| 325.00 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 |
| 350.00 | 19-0 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-4 | 19-4 | 19-5 |
| 375.00 | 21-9 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-1 | 22-2 | 22-3 | 22-3 |
| 400.00 | 24-10 | 24-10 | 24-11 | 25-0 | 25-1 | 25-1 | 25-2 | 25-3 | 25-3 | 25-4 |
| 425.00 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 | 28-4 | 28-5 | 28-6 | 28-7 | 28-8 |
| 450.00 | 31-5 | 31-6 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 |
| 475.00 | 35-1 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 | 35-10 |
| 500.00 | 38-10 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 | 39-5 | 39-6 | 39-8 | 39-9 |
| 525.00 | 42-11 | 43-0 | 43-1 | 43-2 | 43-4 | 43-5 | 43-6 | 43-8 | 43-9 | 43-10 |
| 550.00 | 47-1 | 47-3 | 47-4 | 47-6 | 47-7 | 47-8 | 47-10 | 47-11 | 48-0 | 48-2 |
| 575.00 | 51-6 | 51-8 | 51-10 | 51-11 | 52-1 | 52-2 | 52-4 | 52-5 | 52-7 | 52-8 |
| 600.00 | 56-2 | 56-4 | 56-5 | 56-7 | 56-9 | 56-10 | 57-0 | 57-2 | 57-3 | 57-5 |
| 625.00 | 61-0 | 61-2 | 61-4 | 61-6 | 61-7 | 61-9 | 61-11 | 62-1 | 62-3 | 62-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 1.02 | 1500 | 1.02 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 0.55 | 1433 | 0.55 | 1435 |
| 30 | 0 | 0 | 0 | 0.629 | 0.7 | 1124 | 0.69 | 1141 |
| 40 | 0 | 0 | 0 | 0.629 | 0.76 | 1033 | 0.75 | 1052 |
| 50 | 0 | 0 | 0 | 0.629 | 0.83 | 950 | 0.81 | 969 |
| 60 | 0 | 0 | 0 | 0.629 | 0.9 | 874 | 0.88 | 893 |
| 70 | 0 | 0 | 0 | 0.629 | 0.98 | 806 | 0.95 | 824 |
| 80 | 0 | 0 | 0 | 0.629 | 1.05 | 746 | 1.03 | 762 |
| 90 | 0 | 0 | 0 | 0.629 | 1.13 | 693 | 1.11 | 707 |
| 100 | 0 | 0 | 0 | 0.629 | 1.22 | 647 | 1.19 | 659 |
| 110 | 0 | 0 | 0 | 0.629 | 1.3 | 606 | 1.28 | 617 |
| 120 | 0 | 0 | 0 | 0.629 | 1.38 | 571 | 1.36 | 580 |
| 130 | 0 | 0 | 0 | 0.629 | 1.46 | 540 | 1.44 | 547 |
| 167 | 0 | 0 | 0 | 0.629 | 1.72 | 457 | 1.69 | 467 |
| 212 | 0 | 0 | 0 | 0.629 | 2 | 393 | 1.97 | 400 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 4.09 | 1500 | 4.09 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 3.14 | 1002 | 3.11 | 1012 |
| 30 | 0 | 0 | 0 | 0.629 | 3.52 | 893 | 3.49 | 902 |
| 40 | 0 | 0 | 0 | 0.629 | 3.65 | 863 | 3.61 | 871 |
| 50 | 0 | 0 | 0 | 0.629 | 3.78 | 834 | 3.74 | 842 |
| 60 | 0 | 0 | 0 | 0.629 | 3.9 | 808 | 3.86 | 815 |
| 70 | 0 | 0 | 0 | 0.629 | 4.02 | 784 | 3.99 | 790 |
| 80 | 0 | 0 | 0 | 0.629 | 4.14 | 761 | 4.11 | 767 |
| 90 | 0 | 0 | 0 | 0.629 | 4.26 | 740 | 4.23 | 745 |
| 100 | 0 | 0 | 0 | 0.629 | 4.37 | 720 | 4.35 | 725 |
| 110 | 0 | 0 | 0 | 0.629 | 4.49 | 702 | 4.46 | 706 |
| 120 | 0 | 0 | 0 | 0.629 | 4.6 | 685 | 4.58 | 689 |
| 130 | 0 | 0 | 0 | 0.629 | 4.71 | 669 | 4.69 | 672 |
| 167 | 0 | 0 | 0 | 0.629 | 5.11 | 618 | 5.07 | 622 |
| 212 | 0 | 0 | 0 | 0.629 | 5.52 | 571 | 5.48 | 576 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 9.22 | 1500 | 9.22 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 8.17 | 868 | 8.13 | 873 |
| 30 | 0 | 0 | 0 | 0.629 | 8.6 | 826 | 8.56 | 830 |
| 40 | 0 | 0 | 0 | 0.629 | 8.74 | 813 | 8.7 | 817 |
| 50 | 0 | 0 | 0 | 0.629 | 8.88 | 800 | 8.83 | 804 |
| 60 | 0 | 0 | 0 | 0.629 | 9.01 | 788 | 8.97 | 792 |
| 70 | 0 | 0 | 0 | 0.629 | 9.14 | 777 | 9.11 | 780 |
| 80 | 0 | 0 | 0 | 0.629 | 9.28 | 766 | 9.24 | 769 |
| 90 | 0 | 0 | 0 | 0.629 | 9.41 | 755 | 9.37 | 758 |
| 100 | 0 | 0 | 0 | 0.629 | 9.54 | 745 | 9.51 | 747 |
| 110 | 0 | 0 | 0 | 0.629 | 9.67 | 735 | 9.64 | 737 |
| 120 | 0 | 0 | 0 | 0.629 | 9.79 | 726 | 9.77 | 728 |
| 130 | 0 | 0 | 0 | 0.629 | 9.92 | 716 | 9.9 | 718 |
| 167 | 0 | 0 | 0 | 0.629 | 10.38 | 685 | 10.34 | 688 |
| 212 | 0 | 0 | 0 | 0.629 | 10.86 | 655 | 10.82 | 657 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 16.44 | 1500 | 16.44 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 15.37 | 823 | 15.32 | 826 |
| 30 | 0 | 0 | 0 | 0.629 | 15.8 | 801 | 15.76 | 803 |
| 40 | 0 | 0 | 0 | 0.629 | 15.94 | 794 | 15.9 | 796 |
| 50 | 0 | 0 | 0 | 0.629 | 16.09 | 787 | 16.04 | 789 |
| 60 | 0 | 0 | 0 | 0.629 | 16.23 | 780 | 16.18 | 782 |
| 70 | 0 | 0 | 0 | 0.629 | 16.36 | 774 | 16.32 | 776 |
| 80 | 0 | 0 | 0 | 0.629 | 16.5 | 768 | 16.46 | 769 |
| 90 | 0 | 0 | 0 | 0.629 | 16.64 | 761 | 16.6 | 763 |
| 100 | 0 | 0 | 0 | 0.629 | 16.77 | 755 | 16.74 | 757 |
| 110 | 0 | 0 | 0 | 0.629 | 16.91 | 749 | 16.88 | 751 |
| 120 | 0 | 0 | 0 | 0.629 | 17.04 | 744 | 17.01 | 745 |
| 130 | 0 | 0 | 0 | 0.629 | 17.18 | 738 | 17.15 | 739 |
| 167 | 0 | 0 | 0 | 0.629 | 17.66 | 718 | 17.63 | 719 |
| 212 | 0 | 0 | 0 | 0.629 | 18.19 | 697 | 18.15 | 699 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 25.79 | 1500 | 25.79 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 24.71 | 803 | 24.66 | 805 |
| 30 | 0 | 0 | 0 | 0.629 | 25.14 | 790 | 25.1 | 791 |
| 40 | 0 | 0 | 0 | 0.629 | 25.29 | 785 | 25.24 | 787 |
| 50 | 0 | 0 | 0 | 0.629 | 25.43 | 781 | 25.38 | 782 |
| 60 | 0 | 0 | 0 | 0.629 | 25.57 | 777 | 25.53 | 778 |
| 70 | 0 | 0 | 0 | 0.629 | 25.71 | 773 | 25.67 | 774 |
| 80 | 0 | 0 | 0 | 0.629 | 25.85 | 768 | 25.81 | 770 |
| 90 | 0 | 0 | 0 | 0.629 | 25.99 | 764 | 25.95 | 766 |
| 100 | 0 | 0 | 0 | 0.629 | 26.13 | 760 | 26.1 | 761 |
| 110 | 0 | 0 | 0 | 0.629 | 26.27 | 757 | 26.24 | 757 |
| 120 | 0 | 0 | 0 | 0.629 | 26.41 | 753 | 26.38 | 754 |
| 130 | 0 | 0 | 0 | 0.629 | 26.54 | 749 | 26.52 | 750 |
| 167 | 0 | 0 | 0 | 0.629 | 27.04 | 735 | 27.01 | 736 |
| 212 | 0 | 0 | 0 | 0.629 | 27.6 | 721 | 27.56 | 722 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 |
| 150.00 | 1-5 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 |
| 175.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 |
| 200.00 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 |
| 100.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 125.00 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 |
| 150.00 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 |
| 175.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 |
| 200.00 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-7 | 4-10 | 5-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.107

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 |
| 125.00 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 |
| 150.00 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 |
| 175.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 200.00 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 |
| 225.00 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-8 |
| 250.00 | 5-3 | 5-5 | 5-8 | 5-10 | 6-0 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 |
| 125.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 |
| 150.00 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-6 |
| 175.00 | 2-7 | 2-8 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 |
| 200.00 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 |
| 225.00 | 4-4 | 4-6 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 |
| 250.00 | 5-4 | 5-6 | 5-8 | 5-11 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 | 7-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 |
| 175.00 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 200.00 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 |
| 225.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 |
| 250.00 | 5-10 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 275.00 | 7-1 | 7-2 | 7-4 | 7-5 | 7-6 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 |
| 300.00 | 8-5 | 8-7 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-4 | 9-6 | 9-8 |
| 325.00 | 9-11 | 10-1 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 |
| 350.00 | 11-6 | 11-8 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-1 |
| 375.00 | 13-2 | 13-5 | 13-7 | 13-10 | 14-0 | 14-3 | 14-5 | 14-8 | 14-10 | 15-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 175.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 200.00 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-4 |
| 225.00 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 |
| 250.00 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-9 |
| 275.00 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-1 |
| 300.00 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 |
| 325.00 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 | 11-2 | 11-4 |
| 350.00 | 11-6 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-8 | 12-10 | 13-0 | 13-2 |
| 375.00 | 13-3 | 13-5 | 13-8 | 13-11 | 14-1 | 14-4 | 14-6 | 14-9 | 14-11 | 15-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 |
| 225.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 |
| 250.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 |
| 275.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 300.00 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 325.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-1 | 11-2 |
| 350.00 | 11-11 | 12-1 | 12-2 | 12-3 | 12-5 | 12-6 | 12-7 | 12-8 | 12-10 | 12-11 |
| 375.00 | 13-9 | 13-10 | 14-0 | 14-1 | 14-3 | 14-4 | 14-6 | 14-7 | 14-9 | 14-10 |
| 400.00 | 15-7 | 15-9 | 15-11 | 16-1 | 16-2 | 16-4 | 16-6 | 16-7 | 16-9 | 16-11 |
| 425.00 | 17-8 | 17-10 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 | 19-1 |
| 450.00 | 19-9 | 19-11 | 20-2 | 20-4 | 20-6 | 20-8 | 20-10 | 21-0 | 21-2 | 21-4 |
| 475.00 | 22-0 | 22-3 | 22-5 | 22-8 | 22-10 | 23-0 | 23-3 | 23-5 | 23-8 | 23-10 |
| 500.00 | 24-5 | 24-8 | 24-10 | 25-1 | 25-4 | 25-6 | 25-9 | 26-0 | 26-2 | 26-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 |
| 225.00 | 4-11 | 5-0 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 |
| 250.00 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 |
| 275.00 | 7-5 | 7-6 | 7-6 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-11 | 8-0 |
| 300.00 | 8-10 | 8-11 | 9-0 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 325.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 350.00 | 12-0 | 12-1 | 12-2 | 12-4 | 12-5 | 12-6 | 12-8 | 12-9 | 12-10 | 12-11 |
| 375.00 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 | 14-9 | 14-10 |
| 400.00 | 15-8 | 15-10 | 15-11 | 16-1 | 16-3 | 16-4 | 16-6 | 16-8 | 16-9 | 16-11 |
| 425.00 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-9 | 18-11 | 19-1 |
| 450.00 | 19-10 | 20-0 | 20-2 | 20-4 | 20-7 | 20-9 | 20-11 | 21-1 | 21-3 | 21-5 |
| 475.00 | 22-1 | 22-4 | 22-6 | 22-8 | 22-11 | 23-1 | 23-3 | 23-6 | 23-8 | 23-10 |
| 500.00 | 24-6 | 24-9 | 24-11 | 25-2 | 25-5 | 25-7 | 25-10 | 26-0 | 26-3 | 26-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.110

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 | 6-6 |
| 275.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 |
| 300.00 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 |
| 325.00 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 | 10-10 | 10-11 | 10-11 | 11-0 | 11-1 |
| 350.00 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-8 | 12-9 | 12-10 |
| 375.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 |
| 400.00 | 15-11 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 |
| 425.00 | 18-0 | 18-1 | 18-3 | 18-4 | 18-5 | 18-6 | 18-8 | 18-9 | 18-10 | 18-11 |
| 450.00 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 | 20-9 | 20-11 | 21-0 | 21-1 | 21-3 |
| 475.00 | 22-6 | 22-8 | 22-9 | 22-11 | 23-0 | 23-2 | 23-3 | 23-5 | 23-7 | 23-8 |
| 500.00 | 24-11 | 25-1 | 25-3 | 25-5 | 25-6 | 25-8 | 25-10 | 25-11 | 26-1 | 26-3 |
| 525.00 | 27-6 | 27-8 | 27-10 | 28-0 | 28-2 | 28-4 | 28-6 | 28-8 | 28-9 | 28-11 |
| 550.00 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 | 31-5 | 31-7 | 31-9 |
| 575.00 | 33-0 | 33-3 | 33-5 | 33-7 | 33-10 | 34-0 | 34-2 | 34-4 | 34-7 | 34-9 |
| 600.00 | 36-0 | 36-2 | 36-5 | 36-7 | 36-10 | 37-0 | 37-3 | 37-5 | 37-8 | 37-10 |
| 625.00 | 39-1 | 39-3 | 39-6 | 39-9 | 40-0 | 40-2 | 40-5 | 40-8 | 40-10 | 41-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 | 6-6 | 6-7 |
| 275.00 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 300.00 | 9-0 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 | 9-5 |
| 325.00 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-11 | 11-0 | 11-0 | 11-1 |
| 350.00 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-9 | 12-10 |
| 375.00 | 14-1 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 |
| 400.00 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 |
| 425.00 | 18-1 | 18-2 | 18-3 | 18-4 | 18-5 | 18-7 | 18-8 | 18-9 | 18-10 | 19-0 |
| 450.00 | 20-3 | 20-4 | 20-6 | 20-7 | 20-8 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 |
| 475.00 | 22-7 | 22-8 | 22-10 | 22-11 | 23-1 | 23-2 | 23-4 | 23-5 | 23-7 | 23-8 |
| 500.00 | 25-0 | 25-2 | 25-3 | 25-5 | 25-7 | 25-9 | 25-10 | 26-0 | 26-2 | 26-3 |
| 525.00 | 27-7 | 27-9 | 27-11 | 28-1 | 28-2 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 |
| 550.00 | 30-3 | 30-5 | 30-7 | 30-9 | 31-0 | 31-2 | 31-4 | 31-6 | 31-8 | 31-10 |
| 575.00 | 33-1 | 33-3 | 33-6 | 33-8 | 33-10 | 34-1 | 34-3 | 34-5 | 34-7 | 34-9 |
| 600.00 | 36-1 | 36-3 | 36-6 | 36-8 | 36-11 | 37-1 | 37-3 | 37-6 | 37-8 | 37-11 |
| 625.00 | 39-2 | 39-4 | 39-7 | 39-10 | 40-0 | 40-3 | 40-6 | 40-8 | 40-11 | 41-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 0.77 | 2000 | 0.77 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 0.38 | 2057 | 0.38 | 2057 |
| 30 | 0 | 0 | 0 | 0.629 | 0.46 | 1704 | 0.46 | 1723 |
| 40 | 0 | 0 | 0 | 0.629 | 0.5 | 1587 | 0.49 | 1613 |
| 50 | 0 | 0 | 0 | 0.629 | 0.53 | 1474 | 0.52 | 1505 |
| 60 | 0 | 0 | 0 | 0.629 | 0.58 | 1364 | 0.56 | 1399 |
| 70 | 0 | 0 | 0 | 0.629 | 0.62 | 1259 | 0.61 | 1296 |
| 80 | 0 | 0 | 0 | 0.629 | 0.68 | 1160 | 0.66 | 1197 |
| 90 | 0 | 0 | 0 | 0.629 | 0.74 | 1066 | 0.71 | 1104 |
| 100 | 0 | 0 | 0 | 0.629 | 0.8 | 980 | 0.77 | 1016 |
| 110 | 0 | 0 | 0 | 0.629 | 0.87 | 901 | 0.84 | 934 |
| 120 | 0 | 0 | 0 | 0.629 | 0.95 | 830 | 0.91 | 860 |
| 130 | 0 | 0 | 0 | 0.629 | 1.03 | 767 | 0.99 | 794 |
| 167 | 0 | 0 | 0 | 0.629 | 1.31 | 599 | 1.27 | 620 |
| 212 | 0 | 0 | 0 | 0.629 | 1.63 | 484 | 1.58 | 499 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 3.07 | 2000 | 3.07 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 1.93 | 1633 | 1.91 | 1648 |
| 30 | 0 | 0 | 0 | 0.629 | 2.26 | 1394 | 2.22 | 1416 |
| 40 | 0 | 0 | 0 | 0.629 | 2.38 | 1324 | 2.34 | 1347 |
| 50 | 0 | 0 | 0 | 0.629 | 2.5 | 1259 | 2.45 | 1283 |
| 60 | 0 | 0 | 0 | 0.629 | 2.62 | 1199 | 2.57 | 1222 |
| 70 | 0 | 0 | 0 | 0.629 | 2.75 | 1144 | 2.7 | 1166 |
| 80 | 0 | 0 | 0 | 0.629 | 2.88 | 1093 | 2.83 | 1114 |
| 90 | 0 | 0 | 0 | 0.629 | 3.01 | 1046 | 2.95 | 1066 |
| 100 | 0 | 0 | 0 | 0.629 | 3.14 | 1003 | 3.08 | 1021 |
| 110 | 0 | 0 | 0 | 0.629 | 3.27 | 964 | 3.21 | 980 |
| 120 | 0 | 0 | 0 | 0.629 | 3.39 | 928 | 3.34 | 942 |
| 130 | 0 | 0 | 0 | 0.629 | 3.52 | 894 | 3.47 | 907 |
| 167 | 0 | 0 | 0 | 0.629 | 3.98 | 791 | 3.94 | 800 |
| 212 | 0 | 0 | 0 | 0.629 | 4.46 | 706 | 4.41 | 715 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 6.91 | 2000 | 6.91 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 5.35 | 1325 | 5.29 | 1339 |
| 30 | 0 | 0 | 0 | 0.629 | 5.85 | 1211 | 5.79 | 1225 |
| 40 | 0 | 0 | 0 | 0.629 | 6.02 | 1177 | 5.95 | 1191 |
| 50 | 0 | 0 | 0 | 0.629 | 6.19 | 1146 | 6.12 | 1159 |
| 60 | 0 | 0 | 0 | 0.629 | 6.35 | 1116 | 6.28 | 1129 |
| 70 | 0 | 0 | 0 | 0.629 | 6.51 | 1088 | 6.44 | 1100 |
| 80 | 0 | 0 | 0 | 0.629 | 6.68 | 1062 | 6.61 | 1073 |
| 90 | 0 | 0 | 0 | 0.629 | 6.84 | 1037 | 6.77 | 1048 |
| 100 | 0 | 0 | 0 | 0.629 | 6.99 | 1014 | 6.93 | 1024 |
| 110 | 0 | 0 | 0 | 0.629 | 7.15 | 992 | 7.08 | 1001 |
| 120 | 0 | 0 | 0 | 0.629 | 7.3 | 971 | 7.24 | 979 |
| 130 | 0 | 0 | 0 | 0.629 | 7.46 | 951 | 7.4 | 959 |
| 167 | 0 | 0 | 0 | 0.629 | 8.01 | 886 | 7.96 | 891 |
| 212 | 0 | 0 | 0 | 0.629 | 8.61 | 825 | 8.55 | 830 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. ˚F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 12.3 | 2000 | 12.3 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 10.6 | 1190 | 10.52 | 1199 |
| 30 | 0 | 0 | 0 | 0.629 | 11.16 | 1131 | 11.07 | 1139 |
| 40 | 0 | 0 | 0 | 0.629 | 11.34 | 1113 | 11.26 | 1121 |
| 50 | 0 | 0 | 0 | 0.629 | 11.52 | 1096 | 11.44 | 1104 |
| 60 | 0 | 0 | 0 | 0.629 | 11.7 | 1079 | 11.62 | 1087 |
| 70 | 0 | 0 | 0 | 0.629 | 11.87 | 1063 | 11.79 | 1070 |
| 80 | 0 | 0 | 0 | 0.629 | 12.05 | 1048 | 11.97 | 1055 |
| 90 | 0 | 0 | 0 | 0.629 | 12.22 | 1033 | 12.15 | 1040 |
| 100 | 0 | 0 | 0 | 0.629 | 12.39 | 1019 | 12.32 | 1025 |
| 110 | 0 | 0 | 0 | 0.629 | 12.56 | 1005 | 12.49 | 1011 |
| 120 | 0 | 0 | 0 | 0.629 | 12.73 | 992 | 12.66 | 997 |
| 130 | 0 | 0 | 0 | 0.629 | 12.9 | 979 | 12.83 | 984 |
| 167 | 0 | 0 | 0 | 0.629 | 13.5 | 936 | 13.45 | 939 |
| 212 | 0 | 0 | 0 | 0.629 | 14.18 | 892 | 14.12 | 895 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 1.225 | 19.25 | 2000 | 19.25 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 17.5 | 1128 | 17.42 | 1134 |
| 30 | 0 | 0 | 0 | 0.629 | 18.07 | 1093 | 17.99 | 1098 |
| 40 | 0 | 0 | 0 | 0.629 | 18.26 | 1082 | 18.18 | 1087 |
| 50 | 0 | 0 | 0 | 0.629 | 18.45 | 1071 | 18.36 | 1076 |
| 60 | 0 | 0 | 0 | 0.629 | 18.63 | 1061 | 18.55 | 1066 |
| 70 | 0 | 0 | 0 | 0.629 | 18.81 | 1051 | 18.73 | 1055 |
| 80 | 0 | 0 | 0 | 0.629 | 18.99 | 1041 | 18.91 | 1045 |
| 90 | 0 | 0 | 0 | 0.629 | 19.18 | 1031 | 19.1 | 1035 |
| 100 | 0 | 0 | 0 | 0.629 | 19.35 | 1022 | 19.28 | 1026 |
| 110 | 0 | 0 | 0 | 0.629 | 19.53 | 1013 | 19.46 | 1016 |
| 120 | 0 | 0 | 0 | 0.629 | 19.71 | 1004 | 19.64 | 1007 |
| 130 | 0 | 0 | 0 | 0.629 | 19.88 | 995 | 19.82 | 998 |
| 167 | 0 | 0 | 0 | 0.629 | 20.52 | 964 | 20.47 | 967 |
| 212 | 0 | 0 | 0 | 0.629 | 21.25 | 932 | 21.18 | 935 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-3 | 1-4 |
| 150.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-11 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 |
| 200.00 | 1-9 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-10 | 0-10 |
| 125.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 |
| 200.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-3 | 3-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-6 |
| 200.00 | 2-1 | 2-3 | 2-4 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 |
| 225.00 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 | 4-1 |
| 250.00 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-3 | 4-5 | 4-7 | 4-10 | 5-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 | 1-3 |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-10 |
| 175.00 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-4 | 2-5 | 2-6 |
| 200.00 | 2-2 | 2-3 | 2-5 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 |
| 225.00 | 2-9 | 2-10 | 3-0 | 3-2 | 3-4 | 3-6 | 3-8 | 3-10 | 4-0 | 4-2 |
| 250.00 | 3-4 | 3-6 | 3-9 | 3-11 | 4-1 | 4-4 | 4-6 | 4-8 | 4-11 | 5-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 |
| 175.00 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 |
| 200.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 |
| 225.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-0 |
| 250.00 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-10 | 4-11 |
| 275.00 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-7 | 5-8 | 5-10 | 5-11 |
| 300.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 |
| 325.00 | 6-7 | 6-10 | 7-0 | 7-2 | 7-4 | 7-7 | 7-9 | 7-11 | 8-2 | 8-4 |
| 350.00 | 7-8 | 7-11 | 8-1 | 8-4 | 8-7 | 8-9 | 9-0 | 9-3 | 9-5 | 9-8 |
| 375.00 | 8-9 | 9-1 | 9-4 | 9-7 | 9-10 | 10-1 | 10-4 | 10-7 | 10-10 | 11-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 |
| 175.00 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-5 |
| 200.00 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 |
| 225.00 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 250.00 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 5-0 |
| 275.00 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-11 | 6-0 |
| 300.00 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 |
| 325.00 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 | 8-0 | 8-3 | 8-5 |
| 350.00 | 7-9 | 8-0 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-4 | 9-6 | 9-9 |
| 375.00 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-5 | 10-8 | 10-11 | 11-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 |
| 225.00 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 |
| 250.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 300.00 | 6-1 | 6-3 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 |
| 325.00 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-2 | 8-3 |
| 350.00 | 8-4 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 |
| 375.00 | 9-7 | 9-9 | 9-11 | 10-1 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 |
| 400.00 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 |
| 425.00 | 12-4 | 12-6 | 12-9 | 12-11 | 13-1 | 13-4 | 13-6 | 13-9 | 13-11 | 14-1 |
| 450.00 | 13-9 | 14-0 | 14-3 | 14-6 | 14-8 | 14-11 | 15-2 | 15-5 | 15-7 | 15-10 |
| 475.00 | 15-4 | 15-7 | 15-11 | 16-2 | 16-5 | 16-8 | 16-11 | 17-2 | 17-5 | 17-7 |
| 500.00 | 17-0 | 17-4 | 17-7 | 17-11 | 18-2 | 18-5 | 18-9 | 19-0 | 19-3 | 19-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 2-9 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 |
| 225.00 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 4-0 |
| 250.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 |
| 275.00 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 300.00 | 6-2 | 6-3 | 6-4 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 |
| 325.00 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 |
| 350.00 | 8-5 | 8-6 | 8-8 | 8-10 | 8-11 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 |
| 375.00 | 9-8 | 9-10 | 10-0 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-0 |
| 400.00 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-1 | 12-3 | 12-5 | 12-7 |
| 425.00 | 12-5 | 12-7 | 12-10 | 13-0 | 13-2 | 13-5 | 13-7 | 13-10 | 14-0 | 14-2 |
| 450.00 | 13-11 | 14-1 | 14-4 | 14-7 | 14-10 | 15-0 | 15-3 | 15-6 | 15-8 | 15-11 |
| 475.00 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 | 17-3 | 17-6 | 17-9 |
| 500.00 | 17-2 | 17-5 | 17-9 | 18-0 | 18-3 | 18-7 | 18-10 | 19-1 | 19-5 | 19-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-10 |
| 275.00 | 5-5 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 |
| 300.00 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 |
| 325.00 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 350.00 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 375.00 | 10-0 | 10-1 | 10-3 | 10-4 | 10-5 | 10-6 | 10-8 | 10-9 | 10-10 | 10-11 |
| 400.00 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 | 12-3 | 12-4 | 12-5 |
| 425.00 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 |
| 450.00 | 14-5 | 14-7 | 14-9 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-7 | 15-9 |
| 475.00 | 16-1 | 16-3 | 16-5 | 16-7 | 16-9 | 16-11 | 17-1 | 17-3 | 17-5 | 17-7 |
| 500.00 | 17-10 | 18-0 | 18-2 | 18-4 | 18-7 | 18-9 | 18-11 | 19-1 | 19-3 | 19-6 |
| 525.00 | 19-8 | 19-10 | 20-1 | 20-3 | 20-5 | 20-8 | 20-10 | 21-1 | 21-3 | 21-5 |
| 550.00 | 21-7 | 21-9 | 22-0 | 22-3 | 22-5 | 22-8 | 22-11 | 23-1 | 23-4 | 23-7 |
| 575.00 | 23-7 | 23-10 | 24-1 | 24-4 | 24-7 | 24-9 | 25-0 | 25-3 | 25-6 | 25-9 |
| 600.00 | 25-8 | 25-11 | 26-2 | 26-6 | 26-9 | 27-0 | 27-3 | 27-6 | 27-9 | 28-1 |
| 625.00 | 27-10 | 28-2 | 28-5 | 28-9 | 29-0 | 29-4 | 29-7 | 29-10 | 30-2 | 30-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 | 4-11 |
| 275.00 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 |
| 300.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 |
| 325.00 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 350.00 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 |
| 375.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-6 | 10-7 | 10-8 | 10-9 | 10-11 | 11-0 |
| 400.00 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-0 | 12-2 | 12-3 | 12-5 | 12-6 |
| 425.00 | 12-11 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 | 13-9 | 13-10 | 14-0 | 14-1 |
| 450.00 | 14-6 | 14-8 | 14-9 | 14-11 | 15-1 | 15-3 | 15-5 | 15-6 | 15-8 | 15-10 |
| 475.00 | 16-2 | 16-4 | 16-6 | 16-8 | 16-10 | 17-0 | 17-2 | 17-4 | 17-6 | 17-7 |
| 500.00 | 17-11 | 18-1 | 18-3 | 18-5 | 18-8 | 18-10 | 19-0 | 19-2 | 19-4 | 19-6 |
| 525.00 | 19-9 | 19-11 | 20-2 | 20-4 | 20-7 | 20-9 | 20-11 | 21-2 | 21-4 | 21-6 |
| 550.00 | 21-8 | 21-11 | 22-1 | 22-4 | 22-7 | 22-9 | 23-0 | 23-3 | 23-5 | 23-8 |
| 575.00 | 23-8 | 23-11 | 24-2 | 24-5 | 24-8 | 24-11 | 25-2 | 25-5 | 25-7 | 25-10 |
| 600.00 | 25-9 | 26-1 | 26-4 | 26-7 | 26-10 | 27-1 | 27-5 | 27-8 | 27-11 | 28-2 |
| 625.00 | 28-0 | 28-3 | 28-7 | 28-10 | 29-2 | 29-5 | 29-9 | 30-0 | 30-3 | 30-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 2.39 | 1000 | 2.39 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 1.87 | 420 | 1.85 | 425 |
| 30 | 0 | 0 | 0 | 0.629 | 1.94 | 405 | 1.92 | 410 |
| 40 | 0 | 0 | 0 | 0.629 | 2.01 | 392 | 1.99 | 396 |
| 50 | 0 | 0 | 0 | 0.629 | 2.08 | 380 | 2.06 | 383 |
| 60 | 0 | 0 | 0 | 0.629 | 2.14 | 368 | 2.12 | 371 |
| 70 | 0 | 0 | 0 | 0.629 | 2.2 | 358 | 2.19 | 360 |
| 80 | 0 | 0 | 0 | 0.629 | 2.26 | 348 | 2.25 | 350 |
| 90 | 0 | 0 | 0 | 0.629 | 2.32 | 339 | 2.31 | 341 |
| 100 | 0 | 0 | 0 | 0.629 | 2.38 | 331 | 2.37 | 332 |
| 110 | 0 | 0 | 0 | 0.629 | 2.44 | 323 | 2.43 | 325 |
| 120 | 0 | 0 | 0 | 0.629 | 2.5 | 316 | 2.48 | 318 |
| 130 | 0 | 0 | 0 | 0.629 | 2.55 | 309 | 2.53 | 312 |
| 167 | 0 | 0 | 0 | 0.629 | 2.73 | 289 | 2.71 | 291 |
| 212 | 0 | 0 | 0 | 0.629 | 2.93 | 269 | 2.91 | 271 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 9.63 | 1000 | 9.63 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 9.12 | 348 | 9.09 | 349 |
| 30 | 0 | 0 | 0 | 0.629 | 9.18 | 345 | 9.16 | 346 |
| 40 | 0 | 0 | 0 | 0.629 | 9.24 | 343 | 9.22 | 344 |
| 50 | 0 | 0 | 0 | 0.629 | 9.31 | 341 | 9.29 | 341 |
| 60 | 0 | 0 | 0 | 0.629 | 9.37 | 339 | 9.35 | 339 |
| 70 | 0 | 0 | 0 | 0.629 | 9.43 | 336 | 9.42 | 337 |
| 80 | 0 | 0 | 0 | 0.629 | 9.49 | 334 | 9.48 | 335 |
| 90 | 0 | 0 | 0 | 0.629 | 9.56 | 332 | 9.54 | 333 |
| 100 | 0 | 0 | 0 | 0.629 | 9.62 | 330 | 9.61 | 330 |
| 110 | 0 | 0 | 0 | 0.629 | 9.68 | 328 | 9.66 | 328 |
| 120 | 0 | 0 | 0 | 0.629 | 9.74 | 326 | 9.72 | 327 |
| 130 | 0 | 0 | 0 | 0.629 | 9.8 | 324 | 9.77 | 325 |
| 167 | 0 | 0 | 0 | 0.629 | 10 | 318 | 9.97 | 318 |
| 212 | 0 | 0 | 0 | 0.629 | 10.24 | 310 | 10.21 | 311 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 21.92 | 1000 | 21.92 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 21.41 | 337 | 21.39 | 338 |
| 30 | 0 | 0 | 0 | 0.629 | 21.47 | 336 | 21.45 | 337 |
| 40 | 0 | 0 | 0 | 0.629 | 21.54 | 335 | 21.52 | 336 |
| 50 | 0 | 0 | 0 | 0.629 | 21.6 | 334 | 21.58 | 335 |
| 60 | 0 | 0 | 0 | 0.629 | 21.66 | 333 | 21.64 | 334 |
| 70 | 0 | 0 | 0 | 0.629 | 21.72 | 333 | 21.71 | 333 |
| 80 | 0 | 0 | 0 | 0.629 | 21.79 | 332 | 21.77 | 332 |
| 90 | 0 | 0 | 0 | 0.629 | 21.85 | 331 | 21.83 | 331 |
| 100 | 0 | 0 | 0 | 0.629 | 21.91 | 330 | 21.9 | 330 |
| 110 | 0 | 0 | 0 | 0.629 | 21.97 | 329 | 21.96 | 329 |
| 120 | 0 | 0 | 0 | 0.629 | 22.03 | 328 | 22.01 | 328 |
| 130 | 0 | 0 | 0 | 0.629 | 22.09 | 327 | 22.07 | 328 |
| 167 | 0 | 0 | 0 | 0.629 | 22.3 | 324 | 22.27 | 325 |
| 212 | 0 | 0 | 0 | 0.629 | 22.54 | 321 | 22.52 | 321 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 39.65 | 1000 | 39.65 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 39.15 | 334 | 39.13 | 334 |
| 30 | 0 | 0 | 0 | 0.629 | 39.21 | 333 | 39.19 | 333 |
| 40 | 0 | 0 | 0 | 0.629 | 39.27 | 333 | 39.25 | 333 |
| 50 | 0 | 0 | 0 | 0.629 | 39.34 | 332 | 39.32 | 332 |
| 60 | 0 | 0 | 0 | 0.629 | 39.4 | 332 | 39.38 | 332 |
| 70 | 0 | 0 | 0 | 0.629 | 39.46 | 331 | 39.44 | 331 |
| 80 | 0 | 0 | 0 | 0.629 | 39.52 | 331 | 39.51 | 331 |
| 90 | 0 | 0 | 0 | 0.629 | 39.58 | 330 | 39.57 | 330 |
| 100 | 0 | 0 | 0 | 0.629 | 39.64 | 330 | 39.63 | 330 |
| 110 | 0 | 0 | 0 | 0.629 | 39.71 | 329 | 39.69 | 329 |
| 120 | 0 | 0 | 0 | 0.629 | 39.77 | 329 | 39.75 | 329 |
| 130 | 0 | 0 | 0 | 0.629 | 39.83 | 328 | 39.8 | 329 |
| 167 | 0 | 0 | 0 | 0.629 | 40.03 | 327 | 40.01 | 327 |
| 212 | 0 | 0 | 0 | 0.629 | 40.28 | 325 | 40.26 | 325 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 63.47 | 1000 | 63.47 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 62.97 | 332 | 62.94 | 332 |
| 30 | 0 | 0 | 0 | 0.629 | 63.03 | 332 | 63.01 | 332 |
| 40 | 0 | 0 | 0 | 0.629 | 63.09 | 332 | 63.07 | 332 |
| 50 | 0 | 0 | 0 | 0.629 | 63.15 | 331 | 63.13 | 331 |
| 60 | 0 | 0 | 0 | 0.629 | 63.21 | 331 | 63.2 | 331 |
| 70 | 0 | 0 | 0 | 0.629 | 63.27 | 331 | 63.26 | 331 |
| 80 | 0 | 0 | 0 | 0.629 | 63.34 | 330 | 63.32 | 330 |
| 90 | 0 | 0 | 0 | 0.629 | 63.4 | 330 | 63.38 | 330 |
| 100 | 0 | 0 | 0 | 0.629 | 63.46 | 330 | 63.45 | 330 |
| 110 | 0 | 0 | 0 | 0.629 | 63.52 | 330 | 63.51 | 330 |
| 120 | 0 | 0 | 0 | 0.629 | 63.58 | 329 | 63.56 | 329 |
| 130 | 0 | 0 | 0 | 0.629 | 63.64 | 329 | 63.62 | 329 |
| 167 | 0 | 0 | 0 | 0.629 | 63.85 | 328 | 63.82 | 328 |
| 212 | 0 | 0 | 0 | 0.629 | 64.1 | 327 | 64.08 | 327 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 100.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 |
| 125.00 | 2-11 | 3-0 | 3-1 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-10 |
| 150.00 | 4-2 | 4-4 | 4-6 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 |
| 175.00 | 5-8 | 5-11 | 6-1 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 |
| 200.00 | 7-5 | 7-8 | 8-0 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 100.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 |
| 125.00 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 |
| 150.00 | 4-3 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 | 5-6 |
| 175.00 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 |
| 200.00 | 7-6 | 7-9 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.123

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 |
| 125.00 | 3-7 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 |
| 150.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 |
| 175.00 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 |
| 200.00 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 |
| 225.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 |
| 250.00 | 14-3 | 14-4 | 14-5 | 14-6 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 |
| 125.00 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 |
| 150.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 |
| 175.00 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 |
| 200.00 | 9-1 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 |
| 225.00 | 11-7 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 |
| 250.00 | 14-3 | 14-4 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-1 | 15-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-4 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 |
| 175.00 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 |
| 200.00 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 |
| 225.00 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 |
| 250.00 | 14-10 | 14-10 | 14-11 | 14-11 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 |
| 275.00 | 17-11 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-5 |
| 300.00 | 21-5 | 21-5 | 21-6 | 21-7 | 21-8 | 21-8 | 21-9 | 21-10 | 21-11 | 21-11 |
| 325.00 | 25-2 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 |
| 350.00 | 29-2 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-10 | 29-11 | 30-0 |
| 375.00 | 33-7 | 33-8 | 33-9 | 33-10 | 33-11 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-4 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 |
| 175.00 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-5 |
| 200.00 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 |
| 225.00 | 12-0 | 12-1 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 |
| 250.00 | 14-10 | 14-11 | 14-11 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 |
| 275.00 | 18-0 | 18-0 | 18-1 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-5 |
| 300.00 | 21-5 | 21-6 | 21-6 | 21-7 | 21-8 | 21-9 | 21-9 | 21-10 | 21-11 | 22-0 |
| 325.00 | 25-2 | 25-3 | 25-4 | 25-5 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 |
| 350.00 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 |
| 375.00 | 33-7 | 33-8 | 33-9 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 |
| 225.00 | 12-3 | 12-4 | 12-4 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 |
| 250.00 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 | 15-5 |
| 275.00 | 18-4 | 18-5 | 18-5 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 | 18-8 |
| 300.00 | 21-11 | 21-11 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 |
| 325.00 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-1 |
| 350.00 | 29-10 | 29-11 | 30-0 | 30-0 | 30-1 | 30-1 | 30-2 | 30-2 | 30-3 | 30-4 |
| 375.00 | 34-4 | 34-5 | 34-5 | 34-6 | 34-7 | 34-7 | 34-8 | 34-9 | 34-9 | 34-10 |
| 400.00 | 39-2 | 39-2 | 39-3 | 39-4 | 39-5 | 39-5 | 39-6 | 39-7 | 39-8 | 39-8 |
| 425.00 | 44-3 | 44-4 | 44-5 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 |
| 450.00 | 49-8 | 49-9 | 49-10 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 |
| 475.00 | 55-5 | 55-7 | 55-8 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-2 | 56-3 |
| 500.00 | 61-7 | 61-8 | 61-9 | 61-10 | 62-0 | 62-1 | 62-2 | 62-3 | 62-4 | 62-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-8 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 |
| 225.00 | 12-3 | 12-4 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 | 12-5 |
| 250.00 | 15-2 | 15-2 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 | 15-4 | 15-5 |
| 275.00 | 18-5 | 18-5 | 18-5 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 | 18-8 |
| 300.00 | 21-11 | 21-11 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 | 22-2 | 22-2 | 22-3 |
| 325.00 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-1 |
| 350.00 | 29-11 | 29-11 | 30-0 | 30-0 | 30-1 | 30-1 | 30-2 | 30-3 | 30-3 | 30-4 |
| 375.00 | 34-4 | 34-5 | 34-6 | 34-6 | 34-7 | 34-8 | 34-8 | 34-9 | 34-9 | 34-10 |
| 400.00 | 39-2 | 39-3 | 39-3 | 39-4 | 39-5 | 39-6 | 39-6 | 39-7 | 39-8 | 39-8 |
| 425.00 | 44-3 | 44-4 | 44-5 | 44-6 | 44-7 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 |
| 450.00 | 49-9 | 49-9 | 49-10 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 |
| 475.00 | 55-6 | 55-7 | 55-8 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-2 | 56-3 |
| 500.00 | 61-7 | 61-8 | 61-10 | 61-11 | 62-0 | 62-1 | 62-2 | 62-3 | 62-5 | 62-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-6 | 15-6 | 15-6 | 15-7 | 15-7 | 15-7 | 15-7 | 15-7 | 15-7 | 15-8 |
| 275.00 | 18-9 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 |
| 300.00 | 22-4 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-7 | 22-7 |
| 325.00 | 26-3 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-6 | 26-6 | 26-6 |
| 350.00 | 30-6 | 30-7 | 30-7 | 30-7 | 30-8 | 30-8 | 30-8 | 30-9 | 30-9 | 30-10 |
| 375.00 | 35-1 | 35-2 | 35-2 | 35-2 | 35-3 | 35-3 | 35-4 | 35-4 | 35-4 | 35-5 |
| 400.00 | 40-0 | 40-0 | 40-1 | 40-1 | 40-2 | 40-2 | 40-3 | 40-3 | 40-4 | 40-4 |
| 425.00 | 45-3 | 45-3 | 45-4 | 45-4 | 45-5 | 45-5 | 45-6 | 45-6 | 45-7 | 45-7 |
| 450.00 | 50-9 | 50-10 | 50-11 | 50-11 | 51-0 | 51-0 | 51-1 | 51-2 | 51-2 | 51-3 |
| 475.00 | 56-8 | 56-9 | 56-10 | 56-10 | 56-11 | 57-0 | 57-0 | 57-1 | 57-2 | 57-2 |
| 500.00 | 62-11 | 63-0 | 63-1 | 63-2 | 63-2 | 63-3 | 63-4 | 63-5 | 63-5 | 63-6 |
| 525.00 | 69-6 | 69-7 | 69-8 | 69-9 | 69-10 | 69-11 | 69-11 | 70-0 | 70-1 | 70-2 |
| 550.00 | 76-6 | 76-7 | 76-8 | 76-9 | 76-10 | 76-10 | 76-11 | 77-0 | 77-1 | 77-2 |
| 575.00 | 83-9 | 83-10 | 83-11 | 84-0 | 84-2 | 84-3 | 84-4 | 84-5 | 84-6 | 84-7 |
| 600.00 | 91-5 | 91-6 | 91-8 | 91-9 | 91-10 | 91-11 | 92-0 | 92-1 | 92-2 | 92-3 |
| 625.00 | 99-6 | 99-7 | 99-8 | 99-9 | 99-11 | 100-0 | 100-1 | 100-2 | 100-3 | 100-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-6 | 15-6 | 15-6 | 15-7 | 15-7 | 15-7 | 15-7 | 15-7 | 15-7 | 15-8 |
| 275.00 | 18-9 | 18-10 | 18-10 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 |
| 300.00 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-7 | 22-7 |
| 325.00 | 26-4 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-6 | 26-6 | 26-6 |
| 350.00 | 30-6 | 30-7 | 30-7 | 30-7 | 30-8 | 30-8 | 30-9 | 30-9 | 30-9 | 30-10 |
| 375.00 | 35-1 | 35-2 | 35-2 | 35-2 | 35-3 | 35-3 | 35-4 | 35-4 | 35-5 | 35-5 |
| 400.00 | 40-0 | 40-1 | 40-1 | 40-1 | 40-2 | 40-2 | 40-3 | 40-3 | 40-4 | 40-4 |
| 425.00 | 45-3 | 45-3 | 45-4 | 45-4 | 45-5 | 45-5 | 45-6 | 45-7 | 45-7 | 45-8 |
| 450.00 | 50-10 | 50-10 | 50-11 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-2 | 51-3 |
| 475.00 | 56-9 | 56-9 | 56-10 | 56-11 | 56-11 | 57-0 | 57-1 | 57-1 | 57-2 | 57-3 |
| 500.00 | 63-0 | 63-0 | 63-1 | 63-2 | 63-3 | 63-3 | 63-4 | 63-5 | 63-6 | 63-6 |
| 525.00 | 69-7 | 69-8 | 69-8 | 69-9 | 69-10 | 69-11 | 70-0 | 70-1 | 70-1 | 70-2 |
| 550.00 | 76-6 | 76-7 | 76-8 | 76-9 | 76-10 | 76-11 | 77-0 | 77-0 | 77-1 | 77-2 |
| 575.00 | 83-10 | 83-11 | 84-0 | 84-1 | 84-2 | 84-3 | 84-4 | 84-5 | 84-6 | 84-7 |
| 600.00 | 91-6 | 91-7 | 91-8 | 91-9 | 91-10 | 91-11 | 92-0 | 92-1 | 92-3 | 92-4 |
| 625.00 | 99-6 | 99-7 | 99-8 | 99-10 | 99-11 | 100-0 | 100-1 | 100-2 | 100-4 | 100-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 1.59 | 1500 | 1.59 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 0.76 | 1030 | 0.75 | 1048 |
| 30 | 0 | 0 | 0 | 0.629 | 0.83 | 947 | 0.81 | 966 |
| 40 | 0 | 0 | 0 | 0.629 | 0.9 | 871 | 0.88 | 891 |
| 50 | 0 | 0 | 0 | 0.629 | 0.98 | 804 | 0.96 | 822 |
| 60 | 0 | 0 | 0 | 0.629 | 1.06 | 744 | 1.03 | 761 |
| 70 | 0 | 0 | 0 | 0.629 | 1.14 | 691 | 1.11 | 707 |
| 80 | 0 | 0 | 0 | 0.629 | 1.22 | 645 | 1.19 | 659 |
| 90 | 0 | 0 | 0 | 0.629 | 1.3 | 605 | 1.28 | 617 |
| 100 | 0 | 0 | 0 | 0.629 | 1.38 | 570 | 1.36 | 580 |
| 110 | 0 | 0 | 0 | 0.629 | 1.46 | 539 | 1.44 | 547 |
| 120 | 0 | 0 | 0 | 0.629 | 1.54 | 512 | 1.52 | 519 |
| 130 | 0 | 0 | 0 | 0.629 | 1.61 | 487 | 1.59 | 495 |
| 167 | 0 | 0 | 0 | 0.629 | 1.87 | 422 | 1.83 | 430 |
| 212 | 0 | 0 | 0 | 0.629 | 2.14 | 369 | 2.1 | 375 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 6.38 | 1500 | 6.38 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 5.38 | 587 | 5.33 | 591 |
| 30 | 0 | 0 | 0 | 0.629 | 5.48 | 576 | 5.44 | 580 |
| 40 | 0 | 0 | 0 | 0.629 | 5.58 | 566 | 5.54 | 570 |
| 50 | 0 | 0 | 0 | 0.629 | 5.67 | 556 | 5.63 | 560 |
| 60 | 0 | 0 | 0 | 0.629 | 5.77 | 547 | 5.73 | 550 |
| 70 | 0 | 0 | 0 | 0.629 | 5.87 | 538 | 5.83 | 541 |
| 80 | 0 | 0 | 0 | 0.629 | 5.96 | 530 | 5.93 | 533 |
| 90 | 0 | 0 | 0 | 0.629 | 6.05 | 522 | 6.02 | 524 |
| 100 | 0 | 0 | 0 | 0.629 | 6.14 | 514 | 6.11 | 516 |
| 110 | 0 | 0 | 0 | 0.629 | 6.23 | 506 | 6.21 | 509 |
| 120 | 0 | 0 | 0 | 0.629 | 6.32 | 499 | 6.3 | 501 |
| 130 | 0 | 0 | 0 | 0.629 | 6.41 | 493 | 6.38 | 495 |
| 167 | 0 | 0 | 0 | 0.629 | 6.71 | 471 | 6.67 | 473 |
| 212 | 0 | 0 | 0 | 0.629 | 7.05 | 448 | 7.01 | 451 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 14.44 | 1500 | 14.44 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 13.44 | 531 | 13.39 | 533 |
| 30 | 0 | 0 | 0 | 0.629 | 13.53 | 527 | 13.49 | 529 |
| 40 | 0 | 0 | 0 | 0.629 | 13.63 | 523 | 13.59 | 525 |
| 50 | 0 | 0 | 0 | 0.629 | 13.72 | 520 | 13.68 | 521 |
| 60 | 0 | 0 | 0 | 0.629 | 13.82 | 516 | 13.78 | 518 |
| 70 | 0 | 0 | 0 | 0.629 | 13.91 | 513 | 13.88 | 514 |
| 80 | 0 | 0 | 0 | 0.629 | 14.01 | 510 | 13.97 | 511 |
| 90 | 0 | 0 | 0 | 0.629 | 14.1 | 506 | 14.07 | 507 |
| 100 | 0 | 0 | 0 | 0.629 | 14.19 | 503 | 14.16 | 504 |
| 110 | 0 | 0 | 0 | 0.629 | 14.28 | 500 | 14.26 | 501 |
| 120 | 0 | 0 | 0 | 0.629 | 14.38 | 497 | 14.35 | 498 |
| 130 | 0 | 0 | 0 | 0.629 | 14.47 | 494 | 14.44 | 495 |
| 167 | 0 | 0 | 0 | 0.629 | 14.78 | 483 | 14.74 | 485 |
| 212 | 0 | 0 | 0 | 0.629 | 15.14 | 472 | 15.1 | 473 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 25.86 | 1500 | 25.86 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 24.86 | 514 | 24.82 | 515 |
| 30 | 0 | 0 | 0 | 0.629 | 24.96 | 512 | 24.91 | 513 |
| 40 | 0 | 0 | 0 | 0.629 | 25.05 | 510 | 25.01 | 511 |
| 50 | 0 | 0 | 0 | 0.629 | 25.14 | 508 | 25.1 | 509 |
| 60 | 0 | 0 | 0 | 0.629 | 25.24 | 506 | 25.2 | 507 |
| 70 | 0 | 0 | 0 | 0.629 | 25.33 | 505 | 25.29 | 505 |
| 80 | 0 | 0 | 0 | 0.629 | 25.42 | 503 | 25.39 | 503 |
| 90 | 0 | 0 | 0 | 0.629 | 25.52 | 501 | 25.48 | 502 |
| 100 | 0 | 0 | 0 | 0.629 | 25.61 | 499 | 25.58 | 500 |
| 110 | 0 | 0 | 0 | 0.629 | 25.7 | 498 | 25.67 | 498 |
| 120 | 0 | 0 | 0 | 0.629 | 25.79 | 496 | 25.77 | 496 |
| 130 | 0 | 0 | 0 | 0.629 | 25.89 | 494 | 25.86 | 495 |
| 167 | 0 | 0 | 0 | 0.629 | 26.21 | 488 | 26.16 | 489 |
| 212 | 0 | 0 | 0 | 0.629 | 26.58 | 482 | 26.53 | 482 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 40.8 | 1500 | 40.8 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 39.8 | 506 | 39.76 | 507 |
| 30 | 0 | 0 | 0 | 0.629 | 39.9 | 505 | 39.85 | 506 |
| 40 | 0 | 0 | 0 | 0.629 | 39.99 | 504 | 39.95 | 505 |
| 50 | 0 | 0 | 0 | 0.629 | 40.08 | 503 | 40.04 | 503 |
| 60 | 0 | 0 | 0 | 0.629 | 40.18 | 502 | 40.14 | 502 |
| 70 | 0 | 0 | 0 | 0.629 | 40.27 | 501 | 40.23 | 501 |
| 80 | 0 | 0 | 0 | 0.629 | 40.36 | 500 | 40.33 | 500 |
| 90 | 0 | 0 | 0 | 0.629 | 40.46 | 499 | 40.42 | 499 |
| 100 | 0 | 0 | 0 | 0.629 | 40.55 | 498 | 40.52 | 498 |
| 110 | 0 | 0 | 0 | 0.629 | 40.64 | 496 | 40.61 | 497 |
| 120 | 0 | 0 | 0 | 0.629 | 40.73 | 495 | 40.71 | 496 |
| 130 | 0 | 0 | 0 | 0.629 | 40.83 | 494 | 40.8 | 495 |
| 167 | 0 | 0 | 0 | 0.629 | 41.15 | 491 | 41.11 | 491 |
| 212 | 0 | 0 | 0 | 0.629 | 41.52 | 486 | 41.48 | 487 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 |
| 125.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 |
| 150.00 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-1 | 3-3 |
| 175.00 | 2-4 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 |
| 200.00 | 3-0 | 3-3 | 3-6 | 3-10 | 4-2 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 |
| 150.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 |
| 175.00 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 |
| 200.00 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 | 4-7 | 4-11 | 5-2 | 5-6 | 5-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 |
| 125.00 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 150.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 |
| 175.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-9 |
| 200.00 | 5-4 | 5-5 | 5-6 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 |
| 225.00 | 6-9 | 6-11 | 7-0 | 7-2 | 7-3 | 7-5 | 7-6 | 7-7 | 7-9 | 7-10 |
| 250.00 | 8-4 | 8-6 | 8-8 | 8-10 | 9-0 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-6 | 1-7 |
| 125.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 |
| 150.00 | 3-0 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 175.00 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 |
| 200.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 |
| 225.00 | 6-10 | 6-11 | 7-1 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 |
| 250.00 | 8-5 | 8-7 | 8-9 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.132

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-7 |
| 175.00 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 |
| 200.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 |
| 225.00 | 7-6 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 |
| 250.00 | 9-4 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-10 | 9-11 |
| 275.00 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 |
| 300.00 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 |
| 325.00 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-6 | 16-8 | 16-9 |
| 350.00 | 18-3 | 18-5 | 18-6 | 18-8 | 18-9 | 18-11 | 19-0 | 19-2 | 19-4 | 19-5 |
| 375.00 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 21-10 | 22-0 | 22-2 | 22-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-4 | 3-5 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-7 |
| 175.00 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 |
| 200.00 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 |
| 225.00 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-0 |
| 250.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 |
| 275.00 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 |
| 300.00 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 |
| 325.00 | 15-9 | 15-11 | 16-0 | 16-1 | 16-3 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 |
| 350.00 | 18-4 | 18-5 | 18-7 | 18-8 | 18-10 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 |
| 375.00 | 21-0 | 21-2 | 21-4 | 21-6 | 21-8 | 21-9 | 21-11 | 22-1 | 22-3 | 22-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 |
| 225.00 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 |
| 250.00 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 |
| 275.00 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 |
| 300.00 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 |
| 325.00 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 | 16-9 | 16-10 | 16-10 | 16-11 |
| 350.00 | 19-0 | 19-1 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 |
| 375.00 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 |
| 400.00 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 |
| 425.00 | 28-0 | 28-2 | 28-3 | 28-4 | 28-6 | 28-7 | 28-8 | 28-9 | 28-11 | 29-0 |
| 450.00 | 31-5 | 31-7 | 31-8 | 31-10 | 31-11 | 32-1 | 32-2 | 32-4 | 32-5 | 32-6 |
| 475.00 | 35-1 | 35-2 | 35-4 | 35-6 | 35-7 | 35-9 | 35-11 | 36-0 | 36-2 | 36-3 |
| 500.00 | 38-11 | 39-0 | 39-2 | 39-4 | 39-6 | 39-8 | 39-9 | 39-11 | 40-1 | 40-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 |
| 225.00 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 |
| 250.00 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 |
| 275.00 | 11-9 | 11-9 | 11-10 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 |
| 300.00 | 13-11 | 14-0 | 14-1 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 |
| 325.00 | 16-5 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 | 16-10 | 16-11 | 16-11 |
| 350.00 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 |
| 375.00 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 |
| 400.00 | 24-10 | 24-11 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 |
| 425.00 | 28-1 | 28-2 | 28-4 | 28-5 | 28-6 | 28-7 | 28-9 | 28-10 | 28-11 | 29-0 |
| 450.00 | 31-6 | 31-8 | 31-9 | 31-10 | 32-0 | 32-1 | 32-3 | 32-4 | 32-6 | 32-7 |
| 475.00 | 35-2 | 35-3 | 35-5 | 35-6 | 35-8 | 35-10 | 35-11 | 36-1 | 36-2 | 36-4 |
| 500.00 | 38-11 | 39-1 | 39-3 | 39-5 | 39-7 | 39-8 | 39-10 | 40-0 | 40-2 | 40-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-11 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 |
| 275.00 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 |
| 300.00 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 |
| 325.00 | 16-9 | 16-9 | 16-10 | 16-10 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 |
| 350.00 | 19-5 | 19-5 | 19-6 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 |
| 375.00 | 22-3 | 22-4 | 22-5 | 22-5 | 22-6 | 22-7 | 22-7 | 22-8 | 22-8 | 22-9 |
| 400.00 | 25-4 | 25-5 | 25-6 | 25-7 | 25-7 | 25-8 | 25-9 | 25-10 | 25-10 | 25-11 |
| 425.00 | 28-8 | 28-9 | 28-10 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-2 | 29-3 |
| 450.00 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 |
| 475.00 | 35-10 | 35-11 | 36-0 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 |
| 500.00 | 39-9 | 39-10 | 39-11 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 | 40-6 | 40-7 |
| 525.00 | 43-10 | 44-0 | 44-1 | 44-2 | 44-4 | 44-5 | 44-6 | 44-7 | 44-9 | 44-10 |
| 550.00 | 48-2 | 48-4 | 48-5 | 48-6 | 48-8 | 48-9 | 48-11 | 49-0 | 49-1 | 49-3 |
| 575.00 | 52-9 | 52-10 | 53-0 | 53-1 | 53-3 | 53-4 | 53-6 | 53-7 | 53-9 | 53-10 |
| 600.00 | 57-6 | 57-7 | 57-9 | 57-11 | 58-0 | 58-2 | 58-4 | 58-5 | 58-7 | 58-8 |
| 625.00 | 62-5 | 62-7 | 62-9 | 62-10 | 63-0 | 63-2 | 63-4 | 63-6 | 63-7 | 63-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-11 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 |
| 275.00 | 12-0 | 12-0 | 12-0 | 12-1 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 |
| 300.00 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 |
| 325.00 | 16-9 | 16-9 | 16-10 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 |
| 350.00 | 19-5 | 19-6 | 19-6 | 19-7 | 19-7 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 |
| 375.00 | 22-4 | 22-4 | 22-5 | 22-6 | 22-6 | 22-7 | 22-7 | 22-8 | 22-9 | 22-9 |
| 400.00 | 25-5 | 25-5 | 25-6 | 25-7 | 25-8 | 25-8 | 25-9 | 25-10 | 25-10 | 25-11 |
| 425.00 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 |
| 450.00 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-9 | 32-10 |
| 475.00 | 35-11 | 36-0 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 |
| 500.00 | 39-10 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 | 40-7 | 40-8 |
| 525.00 | 43-11 | 44-0 | 44-2 | 44-3 | 44-4 | 44-5 | 44-6 | 44-8 | 44-9 | 44-10 |
| 550.00 | 48-3 | 48-4 | 48-6 | 48-7 | 48-8 | 48-10 | 48-11 | 49-0 | 49-2 | 49-3 |
| 575.00 | 52-9 | 52-11 | 53-0 | 53-2 | 53-3 | 53-5 | 53-6 | 53-8 | 53-9 | 53-11 |
| 600.00 | 57-6 | 57-8 | 57-10 | 57-11 | 58-1 | 58-2 | 58-4 | 58-6 | 58-7 | 58-9 |
| 625.00 | 62-6 | 62-8 | 62-9 | 62-11 | 63-1 | 63-3 | 63-4 | 63-6 | 63-8 | 63-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 1.19 | 2000 | 1.19 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 0.43 | 1843 | 0.43 | 1849 |
| 30 | 0 | 0 | 0 | 0.629 | 0.46 | 1724 | 0.45 | 1738 |
| 40 | 0 | 0 | 0 | 0.629 | 0.49 | 1607 | 0.48 | 1628 |
| 50 | 0 | 0 | 0 | 0.629 | 0.53 | 1493 | 0.52 | 1519 |
| 60 | 0 | 0 | 0 | 0.629 | 0.57 | 1383 | 0.56 | 1413 |
| 70 | 0 | 0 | 0 | 0.629 | 0.62 | 1277 | 0.6 | 1309 |
| 80 | 0 | 0 | 0 | 0.629 | 0.67 | 1176 | 0.65 | 1210 |
| 90 | 0 | 0 | 0 | 0.629 | 0.73 | 1081 | 0.71 | 1115 |
| 100 | 0 | 0 | 0 | 0.629 | 0.79 | 994 | 0.77 | 1027 |
| 110 | 0 | 0 | 0 | 0.629 | 0.86 | 914 | 0.83 | 945 |
| 120 | 0 | 0 | 0 | 0.629 | 0.93 | 842 | 0.9 | 870 |
| 130 | 0 | 0 | 0 | 0.629 | 1.01 | 777 | 0.98 | 802 |
| 167 | 0 | 0 | 0 | 0.629 | 1.3 | 604 | 1.26 | 625 |
| 212 | 0 | 0 | 0 | 0.629 | 1.62 | 487 | 1.57 | 502 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 4.78 | 2000 | 4.78 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 3.18 | 989 | 3.12 | 1008 |
| 30 | 0 | 0 | 0 | 0.629 | 3.31 | 950 | 3.25 | 968 |
| 40 | 0 | 0 | 0 | 0.629 | 3.44 | 915 | 3.38 | 932 |
| 50 | 0 | 0 | 0 | 0.629 | 3.57 | 883 | 3.51 | 898 |
| 60 | 0 | 0 | 0 | 0.629 | 3.69 | 853 | 3.63 | 867 |
| 70 | 0 | 0 | 0 | 0.629 | 3.82 | 825 | 3.76 | 838 |
| 80 | 0 | 0 | 0 | 0.629 | 3.94 | 799 | 3.88 | 812 |
| 90 | 0 | 0 | 0 | 0.629 | 4.06 | 776 | 4 | 787 |
| 100 | 0 | 0 | 0 | 0.629 | 4.18 | 754 | 4.12 | 764 |
| 110 | 0 | 0 | 0 | 0.629 | 4.3 | 733 | 4.24 | 742 |
| 120 | 0 | 0 | 0 | 0.629 | 4.41 | 714 | 4.36 | 722 |
| 130 | 0 | 0 | 0 | 0.629 | 4.53 | 696 | 4.48 | 703 |
| 167 | 0 | 0 | 0 | 0.629 | 4.93 | 639 | 4.87 | 647 |
| 212 | 0 | 0 | 0 | 0.629 | 5.35 | 589 | 5.29 | 596 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 10.78 | 2000 | 10.78 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 9.13 | 778 | 9.05 | 785 |
| 30 | 0 | 0 | 0 | 0.629 | 9.26 | 767 | 9.19 | 773 |
| 40 | 0 | 0 | 0 | 0.629 | 9.39 | 756 | 9.32 | 762 |
| 50 | 0 | 0 | 0 | 0.629 | 9.52 | 746 | 9.45 | 752 |
| 60 | 0 | 0 | 0 | 0.629 | 9.65 | 736 | 9.58 | 742 |
| 70 | 0 | 0 | 0 | 0.629 | 9.78 | 727 | 9.71 | 732 |
| 80 | 0 | 0 | 0 | 0.629 | 9.91 | 717 | 9.84 | 722 |
| 90 | 0 | 0 | 0 | 0.629 | 10.03 | 709 | 9.97 | 713 |
| 100 | 0 | 0 | 0 | 0.629 | 10.15 | 700 | 10.09 | 704 |
| 110 | 0 | 0 | 0 | 0.629 | 10.28 | 692 | 10.22 | 696 |
| 120 | 0 | 0 | 0 | 0.629 | 10.4 | 684 | 10.34 | 687 |
| 130 | 0 | 0 | 0 | 0.629 | 10.52 | 676 | 10.47 | 679 |
| 167 | 0 | 0 | 0 | 0.629 | 10.95 | 650 | 10.88 | 654 |
| 212 | 0 | 0 | 0 | 0.629 | 11.41 | 624 | 11.35 | 627 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 19.25 | 2000 | 19.25 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 17.6 | 720 | 17.52 | 724 |
| 30 | 0 | 0 | 0 | 0.629 | 17.73 | 715 | 17.65 | 718 |
| 40 | 0 | 0 | 0 | 0.629 | 17.86 | 710 | 17.78 | 713 |
| 50 | 0 | 0 | 0 | 0.629 | 17.98 | 705 | 17.91 | 708 |
| 60 | 0 | 0 | 0 | 0.629 | 18.11 | 700 | 18.04 | 703 |
| 70 | 0 | 0 | 0 | 0.629 | 18.24 | 696 | 18.17 | 698 |
| 80 | 0 | 0 | 0 | 0.629 | 18.36 | 691 | 18.3 | 693 |
| 90 | 0 | 0 | 0 | 0.629 | 18.49 | 686 | 18.42 | 689 |
| 100 | 0 | 0 | 0 | 0.629 | 18.61 | 682 | 18.55 | 684 |
| 110 | 0 | 0 | 0 | 0.629 | 18.73 | 677 | 18.68 | 680 |
| 120 | 0 | 0 | 0 | 0.629 | 18.86 | 673 | 18.8 | 675 |
| 130 | 0 | 0 | 0 | 0.629 | 18.98 | 669 | 18.93 | 671 |
| 167 | 0 | 0 | 0 | 0.629 | 19.42 | 654 | 19.35 | 656 |
| 212 | 0 | 0 | 0 | 0.629 | 19.9 | 638 | 19.84 | 640 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 1.907 | 30.24 | 2000 | 30.24 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 28.59 | 697 | 28.51 | 698 |
| 30 | 0 | 0 | 0 | 0.629 | 28.72 | 694 | 28.64 | 695 |
| 40 | 0 | 0 | 0 | 0.629 | 28.84 | 691 | 28.77 | 692 |
| 50 | 0 | 0 | 0 | 0.629 | 28.97 | 688 | 28.9 | 689 |
| 60 | 0 | 0 | 0 | 0.629 | 29.1 | 685 | 29.03 | 686 |
| 70 | 0 | 0 | 0 | 0.629 | 29.22 | 682 | 29.15 | 683 |
| 80 | 0 | 0 | 0 | 0.629 | 29.35 | 679 | 29.28 | 681 |
| 90 | 0 | 0 | 0 | 0.629 | 29.47 | 676 | 29.41 | 678 |
| 100 | 0 | 0 | 0 | 0.629 | 29.6 | 673 | 29.53 | 675 |
| 110 | 0 | 0 | 0 | 0.629 | 29.72 | 671 | 29.66 | 672 |
| 120 | 0 | 0 | 0 | 0.629 | 29.84 | 668 | 29.79 | 669 |
| 130 | 0 | 0 | 0 | 0.629 | 29.96 | 665 | 29.91 | 667 |
| 167 | 0 | 0 | 0 | 0.629 | 30.41 | 656 | 30.34 | 657 |
| 212 | 0 | 0 | 0 | 0.629 | 30.9 | 646 | 30.84 | 647 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 |
| 125.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 |
| 150.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-7 |
| 200.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-3 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 |
| 100.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 125.00 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 |
| 150.00 | 1-0 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 |
| 175.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 |
| 200.00 | 1-8 | 1-10 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 |
| 125.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 |
| 150.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 175.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 200.00 | 3-1 | 3-3 | 3-5 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 |
| 225.00 | 3-11 | 4-1 | 4-3 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-3 | 5-4 |
| 250.00 | 4-11 | 5-1 | 5-3 | 5-6 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-10 | 0-10 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 |
| 125.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 |
| 150.00 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 |
| 175.00 | 2-5 | 2-6 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 200.00 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 |
| 225.00 | 4-0 | 4-2 | 4-4 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 |
| 250.00 | 5-0 | 5-2 | 5-5 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 | 6-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 |
| 175.00 | 3-1 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 200.00 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 |
| 225.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-8 | 5-9 |
| 250.00 | 6-3 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 275.00 | 7-7 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 |
| 300.00 | 9-1 | 9-2 | 9-4 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-3 |
| 325.00 | 10-8 | 10-9 | 10-11 | 11-1 | 11-3 | 11-5 | 11-7 | 11-8 | 11-10 | 12-0 |
| 350.00 | 12-4 | 12-6 | 12-8 | 12-10 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 |
| 375.00 | 14-2 | 14-4 | 14-7 | 14-9 | 15-0 | 15-2 | 15-5 | 15-7 | 15-9 | 16-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 |
| 175.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 200.00 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 |
| 225.00 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 |
| 250.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-2 |
| 275.00 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 |
| 300.00 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 |
| 325.00 | 10-9 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-9 | 11-11 | 12-1 |
| 350.00 | 12-5 | 12-7 | 12-9 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 |
| 375.00 | 14-3 | 14-6 | 14-8 | 14-11 | 15-1 | 15-4 | 15-6 | 15-8 | 15-11 | 16-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 |
| 225.00 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 |
| 250.00 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 |
| 275.00 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 |
| 300.00 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 |
| 325.00 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 |
| 350.00 | 13-5 | 13-6 | 13-7 | 13-8 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 |
| 375.00 | 15-5 | 15-6 | 15-7 | 15-9 | 15-10 | 16-0 | 16-1 | 16-2 | 16-4 | 16-5 |
| 400.00 | 17-6 | 17-8 | 17-9 | 17-11 | 18-0 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 |
| 425.00 | 19-9 | 19-11 | 20-1 | 20-3 | 20-4 | 20-6 | 20-8 | 20-10 | 20-11 | 21-1 |
| 450.00 | 22-2 | 22-4 | 22-6 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 |
| 475.00 | 24-9 | 24-11 | 25-1 | 25-3 | 25-6 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 |
| 500.00 | 27-5 | 27-7 | 27-10 | 28-0 | 28-3 | 28-5 | 28-8 | 28-10 | 29-0 | 29-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 |
| 225.00 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 |
| 250.00 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 |
| 275.00 | 8-4 | 8-4 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 |
| 300.00 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 |
| 325.00 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 |
| 350.00 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-4 |
| 375.00 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 |
| 400.00 | 17-7 | 17-9 | 17-10 | 18-0 | 18-1 | 18-3 | 18-4 | 18-6 | 18-7 | 18-9 |
| 425.00 | 19-10 | 20-0 | 20-2 | 20-4 | 20-5 | 20-7 | 20-9 | 20-11 | 21-0 | 21-2 |
| 450.00 | 22-3 | 22-5 | 22-7 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 |
| 475.00 | 24-10 | 25-0 | 25-2 | 25-5 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 |
| 500.00 | 27-6 | 27-9 | 27-11 | 28-2 | 28-4 | 28-6 | 28-9 | 28-11 | 29-2 | 29-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.142

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 |
| 275.00 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 |
| 300.00 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 |
| 325.00 | 12-0 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 |
| 350.00 | 13-11 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-5 | 14-5 | 14-6 |
| 375.00 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 |
| 400.00 | 18-3 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-9 | 18-10 | 18-11 |
| 425.00 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 | 21-5 |
| 450.00 | 23-1 | 23-2 | 23-3 | 23-5 | 23-6 | 23-7 | 23-8 | 23-10 | 23-11 | 24-0 |
| 475.00 | 25-9 | 25-10 | 25-11 | 26-1 | 26-2 | 26-4 | 26-5 | 26-6 | 26-8 | 26-9 |
| 500.00 | 28-6 | 28-8 | 28-9 | 28-11 | 29-0 | 29-2 | 29-3 | 29-5 | 29-6 | 29-8 |
| 525.00 | 31-5 | 31-7 | 31-9 | 31-10 | 32-0 | 32-2 | 32-4 | 32-5 | 32-7 | 32-9 |
| 550.00 | 34-6 | 34-8 | 34-10 | 35-0 | 35-2 | 35-4 | 35-6 | 35-7 | 35-9 | 35-11 |
| 575.00 | 37-9 | 37-11 | 38-1 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-1 | 39-3 |
| 600.00 | 41-2 | 41-4 | 41-6 | 41-8 | 41-11 | 42-1 | 42-3 | 42-5 | 42-7 | 42-10 |
| 625.00 | 44-8 | 44-10 | 45-1 | 45-3 | 45-6 | 45-8 | 45-10 | 46-1 | 46-3 | 46-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 |
| 275.00 | 8-7 | 8-8 | 8-8 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 |
| 300.00 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 |
| 325.00 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 |
| 350.00 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 |
| 375.00 | 16-1 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 |
| 400.00 | 18-3 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 |
| 425.00 | 20-8 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 |
| 450.00 | 23-2 | 23-3 | 23-4 | 23-5 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 24-1 |
| 475.00 | 25-10 | 25-11 | 26-0 | 26-2 | 26-3 | 26-4 | 26-6 | 26-7 | 26-8 | 26-10 |
| 500.00 | 28-7 | 28-9 | 28-10 | 29-0 | 29-1 | 29-3 | 29-4 | 29-6 | 29-7 | 29-9 |
| 525.00 | 31-6 | 31-8 | 31-10 | 31-11 | 32-1 | 32-3 | 32-4 | 32-6 | 32-8 | 32-9 |
| 550.00 | 34-8 | 34-9 | 34-11 | 35-1 | 35-3 | 35-5 | 35-7 | 35-8 | 35-10 | 36-0 |
| 575.00 | 37-10 | 38-0 | 38-2 | 38-4 | 38-6 | 38-8 | 38-10 | 39-0 | 39-2 | 39-4 |
| 600.00 | 41-3 | 41-5 | 41-7 | 41-10 | 42-0 | 42-2 | 42-4 | 42-6 | 42-8 | 42-11 |
| 625.00 | 44-9 | 45-0 | 45-2 | 45-5 | 45-7 | 45-9 | 46-0 | 46-2 | 46-4 | 46-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 2.39 | 1000 | 2.39 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 1.94 | 405 | 1.92 | 410 |
| 30 | 0 | 0 | 0 | 0.629 | 2.14 | 368 | 2.12 | 372 |
| 40 | 0 | 0 | 0 | 0.629 | 2.2 | 358 | 2.18 | 361 |
| 50 | 0 | 0 | 0 | 0.629 | 2.26 | 348 | 2.25 | 351 |
| 60 | 0 | 0 | 0 | 0.629 | 2.32 | 339 | 2.31 | 341 |
| 70 | 0 | 0 | 0 | 0.629 | 2.38 | 331 | 2.37 | 333 |
| 80 | 0 | 0 | 0 | 0.629 | 2.44 | 323 | 2.43 | 325 |
| 90 | 0 | 0 | 0 | 0.629 | 2.5 | 316 | 2.49 | 317 |
| 100 | 0 | 0 | 0 | 0.629 | 2.55 | 309 | 2.54 | 310 |
| 110 | 0 | 0 | 0 | 0.629 | 2.61 | 302 | 2.59 | 304 |
| 120 | 0 | 0 | 0 | 0.629 | 2.66 | 296 | 2.64 | 299 |
| 130 | 0 | 0 | 0 | 0.629 | 2.71 | 291 | 2.69 | 293 |
| 167 | 0 | 0 | 0 | 0.629 | 2.88 | 274 | 2.86 | 276 |
| 212 | 0 | 0 | 0 | 0.629 | 3.08 | 256 | 3.06 | 258 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 9.63 | 1000 | 9.63 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 9.18 | 345 | 9.16 | 346 |
| 30 | 0 | 0 | 0 | 0.629 | 9.37 | 339 | 9.35 | 339 |
| 40 | 0 | 0 | 0 | 0.629 | 9.43 | 336 | 9.41 | 337 |
| 50 | 0 | 0 | 0 | 0.629 | 9.49 | 334 | 9.48 | 335 |
| 60 | 0 | 0 | 0 | 0.629 | 9.56 | 332 | 9.54 | 333 |
| 70 | 0 | 0 | 0 | 0.629 | 9.62 | 330 | 9.6 | 331 |
| 80 | 0 | 0 | 0 | 0.629 | 9.68 | 328 | 9.67 | 328 |
| 90 | 0 | 0 | 0 | 0.629 | 9.74 | 326 | 9.73 | 326 |
| 100 | 0 | 0 | 0 | 0.629 | 9.8 | 324 | 9.79 | 324 |
| 110 | 0 | 0 | 0 | 0.629 | 9.86 | 322 | 9.84 | 323 |
| 120 | 0 | 0 | 0 | 0.629 | 9.92 | 320 | 9.9 | 321 |
| 130 | 0 | 0 | 0 | 0.629 | 9.97 | 318 | 9.95 | 319 |
| 167 | 0 | 0 | 0 | 0.629 | 10.17 | 312 | 10.15 | 313 |
| 212 | 0 | 0 | 0 | 0.629 | 10.41 | 305 | 10.38 | 306 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 21.92 | 1000 | 21.92 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 21.47 | 336 | 21.45 | 337 |
| 30 | 0 | 0 | 0 | 0.629 | 21.66 | 333 | 21.64 | 334 |
| 40 | 0 | 0 | 0 | 0.629 | 21.72 | 333 | 21.71 | 333 |
| 50 | 0 | 0 | 0 | 0.629 | 21.79 | 332 | 21.77 | 332 |
| 60 | 0 | 0 | 0 | 0.629 | 21.85 | 331 | 21.83 | 331 |
| 70 | 0 | 0 | 0 | 0.629 | 21.91 | 330 | 21.89 | 330 |
| 80 | 0 | 0 | 0 | 0.629 | 21.97 | 329 | 21.96 | 329 |
| 90 | 0 | 0 | 0 | 0.629 | 22.03 | 328 | 22.02 | 328 |
| 100 | 0 | 0 | 0 | 0.629 | 22.09 | 327 | 22.08 | 327 |
| 110 | 0 | 0 | 0 | 0.629 | 22.15 | 326 | 22.14 | 327 |
| 120 | 0 | 0 | 0 | 0.629 | 22.21 | 326 | 22.2 | 326 |
| 130 | 0 | 0 | 0 | 0.629 | 22.27 | 325 | 22.25 | 325 |
| 167 | 0 | 0 | 0 | 0.629 | 22.48 | 322 | 22.45 | 322 |
| 212 | 0 | 0 | 0 | 0.629 | 22.72 | 319 | 22.7 | 319 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 39.65 | 1000 | 39.65 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 39.21 | 333 | 39.19 | 333 |
| 30 | 0 | 0 | 0 | 0.629 | 39.4 | 332 | 39.38 | 332 |
| 40 | 0 | 0 | 0 | 0.629 | 39.46 | 331 | 39.44 | 331 |
| 50 | 0 | 0 | 0 | 0.629 | 39.52 | 331 | 39.5 | 331 |
| 60 | 0 | 0 | 0 | 0.629 | 39.58 | 330 | 39.57 | 330 |
| 70 | 0 | 0 | 0 | 0.629 | 39.64 | 330 | 39.63 | 330 |
| 80 | 0 | 0 | 0 | 0.629 | 39.71 | 329 | 39.69 | 329 |
| 90 | 0 | 0 | 0 | 0.629 | 39.77 | 329 | 39.76 | 329 |
| 100 | 0 | 0 | 0 | 0.629 | 39.83 | 328 | 39.82 | 329 |
| 110 | 0 | 0 | 0 | 0.629 | 39.89 | 328 | 39.88 | 328 |
| 120 | 0 | 0 | 0 | 0.629 | 39.95 | 327 | 39.93 | 328 |
| 130 | 0 | 0 | 0 | 0.629 | 40.01 | 327 | 39.99 | 327 |
| 167 | 0 | 0 | 0 | 0.629 | 40.21 | 326 | 40.19 | 326 |
| 212 | 0 | 0 | 0 | 0.629 | 40.46 | 324 | 40.44 | 324 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 63.47 | 1000 | 63.47 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 63.03 | 332 | 63 | 332 |
| 30 | 0 | 0 | 0 | 0.629 | 63.21 | 331 | 63.19 | 331 |
| 40 | 0 | 0 | 0 | 0.629 | 63.27 | 331 | 63.26 | 331 |
| 50 | 0 | 0 | 0 | 0.629 | 63.34 | 330 | 63.32 | 330 |
| 60 | 0 | 0 | 0 | 0.629 | 63.4 | 330 | 63.38 | 330 |
| 70 | 0 | 0 | 0 | 0.629 | 63.46 | 330 | 63.44 | 330 |
| 80 | 0 | 0 | 0 | 0.629 | 63.52 | 330 | 63.51 | 330 |
| 90 | 0 | 0 | 0 | 0.629 | 63.58 | 329 | 63.57 | 329 |
| 100 | 0 | 0 | 0 | 0.629 | 63.64 | 329 | 63.63 | 329 |
| 110 | 0 | 0 | 0 | 0.629 | 63.7 | 329 | 63.69 | 329 |
| 120 | 0 | 0 | 0 | 0.629 | 63.77 | 328 | 63.75 | 329 |
| 130 | 0 | 0 | 0 | 0.629 | 63.82 | 328 | 63.8 | 328 |
| 167 | 0 | 0 | 0 | 0.629 | 64.03 | 327 | 64.01 | 327 |
| 212 | 0 | 0 | 0 | 0.629 | 64.28 | 326 | 64.26 | 326 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 |
| 100.00 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 |
| 125.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-1 |
| 150.00 | 4-8 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 |
| 175.00 | 6-4 | 6-6 | 6-8 | 6-11 | 7-1 | 7-3 | 7-5 | 7-8 | 7-10 | 7-11 |
| 200.00 | 8-3 | 8-6 | 8-9 | 9-0 | 9-3 | 9-6 | 9-9 | 10-0 | 10-2 | 10-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 |
| 100.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 |
| 125.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 150.00 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 |
| 175.00 | 6-4 | 6-7 | 6-9 | 6-11 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 |
| 200.00 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 | 10-0 | 10-3 | 10-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-4 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 |
| 125.00 | 3-7 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 |
| 150.00 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 |
| 175.00 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 |
| 200.00 | 9-3 | 9-4 | 9-5 | 9-6 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 |
| 225.00 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 |
| 250.00 | 14-6 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-2 | 15-3 | 15-4 | 15-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-4 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 | 2-6 |
| 125.00 | 3-8 | 3-8 | 3-8 | 3-8 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 |
| 150.00 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 |
| 175.00 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 |
| 200.00 | 9-4 | 9-4 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-10 | 9-10 |
| 225.00 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 |
| 250.00 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-4 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 | 5-6 |
| 175.00 | 7-4 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 |
| 200.00 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 |
| 225.00 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 |
| 250.00 | 14-11 | 15-0 | 15-0 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 |
| 275.00 | 18-1 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-5 | 18-6 | 18-6 | 18-7 |
| 300.00 | 21-7 | 21-8 | 21-8 | 21-9 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-2 |
| 325.00 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-10 | 25-11 | 26-0 |
| 350.00 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 |
| 375.00 | 33-10 | 33-11 | 34-1 | 34-2 | 34-3 | 34-4 | 34-5 | 34-7 | 34-8 | 34-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-4 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 | 5-6 |
| 175.00 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 |
| 200.00 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-10 |
| 225.00 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 |
| 250.00 | 15-0 | 15-0 | 15-1 | 15-1 | 15-2 | 15-2 | 15-3 | 15-3 | 15-4 | 15-4 |
| 275.00 | 18-2 | 18-2 | 18-3 | 18-3 | 18-4 | 18-5 | 18-5 | 18-6 | 18-7 | 18-7 |
| 300.00 | 21-7 | 21-8 | 21-9 | 21-9 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 |
| 325.00 | 25-5 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 | 26-0 | 26-0 |
| 350.00 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 |
| 375.00 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-4 | 34-6 | 34-7 | 34-8 | 34-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.149

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-9 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 | 9-10 | 9-10 |
| 225.00 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 |
| 250.00 | 15-3 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 | 15-5 |
| 275.00 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 | 18-8 | 18-8 | 18-8 | 18-9 |
| 300.00 | 22-0 | 22-0 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 | 22-4 |
| 325.00 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-1 | 26-2 | 26-2 | 26-3 |
| 350.00 | 30-0 | 30-1 | 30-1 | 30-2 | 30-2 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 |
| 375.00 | 34-6 | 34-7 | 34-7 | 34-8 | 34-9 | 34-9 | 34-10 | 34-11 | 34-11 | 35-0 |
| 400.00 | 39-4 | 39-5 | 39-5 | 39-6 | 39-7 | 39-8 | 39-8 | 39-9 | 39-10 | 39-11 |
| 425.00 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 44-11 | 45-0 | 45-1 |
| 450.00 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 |
| 475.00 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-2 | 56-3 | 56-4 | 56-5 | 56-6 |
| 500.00 | 61-10 | 62-0 | 62-1 | 62-2 | 62-3 | 62-4 | 62-6 | 62-7 | 62-8 | 62-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 9-9 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 | 9-10 | 9-11 |
| 225.00 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 |
| 250.00 | 15-3 | 15-3 | 15-4 | 15-4 | 15-4 | 15-4 | 15-5 | 15-5 | 15-5 | 15-6 |
| 275.00 | 18-6 | 18-6 | 18-6 | 18-7 | 18-7 | 18-7 | 18-8 | 18-8 | 18-8 | 18-9 |
| 300.00 | 22-0 | 22-0 | 22-1 | 22-1 | 22-2 | 22-2 | 22-3 | 22-3 | 22-3 | 22-4 |
| 325.00 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-1 | 26-2 | 26-2 | 26-3 |
| 350.00 | 30-0 | 30-1 | 30-1 | 30-2 | 30-3 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 |
| 375.00 | 34-6 | 34-7 | 34-8 | 34-8 | 34-9 | 34-9 | 34-10 | 34-11 | 34-11 | 35-0 |
| 400.00 | 39-4 | 39-5 | 39-6 | 39-6 | 39-7 | 39-8 | 39-8 | 39-9 | 39-10 | 39-11 |
| 425.00 | 44-6 | 44-7 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-0 | 45-1 |
| 450.00 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 |
| 475.00 | 55-9 | 55-10 | 55-11 | 56-0 | 56-1 | 56-2 | 56-3 | 56-4 | 56-6 | 56-7 |
| 500.00 | 61-11 | 62-0 | 62-1 | 62-2 | 62-3 | 62-5 | 62-6 | 62-7 | 62-8 | 62-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-7 | 15-7 | 15-7 | 15-7 | 15-7 | 15-7 | 15-8 | 15-8 | 15-8 | 15-8 |
| 275.00 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 | 18-11 | 19-0 | 19-0 |
| 300.00 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-7 | 22-7 | 22-7 | 22-8 |
| 325.00 | 26-4 | 26-5 | 26-5 | 26-5 | 26-6 | 26-6 | 26-6 | 26-6 | 26-7 | 26-7 |
| 350.00 | 30-7 | 30-8 | 30-8 | 30-8 | 30-9 | 30-9 | 30-10 | 30-10 | 30-10 | 30-11 |
| 375.00 | 35-2 | 35-3 | 35-3 | 35-4 | 35-4 | 35-4 | 35-5 | 35-5 | 35-6 | 35-6 |
| 400.00 | 40-1 | 40-2 | 40-2 | 40-3 | 40-3 | 40-4 | 40-4 | 40-5 | 40-5 | 40-6 |
| 425.00 | 45-4 | 45-5 | 45-5 | 45-6 | 45-6 | 45-7 | 45-7 | 45-8 | 45-9 | 45-9 |
| 450.00 | 50-11 | 51-0 | 51-0 | 51-1 | 51-2 | 51-2 | 51-3 | 51-3 | 51-4 | 51-5 |
| 475.00 | 56-10 | 56-11 | 57-0 | 57-0 | 57-1 | 57-2 | 57-2 | 57-3 | 57-4 | 57-4 |
| 500.00 | 63-2 | 63-2 | 63-3 | 63-4 | 63-5 | 63-5 | 63-6 | 63-7 | 63-8 | 63-8 |
| 525.00 | 69-9 | 69-10 | 69-11 | 69-11 | 70-0 | 70-1 | 70-2 | 70-3 | 70-4 | 70-4 |
| 550.00 | 76-9 | 76-9 | 76-10 | 76-11 | 77-0 | 77-1 | 77-2 | 77-3 | 77-4 | 77-5 |
| 575.00 | 84-0 | 84-1 | 84-2 | 84-4 | 84-5 | 84-6 | 84-7 | 84-8 | 84-9 | 84-10 |
| 600.00 | 91-9 | 91-10 | 91-11 | 92-0 | 92-1 | 92-2 | 92-3 | 92-4 | 92-6 | 92-7 |
| 625.00 | 99-9 | 99-10 | 100-0 | 100-1 | 100-2 | 100-3 | 100-5 | 100-6 | 100-7 | 100-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 15-7 | 15-7 | 15-7 | 15-7 | 15-7 | 15-7 | 15-8 | 15-8 | 15-8 | 15-8 |
| 275.00 | 18-10 | 18-10 | 18-10 | 18-11 | 18-11 | 18-11 | 18-11 | 19-0 | 19-0 | 19-0 |
| 300.00 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-7 | 22-7 | 22-7 | 22-7 | 22-8 |
| 325.00 | 26-4 | 26-5 | 26-5 | 26-5 | 26-6 | 26-6 | 26-6 | 26-7 | 26-7 | 26-7 |
| 350.00 | 30-7 | 30-8 | 30-8 | 30-9 | 30-9 | 30-9 | 30-10 | 30-10 | 30-10 | 30-11 |
| 375.00 | 35-2 | 35-3 | 35-3 | 35-4 | 35-4 | 35-5 | 35-5 | 35-5 | 35-6 | 35-6 |
| 400.00 | 40-1 | 40-2 | 40-2 | 40-3 | 40-3 | 40-4 | 40-4 | 40-5 | 40-5 | 40-6 |
| 425.00 | 45-4 | 45-5 | 45-5 | 45-6 | 45-7 | 45-7 | 45-8 | 45-8 | 45-9 | 45-9 |
| 450.00 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-2 | 51-3 | 51-4 | 51-4 | 51-5 |
| 475.00 | 56-11 | 56-11 | 57-0 | 57-1 | 57-1 | 57-2 | 57-3 | 57-3 | 57-4 | 57-5 |
| 500.00 | 63-2 | 63-3 | 63-3 | 63-4 | 63-5 | 63-6 | 63-6 | 63-7 | 63-8 | 63-8 |
| 525.00 | 69-9 | 69-10 | 69-11 | 70-0 | 70-1 | 70-1 | 70-2 | 70-3 | 70-4 | 70-5 |
| 550.00 | 76-9 | 76-10 | 76-11 | 77-0 | 77-0 | 77-1 | 77-2 | 77-3 | 77-4 | 77-5 |
| 575.00 | 84-1 | 84-2 | 84-3 | 84-4 | 84-5 | 84-6 | 84-7 | 84-8 | 84-9 | 84-10 |
| 600.00 | 91-9 | 91-10 | 91-11 | 92-0 | 92-1 | 92-3 | 92-4 | 92-5 | 92-6 | 92-7 |
| 625.00 | 99-10 | 99-11 | 100-0 | 100-1 | 100-2 | 100-4 | 100-5 | 100-6 | 100-7 | 100-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 1.59 | 1500 | 1.59 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 0.83 | 947 | 0.81 | 968 |
| 30 | 0 | 0 | 0 | 0.629 | 1.06 | 744 | 1.03 | 764 |
| 40 | 0 | 0 | 0 | 0.629 | 1.14 | 691 | 1.11 | 709 |
| 50 | 0 | 0 | 0 | 0.629 | 1.22 | 645 | 1.19 | 662 |
| 60 | 0 | 0 | 0 | 0.629 | 1.3 | 605 | 1.27 | 619 |
| 70 | 0 | 0 | 0 | 0.629 | 1.38 | 570 | 1.35 | 582 |
| 80 | 0 | 0 | 0 | 0.629 | 1.46 | 539 | 1.43 | 550 |
| 90 | 0 | 0 | 0 | 0.629 | 1.54 | 512 | 1.51 | 521 |
| 100 | 0 | 0 | 0 | 0.629 | 1.61 | 487 | 1.59 | 495 |
| 110 | 0 | 0 | 0 | 0.629 | 1.69 | 466 | 1.67 | 473 |
| 120 | 0 | 0 | 0 | 0.629 | 1.76 | 447 | 1.74 | 453 |
| 130 | 0 | 0 | 0 | 0.629 | 1.83 | 429 | 1.8 | 437 |
| 167 | 0 | 0 | 0 | 0.629 | 2.06 | 382 | 2.03 | 388 |
| 212 | 0 | 0 | 0 | 0.629 | 2.32 | 340 | 2.28 | 345 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 6.38 | 1500 | 6.38 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 5.48 | 576 | 5.43 | 581 |
| 30 | 0 | 0 | 0 | 0.629 | 5.77 | 547 | 5.73 | 551 |
| 40 | 0 | 0 | 0 | 0.629 | 5.87 | 538 | 5.82 | 542 |
| 50 | 0 | 0 | 0 | 0.629 | 5.96 | 530 | 5.92 | 533 |
| 60 | 0 | 0 | 0 | 0.629 | 6.05 | 522 | 6.01 | 525 |
| 70 | 0 | 0 | 0 | 0.629 | 6.14 | 514 | 6.11 | 517 |
| 80 | 0 | 0 | 0 | 0.629 | 6.23 | 506 | 6.2 | 509 |
| 90 | 0 | 0 | 0 | 0.629 | 6.32 | 499 | 6.29 | 502 |
| 100 | 0 | 0 | 0 | 0.629 | 6.41 | 493 | 6.38 | 495 |
| 110 | 0 | 0 | 0 | 0.629 | 6.5 | 486 | 6.47 | 488 |
| 120 | 0 | 0 | 0 | 0.629 | 6.58 | 480 | 6.56 | 482 |
| 130 | 0 | 0 | 0 | 0.629 | 6.67 | 474 | 6.64 | 476 |
| 167 | 0 | 0 | 0 | 0.629 | 6.96 | 454 | 6.92 | 457 |
| 212 | 0 | 0 | 0 | 0.629 | 7.29 | 434 | 7.25 | 436 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 14.44 | 1500 | 14.44 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 13.53 | 527 | 13.48 | 529 |
| 30 | 0 | 0 | 0 | 0.629 | 13.82 | 516 | 13.77 | 518 |
| 40 | 0 | 0 | 0 | 0.629 | 13.91 | 513 | 13.87 | 515 |
| 50 | 0 | 0 | 0 | 0.629 | 14.01 | 510 | 13.97 | 511 |
| 60 | 0 | 0 | 0 | 0.629 | 14.1 | 506 | 14.06 | 508 |
| 70 | 0 | 0 | 0 | 0.629 | 14.19 | 503 | 14.16 | 504 |
| 80 | 0 | 0 | 0 | 0.629 | 14.28 | 500 | 14.25 | 501 |
| 90 | 0 | 0 | 0 | 0.629 | 14.38 | 497 | 14.34 | 498 |
| 100 | 0 | 0 | 0 | 0.629 | 14.47 | 494 | 14.44 | 495 |
| 110 | 0 | 0 | 0 | 0.629 | 14.56 | 491 | 14.53 | 492 |
| 120 | 0 | 0 | 0 | 0.629 | 14.65 | 488 | 14.62 | 489 |
| 130 | 0 | 0 | 0 | 0.629 | 14.74 | 485 | 14.7 | 486 |
| 167 | 0 | 0 | 0 | 0.629 | 15.04 | 475 | 15 | 476 |
| 212 | 0 | 0 | 0 | 0.629 | 15.4 | 464 | 15.36 | 466 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 25.86 | 1500 | 25.86 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 24.96 | 512 | 24.91 | 513 |
| 30 | 0 | 0 | 0 | 0.629 | 25.24 | 506 | 25.19 | 507 |
| 40 | 0 | 0 | 0 | 0.629 | 25.33 | 505 | 25.29 | 505 |
| 50 | 0 | 0 | 0 | 0.629 | 25.42 | 503 | 25.38 | 504 |
| 60 | 0 | 0 | 0 | 0.629 | 25.52 | 501 | 25.48 | 502 |
| 70 | 0 | 0 | 0 | 0.629 | 25.61 | 499 | 25.57 | 500 |
| 80 | 0 | 0 | 0 | 0.629 | 25.7 | 498 | 25.67 | 498 |
| 90 | 0 | 0 | 0 | 0.629 | 25.79 | 496 | 25.76 | 496 |
| 100 | 0 | 0 | 0 | 0.629 | 25.89 | 494 | 25.85 | 495 |
| 110 | 0 | 0 | 0 | 0.629 | 25.98 | 492 | 25.95 | 493 |
| 120 | 0 | 0 | 0 | 0.629 | 26.07 | 491 | 26.04 | 491 |
| 130 | 0 | 0 | 0 | 0.629 | 26.16 | 489 | 26.13 | 490 |
| 167 | 0 | 0 | 0 | 0.629 | 26.47 | 484 | 26.43 | 484 |
| 212 | 0 | 0 | 0 | 0.629 | 26.84 | 477 | 26.8 | 478 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 40.8 | 1500 | 40.8 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 39.9 | 505 | 39.85 | 506 |
| 30 | 0 | 0 | 0 | 0.629 | 40.18 | 502 | 40.13 | 502 |
| 40 | 0 | 0 | 0 | 0.629 | 40.27 | 501 | 40.23 | 501 |
| 50 | 0 | 0 | 0 | 0.629 | 40.36 | 500 | 40.32 | 500 |
| 60 | 0 | 0 | 0 | 0.629 | 40.46 | 499 | 40.42 | 499 |
| 70 | 0 | 0 | 0 | 0.629 | 40.55 | 498 | 40.51 | 498 |
| 80 | 0 | 0 | 0 | 0.629 | 40.64 | 496 | 40.61 | 497 |
| 90 | 0 | 0 | 0 | 0.629 | 40.73 | 495 | 40.7 | 496 |
| 100 | 0 | 0 | 0 | 0.629 | 40.83 | 494 | 40.79 | 495 |
| 110 | 0 | 0 | 0 | 0.629 | 40.92 | 493 | 40.89 | 494 |
| 120 | 0 | 0 | 0 | 0.629 | 41.01 | 492 | 40.98 | 493 |
| 130 | 0 | 0 | 0 | 0.629 | 41.1 | 491 | 41.07 | 492 |
| 167 | 0 | 0 | 0 | 0.629 | 41.42 | 488 | 41.38 | 488 |
| 212 | 0 | 0 | 0 | 0.629 | 41.79 | 484 | 41.75 | 484 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 |
| 150.00 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 |
| 175.00 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-8 | 4-10 | 5-1 |
| 200.00 | 3-10 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-1 | 6-4 | 6-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 |
| 125.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 150.00 | 2-2 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 | 3-10 |
| 175.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-9 | 4-11 | 5-2 |
| 200.00 | 3-11 | 4-3 | 4-7 | 4-11 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 |
| 150.00 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 |
| 175.00 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 4-11 |
| 200.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-5 | 6-6 |
| 225.00 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 |
| 250.00 | 8-10 | 8-11 | 9-1 | 9-3 | 9-5 | 9-7 | 9-8 | 9-10 | 10-0 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 |
| 150.00 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 |
| 175.00 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 |
| 200.00 | 5-8 | 5-9 | 5-10 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 |
| 225.00 | 7-2 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 | 8-3 |
| 250.00 | 8-10 | 9-0 | 9-2 | 9-4 | 9-6 | 9-7 | 9-9 | 9-11 | 10-0 | 10-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 | 3-7 |
| 175.00 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-10 | 4-11 | 4-11 |
| 200.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 |
| 225.00 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 |
| 250.00 | 9-6 | 9-7 | 9-7 | 9-8 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 |
| 275.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 |
| 300.00 | 13-8 | 13-9 | 13-10 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 |
| 325.00 | 16-1 | 16-2 | 16-3 | 16-5 | 16-6 | 16-7 | 16-9 | 16-10 | 16-11 | 17-1 |
| 350.00 | 18-8 | 18-9 | 18-11 | 19-0 | 19-2 | 19-3 | 19-5 | 19-7 | 19-8 | 19-10 |
| 375.00 | 21-5 | 21-7 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-5 | 22-7 | 22-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-5 | 3-5 | 3-6 | 3-6 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 | 3-8 |
| 175.00 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 | 4-10 | 4-10 | 4-11 | 4-11 | 4-11 |
| 200.00 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 |
| 225.00 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 |
| 250.00 | 9-6 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 |
| 275.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 |
| 300.00 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-5 | 14-6 | 14-7 |
| 325.00 | 16-1 | 16-3 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 | 16-11 | 17-0 | 17-1 |
| 350.00 | 18-8 | 18-10 | 18-11 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 |
| 375.00 | 21-6 | 21-8 | 21-9 | 21-11 | 22-1 | 22-3 | 22-4 | 22-6 | 22-8 | 22-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-6 |
| 225.00 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 |
| 250.00 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 |
| 275.00 | 11-10 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 |
| 300.00 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-7 |
| 325.00 | 16-6 | 16-7 | 16-8 | 16-9 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 |
| 350.00 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 |
| 375.00 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-9 |
| 400.00 | 25-1 | 25-2 | 25-3 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 |
| 425.00 | 28-4 | 28-6 | 28-7 | 28-8 | 28-9 | 28-11 | 29-0 | 29-1 | 29-2 | 29-4 |
| 450.00 | 31-10 | 31-11 | 32-1 | 32-2 | 32-3 | 32-5 | 32-6 | 32-8 | 32-9 | 32-11 |
| 475.00 | 35-6 | 35-7 | 35-9 | 35-10 | 36-0 | 36-2 | 36-3 | 36-5 | 36-6 | 36-8 |
| 500.00 | 39-4 | 39-6 | 39-8 | 39-9 | 39-11 | 40-1 | 40-3 | 40-5 | 40-6 | 40-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-5 | 6-5 | 6-6 |
| 225.00 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 |
| 250.00 | 9-9 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 |
| 275.00 | 11-10 | 11-11 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 |
| 300.00 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 |
| 325.00 | 16-7 | 16-8 | 16-8 | 16-9 | 16-10 | 16-11 | 16-11 | 17-0 | 17-1 | 17-1 |
| 350.00 | 19-3 | 19-4 | 19-4 | 19-5 | 19-6 | 19-7 | 19-8 | 19-9 | 19-10 | 19-10 |
| 375.00 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 |
| 400.00 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-10 | 25-11 | 26-0 |
| 425.00 | 28-5 | 28-6 | 28-7 | 28-9 | 28-10 | 28-11 | 29-0 | 29-2 | 29-3 | 29-4 |
| 450.00 | 31-10 | 32-0 | 32-1 | 32-3 | 32-4 | 32-6 | 32-7 | 32-8 | 32-10 | 32-11 |
| 475.00 | 35-6 | 35-8 | 35-10 | 35-11 | 36-1 | 36-2 | 36-4 | 36-5 | 36-7 | 36-9 |
| 500.00 | 39-5 | 39-7 | 39-8 | 39-10 | 40-0 | 40-2 | 40-3 | 40-5 | 40-7 | 40-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-11 | 10-0 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 |
| 275.00 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 |
| 300.00 | 14-4 | 14-4 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-8 |
| 325.00 | 16-10 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 |
| 350.00 | 19-6 | 19-7 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 |
| 375.00 | 22-5 | 22-6 | 22-7 | 22-7 | 22-8 | 22-8 | 22-9 | 22-10 | 22-10 | 22-11 |
| 400.00 | 25-7 | 25-7 | 25-8 | 25-9 | 25-9 | 25-10 | 25-11 | 26-0 | 26-0 | 26-1 |
| 425.00 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-2 | 29-3 | 29-4 | 29-5 | 29-6 |
| 450.00 | 32-5 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 |
| 475.00 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 |
| 500.00 | 40-0 | 40-2 | 40-3 | 40-4 | 40-5 | 40-6 | 40-7 | 40-8 | 40-10 | 40-11 |
| 525.00 | 44-2 | 44-3 | 44-5 | 44-6 | 44-7 | 44-8 | 44-10 | 44-11 | 45-0 | 45-1 |
| 550.00 | 48-6 | 48-8 | 48-9 | 48-11 | 49-0 | 49-1 | 49-3 | 49-4 | 49-5 | 49-7 |
| 575.00 | 53-1 | 53-3 | 53-4 | 53-6 | 53-7 | 53-9 | 53-10 | 54-0 | 54-1 | 54-3 |
| 600.00 | 57-10 | 58-0 | 58-2 | 58-3 | 58-5 | 58-7 | 58-8 | 58-10 | 59-0 | 59-1 |
| 625.00 | 62-10 | 63-0 | 63-2 | 63-4 | 63-5 | 63-7 | 63-9 | 63-11 | 64-1 | 64-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 | 10-1 | 10-1 | 10-2 | 10-2 |
| 275.00 | 12-1 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 |
| 300.00 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 | 14-8 |
| 325.00 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-1 | 17-2 | 17-2 |
| 350.00 | 19-7 | 19-7 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 20-0 |
| 375.00 | 22-6 | 22-6 | 22-7 | 22-7 | 22-8 | 22-9 | 22-9 | 22-10 | 22-11 | 22-11 |
| 400.00 | 25-7 | 25-8 | 25-8 | 25-9 | 25-10 | 25-10 | 25-11 | 26-0 | 26-1 | 26-1 |
| 425.00 | 28-11 | 29-0 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-4 | 29-5 | 29-6 |
| 450.00 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 |
| 475.00 | 36-2 | 36-3 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 |
| 500.00 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 | 40-7 | 40-8 | 40-9 | 40-10 | 40-11 |
| 525.00 | 44-3 | 44-4 | 44-5 | 44-6 | 44-8 | 44-9 | 44-10 | 44-11 | 45-1 | 45-2 |
| 550.00 | 48-7 | 48-8 | 48-10 | 48-11 | 49-0 | 49-2 | 49-3 | 49-5 | 49-6 | 49-7 |
| 575.00 | 53-2 | 53-3 | 53-5 | 53-6 | 53-8 | 53-9 | 53-11 | 54-0 | 54-2 | 54-3 |
| 600.00 | 57-11 | 58-1 | 58-2 | 58-4 | 58-6 | 58-7 | 58-9 | 58-11 | 59-0 | 59-2 |
| 625.00 | 62-11 | 63-1 | 63-3 | 63-4 | 63-6 | 63-8 | 63-10 | 63-11 | 64-1 | 64-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 1.19 | 2000 | 1.19 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 0.46 | 1724 | 0.45 | 1738 |
| 30 | 0 | 0 | 0 | 0.629 | 0.57 | 1383 | 0.56 | 1417 |
| 40 | 0 | 0 | 0 | 0.629 | 0.62 | 1277 | 0.6 | 1314 |
| 50 | 0 | 0 | 0 | 0.629 | 0.67 | 1176 | 0.65 | 1215 |
| 60 | 0 | 0 | 0 | 0.629 | 0.73 | 1081 | 0.7 | 1121 |
| 70 | 0 | 0 | 0 | 0.629 | 0.79 | 994 | 0.76 | 1033 |
| 80 | 0 | 0 | 0 | 0.629 | 0.86 | 914 | 0.83 | 951 |
| 90 | 0 | 0 | 0 | 0.629 | 0.93 | 842 | 0.9 | 876 |
| 100 | 0 | 0 | 0 | 0.629 | 1.01 | 777 | 0.97 | 808 |
| 110 | 0 | 0 | 0 | 0.629 | 1.09 | 721 | 1.05 | 748 |
| 120 | 0 | 0 | 0 | 0.629 | 1.17 | 671 | 1.13 | 695 |
| 130 | 0 | 0 | 0 | 0.629 | 1.25 | 628 | 1.21 | 648 |
| 167 | 0 | 0 | 0 | 0.629 | 1.53 | 514 | 1.48 | 531 |
| 212 | 0 | 0 | 0 | 0.629 | 1.83 | 431 | 1.78 | 442 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 4.78 | 2000 | 4.78 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 3.31 | 950 | 3.24 | 970 |
| 30 | 0 | 0 | 0 | 0.629 | 3.69 | 853 | 3.62 | 869 |
| 40 | 0 | 0 | 0 | 0.629 | 3.82 | 825 | 3.75 | 840 |
| 50 | 0 | 0 | 0 | 0.629 | 3.94 | 799 | 3.87 | 814 |
| 60 | 0 | 0 | 0 | 0.629 | 4.06 | 776 | 3.99 | 789 |
| 70 | 0 | 0 | 0 | 0.629 | 4.18 | 754 | 4.11 | 766 |
| 80 | 0 | 0 | 0 | 0.629 | 4.3 | 733 | 4.23 | 744 |
| 90 | 0 | 0 | 0 | 0.629 | 4.41 | 714 | 4.35 | 724 |
| 100 | 0 | 0 | 0 | 0.629 | 4.53 | 696 | 4.47 | 705 |
| 110 | 0 | 0 | 0 | 0.629 | 4.64 | 679 | 4.58 | 688 |
| 120 | 0 | 0 | 0 | 0.629 | 4.75 | 663 | 4.7 | 671 |
| 130 | 0 | 0 | 0 | 0.629 | 4.86 | 649 | 4.81 | 656 |
| 167 | 0 | 0 | 0 | 0.629 | 5.24 | 602 | 5.18 | 609 |
| 212 | 0 | 0 | 0 | 0.629 | 5.64 | 559 | 5.59 | 565 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 10.78 | 2000 | 10.78 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 9.26 | 767 | 9.18 | 774 |
| 30 | 0 | 0 | 0 | 0.629 | 9.65 | 736 | 9.57 | 742 |
| 40 | 0 | 0 | 0 | 0.629 | 9.78 | 727 | 9.7 | 732 |
| 50 | 0 | 0 | 0 | 0.629 | 9.91 | 717 | 9.83 | 723 |
| 60 | 0 | 0 | 0 | 0.629 | 10.03 | 709 | 9.96 | 714 |
| 70 | 0 | 0 | 0 | 0.629 | 10.15 | 700 | 10.08 | 705 |
| 80 | 0 | 0 | 0 | 0.629 | 10.28 | 692 | 10.21 | 697 |
| 90 | 0 | 0 | 0 | 0.629 | 10.4 | 684 | 10.33 | 688 |
| 100 | 0 | 0 | 0 | 0.629 | 10.52 | 676 | 10.45 | 680 |
| 110 | 0 | 0 | 0 | 0.629 | 10.64 | 669 | 10.58 | 672 |
| 120 | 0 | 0 | 0 | 0.629 | 10.75 | 661 | 10.7 | 665 |
| 130 | 0 | 0 | 0 | 0.629 | 10.87 | 654 | 10.82 | 658 |
| 167 | 0 | 0 | 0 | 0.629 | 11.28 | 631 | 11.22 | 634 |
| 212 | 0 | 0 | 0 | 0.629 | 11.74 | 607 | 11.67 | 610 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 19.25 | 2000 | 19.25 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 17.73 | 715 | 17.64 | 719 |
| 30 | 0 | 0 | 0 | 0.629 | 18.11 | 700 | 18.03 | 703 |
| 40 | 0 | 0 | 0 | 0.629 | 18.24 | 696 | 18.16 | 699 |
| 50 | 0 | 0 | 0 | 0.629 | 18.36 | 691 | 18.28 | 694 |
| 60 | 0 | 0 | 0 | 0.629 | 18.49 | 686 | 18.41 | 689 |
| 70 | 0 | 0 | 0 | 0.629 | 18.61 | 682 | 18.54 | 684 |
| 80 | 0 | 0 | 0 | 0.629 | 18.73 | 677 | 18.66 | 680 |
| 90 | 0 | 0 | 0 | 0.629 | 18.86 | 673 | 18.79 | 675 |
| 100 | 0 | 0 | 0 | 0.629 | 18.98 | 669 | 18.91 | 671 |
| 110 | 0 | 0 | 0 | 0.629 | 19.1 | 665 | 19.04 | 667 |
| 120 | 0 | 0 | 0 | 0.629 | 19.22 | 661 | 19.16 | 663 |
| 130 | 0 | 0 | 0 | 0.629 | 19.34 | 657 | 19.28 | 658 |
| 167 | 0 | 0 | 0 | 0.629 | 19.77 | 643 | 19.7 | 645 |
| 212 | 0 | 0 | 0 | 0.629 | 20.24 | 628 | 20.18 | 630 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 1.907 | 30.24 | 2000 | 30.24 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 28.72 | 694 | 28.63 | 696 |
| 30 | 0 | 0 | 0 | 0.629 | 29.1 | 685 | 29.02 | 687 |
| 40 | 0 | 0 | 0 | 0.629 | 29.22 | 682 | 29.14 | 684 |
| 50 | 0 | 0 | 0 | 0.629 | 29.35 | 679 | 29.27 | 681 |
| 60 | 0 | 0 | 0 | 0.629 | 29.47 | 676 | 29.4 | 678 |
| 70 | 0 | 0 | 0 | 0.629 | 29.6 | 673 | 29.52 | 675 |
| 80 | 0 | 0 | 0 | 0.629 | 29.72 | 671 | 29.65 | 672 |
| 90 | 0 | 0 | 0 | 0.629 | 29.84 | 668 | 29.77 | 670 |
| 100 | 0 | 0 | 0 | 0.629 | 29.96 | 665 | 29.9 | 667 |
| 110 | 0 | 0 | 0 | 0.629 | 30.09 | 663 | 30.02 | 664 |
| 120 | 0 | 0 | 0 | 0.629 | 30.21 | 660 | 30.15 | 661 |
| 130 | 0 | 0 | 0 | 0.629 | 30.33 | 658 | 30.27 | 659 |
| 167 | 0 | 0 | 0 | 0.629 | 30.76 | 649 | 30.7 | 650 |
| 212 | 0 | 0 | 0 | 0.629 | 31.25 | 639 | 31.19 | 640 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-3 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 |
| 150.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 |
| 175.00 | 1-7 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-9 | 3-0 | 3-3 |
| 200.00 | 2-1 | 2-3 | 2-5 | 2-7 | 2-10 | 3-1 | 3-4 | 3-7 | 3-11 | 4-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-4 | 0-4 | 0-4 | 0-5 | 0-5 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 |
| 100.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 |
| 125.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 150.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 |
| 175.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 |
| 200.00 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-9 | 4-1 | 4-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.163

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 |
| 125.00 | 1-4 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 |
| 150.00 | 2-0 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 |
| 175.00 | 2-8 | 2-9 | 2-10 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 |
| 200.00 | 3-6 | 3-7 | 3-9 | 3-10 | 4-0 | 4-1 | 4-3 | 4-4 | 4-6 | 4-7 |
| 225.00 | 4-5 | 4-7 | 4-9 | 4-11 | 5-1 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 |
| 250.00 | 5-6 | 5-8 | 5-10 | 6-1 | 6-3 | 6-5 | 6-7 | 6-10 | 7-0 | 7-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 |
| 125.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 |
| 150.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 |
| 175.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 |
| 200.00 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 |
| 225.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-9 | 5-10 |
| 250.00 | 5-7 | 5-9 | 6-0 | 6-2 | 6-4 | 6-6 | 6-9 | 6-11 | 7-1 | 7-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-8 |
| 175.00 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 |
| 200.00 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 |
| 225.00 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 |
| 250.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 |
| 275.00 | 7-11 | 8-0 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-11 |
| 300.00 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 |
| 325.00 | 11-1 | 11-3 | 11-5 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 | 12-5 |
| 350.00 | 12-10 | 13-0 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 | 14-5 |
| 375.00 | 14-9 | 15-0 | 15-2 | 15-4 | 15-7 | 15-9 | 16-0 | 16-2 | 16-4 | 16-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 |
| 175.00 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 |
| 200.00 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 |
| 225.00 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 250.00 | 6-7 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 275.00 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 | 8-6 | 8-8 | 8-9 | 8-10 | 8-11 |
| 300.00 | 9-6 | 9-8 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-5 | 10-6 | 10-8 |
| 325.00 | 11-2 | 11-4 | 11-6 | 11-8 | 11-9 | 11-11 | 12-1 | 12-2 | 12-4 | 12-6 |
| 350.00 | 13-0 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 |
| 375.00 | 14-11 | 15-1 | 15-4 | 15-6 | 15-8 | 15-11 | 16-1 | 16-3 | 16-5 | 16-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 |
| 225.00 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 |
| 250.00 | 7-0 | 7-0 | 7-1 | 7-2 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 |
| 275.00 | 8-5 | 8-6 | 8-7 | 8-8 | 8-8 | 8-9 | 8-10 | 8-10 | 8-11 | 9-0 |
| 300.00 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-7 | 10-8 |
| 325.00 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 |
| 350.00 | 13-8 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-6 | 14-7 |
| 375.00 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 | 16-5 | 16-6 | 16-7 | 16-9 |
| 400.00 | 17-11 | 18-0 | 18-2 | 18-3 | 18-5 | 18-6 | 18-8 | 18-9 | 18-11 | 19-0 |
| 425.00 | 20-3 | 20-4 | 20-6 | 20-8 | 20-10 | 20-11 | 21-1 | 21-3 | 21-4 | 21-6 |
| 450.00 | 22-8 | 22-10 | 23-0 | 23-2 | 23-4 | 23-6 | 23-8 | 23-10 | 23-11 | 24-1 |
| 475.00 | 25-3 | 25-5 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 | 26-6 | 26-8 | 26-11 |
| 500.00 | 28-0 | 28-3 | 28-5 | 28-7 | 28-10 | 29-0 | 29-3 | 29-5 | 29-7 | 29-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 |
| 225.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 |
| 250.00 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 |
| 275.00 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 |
| 300.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 |
| 325.00 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 |
| 350.00 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 |
| 375.00 | 15-10 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 | 16-9 |
| 400.00 | 18-0 | 18-1 | 18-3 | 18-4 | 18-6 | 18-7 | 18-9 | 18-10 | 19-0 | 19-1 |
| 425.00 | 20-4 | 20-5 | 20-7 | 20-9 | 20-11 | 21-0 | 21-2 | 21-4 | 21-5 | 21-7 |
| 450.00 | 22-9 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 | 23-11 | 24-0 | 24-2 |
| 475.00 | 25-5 | 25-7 | 25-9 | 25-11 | 26-1 | 26-3 | 26-5 | 26-7 | 26-10 | 27-0 |
| 500.00 | 28-2 | 28-4 | 28-6 | 28-9 | 28-11 | 29-2 | 29-4 | 29-6 | 29-8 | 29-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-6 |
| 275.00 | 8-9 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 |
| 300.00 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-8 | 10-9 | 10-9 |
| 325.00 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 | 12-5 | 12-6 | 12-7 | 12-7 | 12-8 |
| 350.00 | 14-1 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 | 14-7 | 14-7 | 14-8 |
| 375.00 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-9 | 16-9 | 16-10 |
| 400.00 | 18-6 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 |
| 425.00 | 20-10 | 20-11 | 21-0 | 21-1 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 |
| 450.00 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-11 | 24-0 | 24-1 | 24-2 | 24-4 |
| 475.00 | 26-1 | 26-2 | 26-3 | 26-5 | 26-6 | 26-8 | 26-9 | 26-10 | 27-0 | 27-1 |
| 500.00 | 28-11 | 29-0 | 29-2 | 29-3 | 29-5 | 29-6 | 29-8 | 29-9 | 29-11 | 30-0 |
| 525.00 | 31-10 | 32-0 | 32-2 | 32-3 | 32-5 | 32-7 | 32-8 | 32-10 | 33-0 | 33-1 |
| 550.00 | 35-0 | 35-2 | 35-4 | 35-5 | 35-7 | 35-9 | 35-11 | 36-1 | 36-3 | 36-4 |
| 575.00 | 38-3 | 38-5 | 38-7 | 38-9 | 38-11 | 39-1 | 39-3 | 39-5 | 39-7 | 39-9 |
| 600.00 | 41-8 | 41-10 | 42-1 | 42-3 | 42-5 | 42-7 | 42-9 | 43-0 | 43-2 | 43-4 |
| 625.00 | 45-3 | 45-5 | 45-8 | 45-10 | 46-1 | 46-3 | 46-5 | 46-8 | 46-10 | 47-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 |
| 275.00 | 8-9 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 |
| 300.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 |
| 325.00 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 | 12-6 | 12-7 | 12-8 | 12-8 |
| 350.00 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-8 | 14-8 |
| 375.00 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 |
| 400.00 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 |
| 425.00 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-6 | 21-7 | 21-9 |
| 450.00 | 23-5 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-4 |
| 475.00 | 26-2 | 26-3 | 26-4 | 26-6 | 26-7 | 26-8 | 26-10 | 26-11 | 27-0 | 27-2 |
| 500.00 | 29-0 | 29-1 | 29-3 | 29-4 | 29-6 | 29-7 | 29-9 | 29-10 | 30-0 | 30-1 |
| 525.00 | 31-11 | 32-1 | 32-3 | 32-4 | 32-6 | 32-8 | 32-9 | 32-11 | 33-1 | 33-2 |
| 550.00 | 35-1 | 35-3 | 35-5 | 35-7 | 35-8 | 35-10 | 36-0 | 36-2 | 36-4 | 36-5 |
| 575.00 | 38-4 | 38-6 | 38-8 | 38-10 | 39-0 | 39-2 | 39-4 | 39-6 | 39-8 | 39-10 |
| 600.00 | 41-10 | 42-0 | 42-2 | 42-4 | 42-6 | 42-8 | 42-11 | 43-1 | 43-3 | 43-5 |
| 625.00 | 45-5 | 45-7 | 45-9 | 46-0 | 46-2 | 46-4 | 46-7 | 46-9 | 46-11 | 47-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 3.94 | 1000 | 3.94 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 3.58 | 221 | 3.57 | 222 |
| 30 | 0 | 0 | 0 | 0.629 | 3.62 | 218 | 3.61 | 219 |
| 40 | 0 | 0 | 0 | 0.629 | 3.66 | 216 | 3.65 | 217 |
| 50 | 0 | 0 | 0 | 0.629 | 3.7 | 214 | 3.69 | 214 |
| 60 | 0 | 0 | 0 | 0.629 | 3.74 | 211 | 3.73 | 212 |
| 70 | 0 | 0 | 0 | 0.629 | 3.78 | 209 | 3.77 | 210 |
| 80 | 0 | 0 | 0 | 0.629 | 3.82 | 207 | 3.81 | 208 |
| 90 | 0 | 0 | 0 | 0.629 | 3.86 | 205 | 3.85 | 206 |
| 100 | 0 | 0 | 0 | 0.629 | 3.9 | 203 | 3.88 | 204 |
| 110 | 0 | 0 | 0 | 0.629 | 3.93 | 201 | 3.91 | 202 |
| 120 | 0 | 0 | 0 | 0.629 | 3.97 | 199 | 3.95 | 200 |
| 130 | 0 | 0 | 0 | 0.629 | 4 | 198 | 3.98 | 199 |
| 167 | 0 | 0 | 0 | 0.629 | 4.12 | 192 | 4.1 | 193 |
| 212 | 0 | 0 | 0 | 0.629 | 4.27 | 186 | 4.25 | 186 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 16.05 | 1000 | 16.05 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 15.71 | 205 | 15.69 | 205 |
| 30 | 0 | 0 | 0 | 0.629 | 15.75 | 205 | 15.73 | 205 |
| 40 | 0 | 0 | 0 | 0.629 | 15.78 | 204 | 15.77 | 204 |
| 50 | 0 | 0 | 0 | 0.629 | 15.82 | 204 | 15.81 | 204 |
| 60 | 0 | 0 | 0 | 0.629 | 15.86 | 203 | 15.85 | 203 |
| 70 | 0 | 0 | 0 | 0.629 | 15.9 | 203 | 15.89 | 203 |
| 80 | 0 | 0 | 0 | 0.629 | 15.94 | 202 | 15.93 | 203 |
| 90 | 0 | 0 | 0 | 0.629 | 15.97 | 202 | 15.96 | 202 |
| 100 | 0 | 0 | 0 | 0.629 | 16.01 | 201 | 16 | 202 |
| 110 | 0 | 0 | 0 | 0.629 | 16.05 | 201 | 16.03 | 201 |
| 120 | 0 | 0 | 0 | 0.629 | 16.08 | 201 | 16.06 | 201 |
| 130 | 0 | 0 | 0 | 0.629 | 16.12 | 200 | 16.1 | 200 |
| 167 | 0 | 0 | 0 | 0.629 | 16.24 | 199 | 16.23 | 199 |
| 212 | 0 | 0 | 0 | 0.629 | 16.4 | 197 | 16.38 | 197 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 37.41 | 1000 | 37.41 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 37.07 | 203 | 37.05 | 203 |
| 30 | 0 | 0 | 0 | 0.629 | 37.11 | 202 | 37.09 | 203 |
| 40 | 0 | 0 | 0 | 0.629 | 37.14 | 202 | 37.13 | 202 |
| 50 | 0 | 0 | 0 | 0.629 | 37.18 | 202 | 37.17 | 202 |
| 60 | 0 | 0 | 0 | 0.629 | 37.22 | 202 | 37.21 | 202 |
| 70 | 0 | 0 | 0 | 0.629 | 37.26 | 202 | 37.25 | 202 |
| 80 | 0 | 0 | 0 | 0.629 | 37.3 | 202 | 37.28 | 202 |
| 90 | 0 | 0 | 0 | 0.629 | 37.33 | 201 | 37.32 | 201 |
| 100 | 0 | 0 | 0 | 0.629 | 37.37 | 201 | 37.36 | 201 |
| 110 | 0 | 0 | 0 | 0.629 | 37.41 | 201 | 37.39 | 201 |
| 120 | 0 | 0 | 0 | 0.629 | 37.44 | 201 | 37.42 | 201 |
| 130 | 0 | 0 | 0 | 0.629 | 37.48 | 201 | 37.46 | 201 |
| 167 | 0 | 0 | 0 | 0.629 | 37.6 | 200 | 37.58 | 200 |
| 212 | 0 | 0 | 0 | 0.629 | 37.76 | 199 | 37.74 | 199 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 70.43 | 1000 | 70.43 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 70.09 | 202 | 70.08 | 202 |
| 30 | 0 | 0 | 0 | 0.629 | 70.13 | 202 | 70.11 | 202 |
| 40 | 0 | 0 | 0 | 0.629 | 70.17 | 202 | 70.15 | 202 |
| 50 | 0 | 0 | 0 | 0.629 | 70.2 | 201 | 70.19 | 202 |
| 60 | 0 | 0 | 0 | 0.629 | 70.24 | 201 | 70.23 | 201 |
| 70 | 0 | 0 | 0 | 0.629 | 70.28 | 201 | 70.27 | 201 |
| 80 | 0 | 0 | 0 | 0.629 | 70.32 | 201 | 70.3 | 201 |
| 90 | 0 | 0 | 0 | 0.629 | 70.35 | 201 | 70.34 | 201 |
| 100 | 0 | 0 | 0 | 0.629 | 70.39 | 201 | 70.37 | 201 |
| 110 | 0 | 0 | 0 | 0.629 | 70.43 | 201 | 70.41 | 201 |
| 120 | 0 | 0 | 0 | 0.629 | 70.46 | 201 | 70.44 | 201 |
| 130 | 0 | 0 | 0 | 0.629 | 70.49 | 201 | 70.48 | 201 |
| 167 | 0 | 0 | 0 | 0.629 | 70.62 | 201 | 70.6 | 201 |
| 212 | 0 | 0 | 0 | 0.629 | 70.77 | 200 | 70.75 | 200 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 121.11 | 1000 | 121.11 | 1000* |
| 20 | 0 | 0 | 0 | 0.629 | 120.77 | 201 | 120.76 | 201 |
| 30 | 0 | 0 | 0 | 0.629 | 120.81 | 201 | 120.79 | 201 |
| 40 | 0 | 0 | 0 | 0.629 | 120.85 | 201 | 120.83 | 201 |
| 50 | 0 | 0 | 0 | 0.629 | 120.88 | 201 | 120.87 | 201 |
| 60 | 0 | 0 | 0 | 0.629 | 120.92 | 201 | 120.91 | 201 |
| 70 | 0 | 0 | 0 | 0.629 | 120.96 | 201 | 120.94 | 201 |
| 80 | 0 | 0 | 0 | 0.629 | 120.99 | 201 | 120.98 | 201 |
| 90 | 0 | 0 | 0 | 0.629 | 121.03 | 201 | 121.02 | 201 |
| 100 | 0 | 0 | 0 | 0.629 | 121.06 | 201 | 121.05 | 201 |
| 110 | 0 | 0 | 0 | 0.629 | 121.1 | 201 | 121.08 | 201 |
| 120 | 0 | 0 | 0 | 0.629 | 121.13 | 201 | 121.12 | 201 |
| 130 | 0 | 0 | 0 | 0.629 | 121.17 | 201 | 121.15 | 201 |
| 167 | 0 | 0 | 0 | 0.629 | 121.29 | 201 | 121.27 | 201 |
| 212 | 0 | 0 | 0 | 0.629 | 121.44 | 201 | 121.42 | 201 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 |
| 100.00 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 125.00 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 |
| 150.00 | 8-0 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 |
| 175.00 | 10-11 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-0 |
| 200.00 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-7 | 15-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 |
| 100.00 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 |
| 125.00 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 |
| 150.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 |
| 175.00 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 12-0 | 12-1 |
| 200.00 | 14-5 | 14-7 | 14-9 | 14-11 | 15-1 | 15-3 | 15-4 | 15-6 | 15-8 | 15-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 |
| 125.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 |
| 150.00 | 8-10 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 |
| 175.00 | 12-0 | 12-0 | 12-1 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 |
| 200.00 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 | 15-11 | 15-11 | 16-0 | 16-0 | 16-0 |
| 225.00 | 19-11 | 19-11 | 20-0 | 20-1 | 20-1 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 |
| 250.00 | 24-8 | 24-8 | 24-9 | 24-10 | 24-11 | 24-11 | 25-0 | 25-1 | 25-1 | 25-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 |
| 125.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 |
| 150.00 | 8-10 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 |
| 175.00 | 12-0 | 12-0 | 12-1 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 |
| 200.00 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 | 15-11 | 15-11 | 16-0 | 16-0 | 16-1 |
| 225.00 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 |
| 250.00 | 24-8 | 24-9 | 24-9 | 24-10 | 24-11 | 24-11 | 25-0 | 25-1 | 25-2 | 25-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-3 |
| 175.00 | 12-5 | 12-6 | 12-6 | 12-6 | 12-6 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 |
| 200.00 | 16-3 | 16-4 | 16-4 | 16-4 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-5 |
| 225.00 | 20-8 | 20-8 | 20-8 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 |
| 250.00 | 25-7 | 25-7 | 25-8 | 25-8 | 25-8 | 25-9 | 25-9 | 25-9 | 25-9 | 25-10 |
| 275.00 | 31-0 | 31-1 | 31-1 | 31-2 | 31-2 | 31-2 | 31-3 | 31-3 | 31-3 | 31-4 |
| 300.00 | 37-1 | 37-1 | 37-2 | 37-2 | 37-2 | 37-3 | 37-3 | 37-4 | 37-4 | 37-5 |
| 325.00 | 43-8 | 43-8 | 43-9 | 43-9 | 43-10 | 43-10 | 43-11 | 43-11 | 44-0 | 44-0 |
| 350.00 | 50-9 | 50-10 | 50-11 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-3 | 51-3 |
| 375.00 | 58-6 | 58-7 | 58-8 | 58-9 | 58-9 | 58-10 | 58-11 | 59-0 | 59-0 | 59-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-3 |
| 175.00 | 12-5 | 12-6 | 12-6 | 12-6 | 12-6 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 |
| 200.00 | 16-4 | 16-4 | 16-4 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-5 | 16-5 |
| 225.00 | 20-8 | 20-8 | 20-9 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 |
| 250.00 | 25-7 | 25-7 | 25-8 | 25-8 | 25-8 | 25-9 | 25-9 | 25-9 | 25-10 | 25-10 |
| 275.00 | 31-1 | 31-1 | 31-1 | 31-2 | 31-2 | 31-3 | 31-3 | 31-3 | 31-4 | 31-4 |
| 300.00 | 37-1 | 37-1 | 37-2 | 37-2 | 37-3 | 37-3 | 37-4 | 37-4 | 37-4 | 37-5 |
| 325.00 | 43-8 | 43-8 | 43-9 | 43-9 | 43-10 | 43-11 | 43-11 | 44-0 | 44-0 | 44-1 |
| 350.00 | 50-10 | 50-10 | 50-11 | 51-0 | 51-0 | 51-1 | 51-2 | 51-2 | 51-3 | 51-3 |
| 375.00 | 58-7 | 58-7 | 58-8 | 58-9 | 58-10 | 58-10 | 58-11 | 59-0 | 59-1 | 59-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 17-0 | 17-0 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 |
| 225.00 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 |
| 250.00 | 26-9 | 26-9 | 26-9 | 26-10 | 26-10 | 26-10 | 26-10 | 26-10 | 26-10 | 26-10 |
| 275.00 | 32-6 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 | 32-7 | 32-7 |
| 300.00 | 38-9 | 38-10 | 38-10 | 38-10 | 38-10 | 38-10 | 38-11 | 38-11 | 38-11 | 38-11 |
| 325.00 | 45-8 | 45-8 | 45-9 | 45-9 | 45-9 | 45-10 | 45-10 | 45-10 | 45-10 | 45-11 |
| 350.00 | 53-2 | 53-2 | 53-3 | 53-3 | 53-4 | 53-4 | 53-4 | 53-5 | 53-5 | 53-5 |
| 375.00 | 61-4 | 61-4 | 61-5 | 61-5 | 61-5 | 61-6 | 61-6 | 61-6 | 61-7 | 61-7 |
| 400.00 | 70-1 | 70-1 | 70-2 | 70-2 | 70-3 | 70-3 | 70-4 | 70-4 | 70-4 | 70-5 |
| 425.00 | 79-6 | 79-6 | 79-7 | 79-7 | 79-8 | 79-9 | 79-9 | 79-10 | 79-10 | 79-10 |
| 450.00 | 89-7 | 89-8 | 89-8 | 89-9 | 89-9 | 89-10 | 89-11 | 89-11 | 90-0 | 90-0 |
| 475.00 | 100-4 | 100-5 | 100-6 | 100-6 | 100-7 | 100-8 | 100-8 | 100-9 | 100-10 | 100-10 |
| 500.00 | 111-10 | 111-11 | 111-11 | 112-0 | 112-1 | 112-2 | 112-3 | 112-3 | 112-4 | 112-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 17-0 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 |
| 225.00 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-9 |
| 250.00 | 26-9 | 26-9 | 26-9 | 26-10 | 26-10 | 26-10 | 26-10 | 26-10 | 26-10 | 26-11 |
| 275.00 | 32-6 | 32-6 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 | 32-7 | 32-7 | 32-8 |
| 300.00 | 38-9 | 38-10 | 38-10 | 38-10 | 38-10 | 38-11 | 38-11 | 38-11 | 38-11 | 39-0 |
| 325.00 | 45-8 | 45-8 | 45-9 | 45-9 | 45-9 | 45-10 | 45-10 | 45-10 | 45-10 | 45-11 |
| 350.00 | 53-2 | 53-3 | 53-3 | 53-3 | 53-4 | 53-4 | 53-4 | 53-5 | 53-5 | 53-5 |
| 375.00 | 61-4 | 61-4 | 61-5 | 61-5 | 61-5 | 61-6 | 61-6 | 61-7 | 61-7 | 61-7 |
| 400.00 | 70-1 | 70-2 | 70-2 | 70-2 | 70-3 | 70-3 | 70-4 | 70-4 | 70-5 | 70-5 |
| 425.00 | 79-6 | 79-7 | 79-7 | 79-8 | 79-8 | 79-9 | 79-9 | 79-10 | 79-10 | 79-11 |
| 450.00 | 89-7 | 89-8 | 89-8 | 89-9 | 89-10 | 89-10 | 89-11 | 89-11 | 90-0 | 90-0 |
| 475.00 | 100-5 | 100-5 | 100-6 | 100-7 | 100-7 | 100-8 | 100-8 | 100-9 | 100-10 | 100-10 |
| 500.00 | 111-10 | 111-11 | 112-0 | 112-1 | 112-1 | 112-2 | 112-3 | 112-3 | 112-4 | 112-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 28-8 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 |
| 275.00 | 34-10 | 34-10 | 34-10 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 |
| 300.00 | 41-8 | 41-8 | 41-8 | 41-8 | 41-8 | 41-8 | 41-9 | 41-9 | 41-9 | 41-9 |
| 325.00 | 49-1 | 49-1 | 49-1 | 49-1 | 49-2 | 49-2 | 49-2 | 49-2 | 49-2 | 49-2 |
| 350.00 | 57-2 | 57-2 | 57-2 | 57-3 | 57-3 | 57-3 | 57-3 | 57-3 | 57-4 | 57-4 |
| 375.00 | 65-11 | 66-0 | 66-0 | 66-0 | 66-0 | 66-1 | 66-1 | 66-1 | 66-1 | 66-2 |
| 400.00 | 75-5 | 75-6 | 75-6 | 75-6 | 75-6 | 75-7 | 75-7 | 75-7 | 75-7 | 75-8 |
| 425.00 | 85-8 | 85-8 | 85-8 | 85-9 | 85-9 | 85-9 | 85-9 | 85-10 | 85-10 | 85-10 |
| 450.00 | 96-7 | 96-7 | 96-8 | 96-8 | 96-8 | 96-9 | 96-9 | 96-9 | 96-10 | 96-10 |
| 475.00 | 108-3 | 108-4 | 108-4 | 108-4 | 108-5 | 108-5 | 108-6 | 108-6 | 108-6 | 108-7 |
| 500.00 | 120-9 | 120-10 | 120-10 | 120-10 | 120-11 | 120-11 | 121-0 | 121-0 | 121-1 | 121-1 |
| 525.00 | 134-1 | 134-1 | 134-2 | 134-2 | 134-3 | 134-3 | 134-4 | 134-4 | 134-5 | 134-5 |
| 550.00 | 148-2 | 148-3 | 148-3 | 148-4 | 148-4 | 148-5 | 148-6 | 148-6 | 148-7 | 148-7 |
| 575.00 | 163-2 | 163-3 | 163-3 | 163-4 | 163-5 | 163-5 | 163-6 | 163-7 | 163-7 | 163-8 |
| 600.00 | 179-1 | 179-2 | 179-2 | 179-3 | 179-4 | 179-4 | 179-5 | 179-6 | 179-6 | 179-7 |
| 625.00 | 195-11 | 196-0 | 196-0 | 196-1 | 196-2 | 196-3 | 196-4 | 196-4 | 196-5 | 196-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 28-8 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 |
| 275.00 | 34-10 | 34-10 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 |
| 300.00 | 41-8 | 41-8 | 41-8 | 41-8 | 41-8 | 41-8 | 41-9 | 41-9 | 41-9 | 41-9 |
| 325.00 | 49-1 | 49-1 | 49-1 | 49-1 | 49-2 | 49-2 | 49-2 | 49-2 | 49-2 | 49-2 |
| 350.00 | 57-2 | 57-2 | 57-3 | 57-3 | 57-3 | 57-3 | 57-3 | 57-4 | 57-4 | 57-4 |
| 375.00 | 66-0 | 66-0 | 66-0 | 66-0 | 66-0 | 66-1 | 66-1 | 66-1 | 66-1 | 66-2 |
| 400.00 | 75-5 | 75-6 | 75-6 | 75-6 | 75-6 | 75-7 | 75-7 | 75-7 | 75-7 | 75-8 |
| 425.00 | 85-8 | 85-8 | 85-8 | 85-9 | 85-9 | 85-9 | 85-10 | 85-10 | 85-10 | 85-10 |
| 450.00 | 96-7 | 96-7 | 96-8 | 96-8 | 96-8 | 96-9 | 96-9 | 96-9 | 96-10 | 96-10 |
| 475.00 | 108-3 | 108-4 | 108-4 | 108-5 | 108-5 | 108-5 | 108-6 | 108-6 | 108-7 | 108-7 |
| 500.00 | 120-9 | 120-10 | 120-10 | 120-11 | 120-11 | 120-11 | 121-0 | 121-0 | 121-1 | 121-1 |
| 525.00 | 134-1 | 134-1 | 134-2 | 134-2 | 134-3 | 134-3 | 134-4 | 134-4 | 134-5 | 134-5 |
| 550.00 | 148-2 | 148-3 | 148-4 | 148-4 | 148-5 | 148-5 | 148-6 | 148-6 | 148-7 | 148-7 |
| 575.00 | 163-2 | 163-3 | 163-4 | 163-4 | 163-5 | 163-6 | 163-6 | 163-7 | 163-7 | 163-8 |
| 600.00 | 179-1 | 179-2 | 179-3 | 179-3 | 179-4 | 179-5 | 179-5 | 179-6 | 179-7 | 179-7 |
| 625.00 | 195-11 | 196-0 | 196-1 | 196-1 | 196-2 | 196-3 | 196-4 | 196-5 | 196-5 | 196-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 2.62 | 1500 | 2.62 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 1.87 | 420 | 1.84 | 429 |
| 30 | 0 | 0 | 0 | 0.629 | 1.94 | 406 | 1.91 | 413 |
| 40 | 0 | 0 | 0 | 0.629 | 2.01 | 392 | 1.98 | 399 |
| 50 | 0 | 0 | 0 | 0.629 | 2.07 | 380 | 2.04 | 386 |
| 60 | 0 | 0 | 0 | 0.629 | 2.14 | 368 | 2.11 | 374 |
| 70 | 0 | 0 | 0 | 0.629 | 2.2 | 358 | 2.17 | 363 |
| 80 | 0 | 0 | 0 | 0.629 | 2.26 | 348 | 2.24 | 352 |
| 90 | 0 | 0 | 0 | 0.629 | 2.32 | 339 | 2.3 | 343 |
| 100 | 0 | 0 | 0 | 0.629 | 2.38 | 331 | 2.36 | 334 |
| 110 | 0 | 0 | 0 | 0.629 | 2.44 | 323 | 2.41 | 327 |
| 120 | 0 | 0 | 0 | 0.629 | 2.5 | 316 | 2.46 | 320 |
| 130 | 0 | 0 | 0 | 0.629 | 2.55 | 309 | 2.52 | 313 |
| 167 | 0 | 0 | 0 | 0.629 | 2.73 | 289 | 2.7 | 292 |
| 212 | 0 | 0 | 0 | 0.629 | 2.94 | 269 | 2.9 | 272 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 10.55 | 1500 | 10.55 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 9.85 | 322 | 9.81 | 324 |
| 30 | 0 | 0 | 0 | 0.629 | 9.91 | 321 | 9.87 | 322 |
| 40 | 0 | 0 | 0 | 0.629 | 9.97 | 319 | 9.93 | 320 |
| 50 | 0 | 0 | 0 | 0.629 | 10.02 | 317 | 9.99 | 318 |
| 60 | 0 | 0 | 0 | 0.629 | 10.08 | 315 | 10.05 | 316 |
| 70 | 0 | 0 | 0 | 0.629 | 10.14 | 313 | 10.11 | 314 |
| 80 | 0 | 0 | 0 | 0.629 | 10.2 | 312 | 10.17 | 312 |
| 90 | 0 | 0 | 0 | 0.629 | 10.26 | 310 | 10.23 | 311 |
| 100 | 0 | 0 | 0 | 0.629 | 10.31 | 308 | 10.29 | 309 |
| 110 | 0 | 0 | 0 | 0.629 | 10.37 | 307 | 10.34 | 307 |
| 120 | 0 | 0 | 0 | 0.629 | 10.43 | 305 | 10.39 | 306 |
| 130 | 0 | 0 | 0 | 0.629 | 10.48 | 303 | 10.45 | 304 |
| 167 | 0 | 0 | 0 | 0.629 | 10.67 | 298 | 10.63 | 299 |
| 212 | 0 | 0 | 0 | 0.629 | 10.89 | 292 | 10.86 | 293 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 24.08 | 1500 | 24.08 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 23.39 | 310 | 23.35 | 310 |
| 30 | 0 | 0 | 0 | 0.629 | 23.44 | 309 | 23.41 | 310 |
| 40 | 0 | 0 | 0 | 0.629 | 23.5 | 308 | 23.47 | 309 |
| 50 | 0 | 0 | 0 | 0.629 | 23.56 | 308 | 23.53 | 308 |
| 60 | 0 | 0 | 0 | 0.629 | 23.62 | 307 | 23.59 | 307 |
| 70 | 0 | 0 | 0 | 0.629 | 23.67 | 306 | 23.65 | 307 |
| 80 | 0 | 0 | 0 | 0.629 | 23.73 | 306 | 23.71 | 306 |
| 90 | 0 | 0 | 0 | 0.629 | 23.79 | 305 | 23.76 | 305 |
| 100 | 0 | 0 | 0 | 0.629 | 23.84 | 304 | 23.82 | 305 |
| 110 | 0 | 0 | 0 | 0.629 | 23.9 | 304 | 23.87 | 304 |
| 120 | 0 | 0 | 0 | 0.629 | 23.96 | 303 | 23.92 | 303 |
| 130 | 0 | 0 | 0 | 0.629 | 24.01 | 302 | 23.98 | 303 |
| 167 | 0 | 0 | 0 | 0.629 | 24.2 | 300 | 24.17 | 300 |
| 212 | 0 | 0 | 0 | 0.629 | 24.43 | 297 | 24.4 | 298 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 43.73 | 1500 | 43.73 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 43.05 | 306 | 43.01 | 306 |
| 30 | 0 | 0 | 0 | 0.629 | 43.1 | 305 | 43.07 | 306 |
| 40 | 0 | 0 | 0 | 0.629 | 43.16 | 305 | 43.13 | 305 |
| 50 | 0 | 0 | 0 | 0.629 | 43.22 | 305 | 43.19 | 305 |
| 60 | 0 | 0 | 0 | 0.629 | 43.27 | 304 | 43.24 | 305 |
| 70 | 0 | 0 | 0 | 0.629 | 43.33 | 304 | 43.3 | 304 |
| 80 | 0 | 0 | 0 | 0.629 | 43.39 | 304 | 43.36 | 304 |
| 90 | 0 | 0 | 0 | 0.629 | 43.44 | 303 | 43.42 | 303 |
| 100 | 0 | 0 | 0 | 0.629 | 43.5 | 303 | 43.48 | 303 |
| 110 | 0 | 0 | 0 | 0.629 | 43.56 | 303 | 43.53 | 303 |
| 120 | 0 | 0 | 0 | 0.629 | 43.61 | 302 | 43.58 | 302 |
| 130 | 0 | 0 | 0 | 0.629 | 43.67 | 302 | 43.63 | 302 |
| 167 | 0 | 0 | 0 | 0.629 | 43.86 | 301 | 43.82 | 301 |
| 212 | 0 | 0 | 0 | 0.629 | 44.09 | 299 | 44.05 | 299 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 70.41 | 1500 | 70.41 | 1500* |
| 20 | 0 | 0 | 0 | 0.629 | 69.72 | 304 | 69.69 | 304 |
| 30 | 0 | 0 | 0 | 0.629 | 69.78 | 304 | 69.75 | 304 |
| 40 | 0 | 0 | 0 | 0.629 | 69.84 | 304 | 69.81 | 304 |
| 50 | 0 | 0 | 0 | 0.629 | 69.89 | 303 | 69.86 | 303 |
| 60 | 0 | 0 | 0 | 0.629 | 69.95 | 303 | 69.92 | 303 |
| 70 | 0 | 0 | 0 | 0.629 | 70.01 | 303 | 69.98 | 303 |
| 80 | 0 | 0 | 0 | 0.629 | 70.06 | 303 | 70.04 | 303 |
| 90 | 0 | 0 | 0 | 0.629 | 70.12 | 303 | 70.1 | 303 |
| 100 | 0 | 0 | 0 | 0.629 | 70.18 | 302 | 70.15 | 302 |
| 110 | 0 | 0 | 0 | 0.629 | 70.23 | 302 | 70.2 | 302 |
| 120 | 0 | 0 | 0 | 0.629 | 70.29 | 302 | 70.25 | 302 |
| 130 | 0 | 0 | 0 | 0.629 | 70.34 | 302 | 70.31 | 302 |
| 167 | 0 | 0 | 0 | 0.629 | 70.53 | 301 | 70.5 | 301 |
| 212 | 0 | 0 | 0 | 0.629 | 70.76 | 300 | 70.73 | 300 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 100.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 |
| 125.00 | 2-10 | 3-0 | 3-1 | 3-2 | 3-4 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 |
| 150.00 | 4-2 | 4-4 | 4-5 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-4 | 5-5 |
| 175.00 | 5-8 | 5-10 | 6-1 | 6-3 | 6-6 | 6-8 | 6-10 | 7-1 | 7-3 | 7-5 |
| 200.00 | 7-4 | 7-8 | 7-11 | 8-2 | 8-5 | 8-9 | 9-0 | 9-3 | 9-5 | 9-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 |
| 100.00 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 |
| 125.00 | 2-11 | 3-0 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 |
| 150.00 | 4-3 | 4-4 | 4-6 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 |
| 175.00 | 5-9 | 5-11 | 6-2 | 6-4 | 6-7 | 6-9 | 6-11 | 7-1 | 7-4 | 7-6 |
| 200.00 | 7-6 | 7-9 | 8-1 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.179

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 |
| 125.00 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 |
| 150.00 | 5-6 | 5-7 | 5-7 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 |
| 175.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 |
| 200.00 | 9-10 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 |
| 225.00 | 12-5 | 12-6 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-0 | 13-1 |
| 250.00 | 15-4 | 15-5 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 |
| 125.00 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 |
| 150.00 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 |
| 175.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 200.00 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 |
| 225.00 | 12-6 | 12-7 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 |
| 250.00 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-10 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 |
| 175.00 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 |
| 200.00 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 |
| 225.00 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 |
| 250.00 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 |
| 275.00 | 19-7 | 19-8 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 |
| 300.00 | 23-4 | 23-5 | 23-6 | 23-6 | 23-7 | 23-8 | 23-8 | 23-9 | 23-10 | 23-10 |
| 325.00 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 |
| 350.00 | 31-11 | 31-11 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 |
| 375.00 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-3 | 37-4 | 37-5 | 37-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-10 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 |
| 175.00 | 7-11 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 |
| 200.00 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 |
| 225.00 | 13-1 | 13-2 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 |
| 250.00 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 |
| 275.00 | 19-8 | 19-8 | 19-9 | 19-9 | 19-10 | 19-10 | 19-11 | 20-0 | 20-0 | 20-1 |
| 300.00 | 23-5 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 | 23-11 |
| 325.00 | 27-6 | 27-7 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 27-11 | 28-0 | 28-1 |
| 350.00 | 31-11 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 |
| 375.00 | 36-8 | 36-10 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-8 | 10-8 | 10-8 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 |
| 225.00 | 13-6 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-8 |
| 250.00 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 |
| 275.00 | 20-2 | 20-2 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 |
| 300.00 | 24-0 | 24-1 | 24-1 | 24-2 | 24-2 | 24-2 | 24-3 | 24-3 | 24-4 | 24-4 |
| 325.00 | 28-3 | 28-3 | 28-4 | 28-4 | 28-5 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 |
| 350.00 | 32-10 | 32-10 | 32-11 | 32-11 | 33-0 | 33-0 | 33-1 | 33-1 | 33-2 | 33-2 |
| 375.00 | 37-9 | 37-9 | 37-10 | 37-11 | 37-11 | 38-0 | 38-0 | 38-1 | 38-2 | 38-2 |
| 400.00 | 43-0 | 43-1 | 43-2 | 43-2 | 43-3 | 43-4 | 43-4 | 43-5 | 43-6 | 43-6 |
| 425.00 | 48-8 | 48-9 | 48-9 | 48-10 | 48-11 | 49-0 | 49-1 | 49-1 | 49-2 | 49-3 |
| 450.00 | 54-8 | 54-9 | 54-10 | 54-11 | 54-11 | 55-0 | 55-1 | 55-2 | 55-3 | 55-4 |
| 475.00 | 61-0 | 61-1 | 61-2 | 61-3 | 61-4 | 61-5 | 61-6 | 61-7 | 61-8 | 61-9 |
| 500.00 | 67-9 | 67-10 | 67-11 | 68-1 | 68-2 | 68-3 | 68-4 | 68-5 | 68-6 | 68-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-8 | 10-8 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 |
| 225.00 | 13-6 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-8 |
| 250.00 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 |
| 275.00 | 20-2 | 20-3 | 20-3 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 |
| 300.00 | 24-1 | 24-1 | 24-1 | 24-2 | 24-2 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 |
| 325.00 | 28-3 | 28-4 | 28-4 | 28-5 | 28-5 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 |
| 350.00 | 32-10 | 32-11 | 32-11 | 33-0 | 33-0 | 33-1 | 33-1 | 33-2 | 33-2 | 33-3 |
| 375.00 | 37-9 | 37-10 | 37-10 | 37-11 | 38-0 | 38-0 | 38-1 | 38-1 | 38-2 | 38-3 |
| 400.00 | 43-1 | 43-1 | 43-2 | 43-3 | 43-3 | 43-4 | 43-5 | 43-5 | 43-6 | 43-7 |
| 425.00 | 48-8 | 48-9 | 48-10 | 48-11 | 48-11 | 49-0 | 49-1 | 49-2 | 49-2 | 49-3 |
| 450.00 | 54-8 | 54-9 | 54-10 | 54-11 | 55-0 | 55-1 | 55-2 | 55-2 | 55-3 | 55-4 |
| 475.00 | 61-1 | 61-2 | 61-3 | 61-4 | 61-5 | 61-6 | 61-7 | 61-8 | 61-9 | 61-10 |
| 500.00 | 67-10 | 67-11 | 68-0 | 68-1 | 68-2 | 68-3 | 68-4 | 68-6 | 68-7 | 68-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-1 | 17-1 | 17-2 | 17-2 | 17-2 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 |
| 275.00 | 20-9 | 20-9 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 | 20-10 |
| 300.00 | 24-8 | 24-9 | 24-9 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 | 24-10 | 24-10 |
| 325.00 | 29-0 | 29-1 | 29-1 | 29-1 | 29-1 | 29-2 | 29-2 | 29-2 | 29-3 | 29-3 |
| 350.00 | 33-9 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-11 | 33-11 | 33-11 | 34-0 |
| 375.00 | 38-9 | 38-10 | 38-10 | 38-11 | 38-11 | 38-11 | 39-0 | 39-0 | 39-0 | 39-1 |
| 400.00 | 44-3 | 44-3 | 44-3 | 44-4 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 |
| 425.00 | 50-0 | 50-1 | 50-1 | 50-2 | 50-2 | 50-3 | 50-3 | 50-4 | 50-4 | 50-4 |
| 450.00 | 56-2 | 56-3 | 56-3 | 56-4 | 56-4 | 56-5 | 56-6 | 56-6 | 56-7 | 56-7 |
| 475.00 | 62-9 | 62-10 | 62-10 | 62-11 | 62-11 | 63-0 | 63-1 | 63-1 | 63-2 | 63-2 |
| 500.00 | 69-8 | 69-9 | 69-10 | 69-10 | 69-11 | 70-0 | 70-0 | 70-1 | 70-2 | 70-2 |
| 525.00 | 77-0 | 77-1 | 77-2 | 77-3 | 77-3 | 77-4 | 77-5 | 77-6 | 77-6 | 77-7 |
| 550.00 | 84-9 | 84-10 | 84-11 | 85-0 | 85-1 | 85-1 | 85-2 | 85-3 | 85-4 | 85-5 |
| 575.00 | 92-11 | 93-0 | 93-1 | 93-2 | 93-3 | 93-3 | 93-4 | 93-5 | 93-6 | 93-7 |
| 600.00 | 101-5 | 101-6 | 101-7 | 101-8 | 101-9 | 101-10 | 101-11 | 102-1 | 102-2 | 102-2 |
| 625.00 | 110-5 | 110-6 | 110-7 | 110-8 | 110-9 | 110-10 | 111-0 | 111-1 | 111-2 | 111-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-1 | 17-2 | 17-2 | 17-2 | 17-2 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 |
| 275.00 | 20-9 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 | 20-10 | 20-11 |
| 300.00 | 24-9 | 24-9 | 24-9 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 | 24-10 | 24-11 |
| 325.00 | 29-1 | 29-1 | 29-1 | 29-1 | 29-2 | 29-2 | 29-2 | 29-2 | 29-3 | 29-3 |
| 350.00 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-11 | 33-11 | 33-11 | 34-0 |
| 375.00 | 38-10 | 38-10 | 38-10 | 38-11 | 38-11 | 38-11 | 39-0 | 39-0 | 39-1 | 39-1 |
| 400.00 | 44-3 | 44-3 | 44-4 | 44-4 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-7 |
| 425.00 | 50-0 | 50-1 | 50-1 | 50-2 | 50-2 | 50-3 | 50-3 | 50-4 | 50-4 | 50-5 |
| 450.00 | 56-3 | 56-3 | 56-4 | 56-4 | 56-5 | 56-5 | 56-6 | 56-6 | 56-7 | 56-7 |
| 475.00 | 62-9 | 62-10 | 62-11 | 62-11 | 63-0 | 63-0 | 63-1 | 63-2 | 63-2 | 63-3 |
| 500.00 | 69-9 | 69-9 | 69-10 | 69-11 | 69-11 | 70-0 | 70-1 | 70-1 | 70-2 | 70-3 |
| 525.00 | 77-1 | 77-2 | 77-2 | 77-3 | 77-4 | 77-5 | 77-5 | 77-6 | 77-7 | 77-8 |
| 550.00 | 84-10 | 84-10 | 84-11 | 85-0 | 85-1 | 85-2 | 85-3 | 85-3 | 85-4 | 85-5 |
| 575.00 | 92-11 | 93-0 | 93-1 | 93-2 | 93-3 | 93-4 | 93-5 | 93-6 | 93-7 | 93-8 |
| 600.00 | 101-6 | 101-7 | 101-8 | 101-9 | 101-10 | 101-11 | 102-0 | 102-1 | 102-2 | 102-3 |
| 625.00 | 110-5 | 110-7 | 110-8 | 110-9 | 110-10 | 110-11 | 111-0 | 111-1 | 111-2 | 111-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 1.96 | 2000 | 1.96 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 0.8 | 980 | 0.77 | 1018 |
| 30 | 0 | 0 | 0 | 0.629 | 0.87 | 901 | 0.84 | 939 |
| 40 | 0 | 0 | 0 | 0.629 | 0.95 | 830 | 0.91 | 866 |
| 50 | 0 | 0 | 0 | 0.629 | 1.03 | 767 | 0.98 | 800 |
| 60 | 0 | 0 | 0 | 0.629 | 1.11 | 712 | 1.06 | 741 |
| 70 | 0 | 0 | 0 | 0.629 | 1.19 | 663 | 1.14 | 689 |
| 80 | 0 | 0 | 0 | 0.629 | 1.27 | 621 | 1.22 | 644 |
| 90 | 0 | 0 | 0 | 0.629 | 1.35 | 584 | 1.3 | 603 |
| 100 | 0 | 0 | 0 | 0.629 | 1.43 | 551 | 1.39 | 568 |
| 110 | 0 | 0 | 0 | 0.629 | 1.51 | 522 | 1.47 | 537 |
| 120 | 0 | 0 | 0 | 0.629 | 1.58 | 497 | 1.54 | 510 |
| 130 | 0 | 0 | 0 | 0.629 | 1.66 | 474 | 1.62 | 487 |
| 167 | 0 | 0 | 0 | 0.629 | 1.9 | 414 | 1.85 | 425 |
| 212 | 0 | 0 | 0 | 0.629 | 2.17 | 363 | 2.12 | 371 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 7.87 | 2000 | 7.87 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 6.68 | 473 | 6.61 | 478 |
| 30 | 0 | 0 | 0 | 0.629 | 6.76 | 467 | 6.7 | 472 |
| 40 | 0 | 0 | 0 | 0.629 | 6.84 | 462 | 6.78 | 466 |
| 50 | 0 | 0 | 0 | 0.629 | 6.93 | 456 | 6.87 | 460 |
| 60 | 0 | 0 | 0 | 0.629 | 7.01 | 451 | 6.95 | 455 |
| 70 | 0 | 0 | 0 | 0.629 | 7.09 | 446 | 7.04 | 449 |
| 80 | 0 | 0 | 0 | 0.629 | 7.17 | 441 | 7.12 | 444 |
| 90 | 0 | 0 | 0 | 0.629 | 7.25 | 436 | 7.2 | 439 |
| 100 | 0 | 0 | 0 | 0.629 | 7.33 | 432 | 7.28 | 434 |
| 110 | 0 | 0 | 0 | 0.629 | 7.4 | 427 | 7.36 | 430 |
| 120 | 0 | 0 | 0 | 0.629 | 7.48 | 423 | 7.44 | 425 |
| 130 | 0 | 0 | 0 | 0.629 | 7.56 | 419 | 7.51 | 421 |
| 167 | 0 | 0 | 0 | 0.629 | 7.81 | 405 | 7.76 | 408 |
| 212 | 0 | 0 | 0 | 0.629 | 8.11 | 390 | 8.06 | 393 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 17.86 | 2000 | 17.86 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 16.69 | 429 | 16.63 | 431 |
| 30 | 0 | 0 | 0 | 0.629 | 16.76 | 427 | 16.71 | 429 |
| 40 | 0 | 0 | 0 | 0.629 | 16.84 | 425 | 16.79 | 427 |
| 50 | 0 | 0 | 0 | 0.629 | 16.92 | 423 | 16.87 | 425 |
| 60 | 0 | 0 | 0 | 0.629 | 17 | 422 | 16.95 | 423 |
| 70 | 0 | 0 | 0 | 0.629 | 17.08 | 420 | 17.03 | 421 |
| 80 | 0 | 0 | 0 | 0.629 | 17.16 | 418 | 17.11 | 419 |
| 90 | 0 | 0 | 0 | 0.629 | 17.23 | 416 | 17.18 | 417 |
| 100 | 0 | 0 | 0 | 0.629 | 17.31 | 414 | 17.26 | 415 |
| 110 | 0 | 0 | 0 | 0.629 | 17.39 | 412 | 17.34 | 413 |
| 120 | 0 | 0 | 0 | 0.629 | 17.46 | 411 | 17.41 | 412 |
| 130 | 0 | 0 | 0 | 0.629 | 17.54 | 409 | 17.48 | 410 |
| 167 | 0 | 0 | 0 | 0.629 | 17.79 | 403 | 17.74 | 405 |
| 212 | 0 | 0 | 0 | 0.629 | 18.1 | 397 | 18.04 | 398 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 32.11 | 2000 | 32.11 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 30.95 | 416 | 30.89 | 417 |
| 30 | 0 | 0 | 0 | 0.629 | 31.03 | 415 | 30.97 | 416 |
| 40 | 0 | 0 | 0 | 0.629 | 31.1 | 414 | 31.05 | 415 |
| 50 | 0 | 0 | 0 | 0.629 | 31.18 | 413 | 31.12 | 414 |
| 60 | 0 | 0 | 0 | 0.629 | 31.26 | 412 | 31.2 | 413 |
| 70 | 0 | 0 | 0 | 0.629 | 31.33 | 411 | 31.28 | 412 |
| 80 | 0 | 0 | 0 | 0.629 | 31.41 | 410 | 31.36 | 411 |
| 90 | 0 | 0 | 0 | 0.629 | 31.49 | 409 | 31.44 | 410 |
| 100 | 0 | 0 | 0 | 0.629 | 31.56 | 409 | 31.52 | 409 |
| 110 | 0 | 0 | 0 | 0.629 | 31.64 | 408 | 31.59 | 408 |
| 120 | 0 | 0 | 0 | 0.629 | 31.71 | 407 | 31.67 | 407 |
| 130 | 0 | 0 | 0 | 0.629 | 31.79 | 406 | 31.74 | 406 |
| 167 | 0 | 0 | 0 | 0.629 | 32.05 | 403 | 31.99 | 403 |
| 212 | 0 | 0 | 0 | 0.629 | 32.35 | 399 | 32.3 | 400 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 3.13 | 50.94 | 2000 | 50.94 | 2000* |
| 20 | 0 | 0 | 0 | 0.629 | 49.79 | 411 | 49.73 | 411 |
| 30 | 0 | 0 | 0 | 0.629 | 49.87 | 410 | 49.81 | 410 |
| 40 | 0 | 0 | 0 | 0.629 | 49.94 | 409 | 49.89 | 410 |
| 50 | 0 | 0 | 0 | 0.629 | 50.02 | 409 | 49.96 | 409 |
| 60 | 0 | 0 | 0 | 0.629 | 50.09 | 408 | 50.04 | 409 |
| 70 | 0 | 0 | 0 | 0.629 | 50.17 | 408 | 50.12 | 408 |
| 80 | 0 | 0 | 0 | 0.629 | 50.25 | 407 | 50.2 | 407 |
| 90 | 0 | 0 | 0 | 0.629 | 50.32 | 406 | 50.27 | 407 |
| 100 | 0 | 0 | 0 | 0.629 | 50.4 | 406 | 50.35 | 406 |
| 110 | 0 | 0 | 0 | 0.629 | 50.47 | 405 | 50.43 | 406 |
| 120 | 0 | 0 | 0 | 0.629 | 50.55 | 405 | 50.5 | 405 |
| 130 | 0 | 0 | 0 | 0.629 | 50.62 | 404 | 50.57 | 405 |
| 167 | 0 | 0 | 0 | 0.629 | 50.88 | 402 | 50.82 | 403 |
| 212 | 0 | 0 | 0 | 0.629 | 51.19 | 400 | 51.13 | 401 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-9 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 1-2 | 1-4 | 1-5 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 |
| 150.00 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-7 | 2-9 | 2-11 | 3-1 | 3-4 |
| 175.00 | 2-4 | 2-7 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 |
| 200.00 | 3-1 | 3-4 | 3-8 | 3-11 | 4-3 | 4-7 | 4-11 | 5-3 | 5-7 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 |
| 100.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 |
| 125.00 | 1-3 | 1-4 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 |
| 150.00 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 |
| 175.00 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-7 |
| 200.00 | 3-3 | 3-6 | 3-9 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.187

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 |
| 150.00 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 |
| 175.00 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 |
| 200.00 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 |
| 225.00 | 8-4 | 8-6 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 |
| 250.00 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 | 11-0 | 11-2 | 11-3 | 11-5 | 11-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 125.00 | 2-7 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 |
| 150.00 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 |
| 175.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 |
| 200.00 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 |
| 225.00 | 8-5 | 8-7 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-5 |
| 250.00 | 10-5 | 10-7 | 10-8 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-2 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 |
| 175.00 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 |
| 200.00 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 |
| 225.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 |
| 250.00 | 11-6 | 11-7 | 11-8 | 11-8 | 11-9 | 11-10 | 11-10 | 11-11 | 12-0 | 12-0 |
| 275.00 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-4 | 14-5 | 14-6 | 14-7 |
| 300.00 | 16-8 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 |
| 325.00 | 19-6 | 19-7 | 19-9 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 |
| 350.00 | 22-8 | 22-9 | 22-11 | 23-0 | 23-1 | 23-3 | 23-4 | 23-5 | 23-6 | 23-8 |
| 375.00 | 26-0 | 26-2 | 26-3 | 26-5 | 26-7 | 26-8 | 26-10 | 26-11 | 27-0 | 27-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 175.00 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 |
| 200.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 |
| 225.00 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 |
| 250.00 | 11-7 | 11-8 | 11-8 | 11-9 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 |
| 275.00 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 |
| 300.00 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 |
| 325.00 | 19-7 | 19-8 | 19-9 | 19-10 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 |
| 350.00 | 22-9 | 22-10 | 23-0 | 23-1 | 23-2 | 23-3 | 23-5 | 23-6 | 23-7 | 23-8 |
| 375.00 | 26-2 | 26-3 | 26-5 | 26-6 | 26-8 | 26-9 | 26-10 | 27-0 | 27-1 | 27-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 |
| 225.00 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 |
| 250.00 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 |
| 275.00 | 14-6 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-10 | 14-10 | 14-10 |
| 300.00 | 17-4 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-9 |
| 325.00 | 20-4 | 20-5 | 20-5 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-9 | 20-10 |
| 350.00 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 | 23-11 | 24-0 | 24-0 | 24-1 | 24-2 |
| 375.00 | 27-1 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-6 | 27-7 | 27-8 | 27-9 |
| 400.00 | 30-11 | 31-0 | 31-1 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 |
| 425.00 | 34-11 | 35-0 | 35-1 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 |
| 450.00 | 39-2 | 39-3 | 39-5 | 39-6 | 39-7 | 39-8 | 39-9 | 39-10 | 40-0 | 40-1 |
| 475.00 | 43-8 | 43-10 | 43-11 | 44-0 | 44-2 | 44-3 | 44-4 | 44-6 | 44-7 | 44-8 |
| 500.00 | 48-6 | 48-7 | 48-9 | 48-10 | 49-0 | 49-1 | 49-3 | 49-4 | 49-6 | 49-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-8 | 7-9 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 |
| 225.00 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 9-11 |
| 250.00 | 12-0 | 12-1 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 |
| 275.00 | 14-7 | 14-7 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 |
| 300.00 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 |
| 325.00 | 20-5 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-9 | 20-10 |
| 350.00 | 23-8 | 23-9 | 23-9 | 23-10 | 23-11 | 23-11 | 24-0 | 24-1 | 24-1 | 24-2 |
| 375.00 | 27-2 | 27-3 | 27-4 | 27-5 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-9 |
| 400.00 | 30-11 | 31-0 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 |
| 425.00 | 35-0 | 35-1 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 |
| 450.00 | 39-3 | 39-4 | 39-5 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-2 |
| 475.00 | 43-9 | 43-11 | 44-0 | 44-1 | 44-3 | 44-4 | 44-5 | 44-7 | 44-8 | 44-9 |
| 500.00 | 48-7 | 48-8 | 48-10 | 48-11 | 49-1 | 49-2 | 49-4 | 49-5 | 49-7 | 49-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-4 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 |
| 275.00 | 14-11 | 14-11 | 14-11 | 15-0 | 15-0 | 15-0 | 15-1 | 15-1 | 15-1 | 15-1 |
| 300.00 | 17-9 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 |
| 325.00 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-2 |
| 350.00 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 | 24-5 | 24-5 | 24-6 | 24-6 | 24-7 |
| 375.00 | 27-10 | 27-10 | 27-11 | 27-11 | 28-0 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 |
| 400.00 | 31-8 | 31-9 | 31-9 | 31-10 | 31-11 | 31-11 | 32-0 | 32-0 | 32-1 | 32-1 |
| 425.00 | 35-10 | 35-10 | 35-11 | 36-0 | 36-0 | 36-1 | 36-2 | 36-2 | 36-3 | 36-4 |
| 450.00 | 40-2 | 40-3 | 40-4 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 | 40-8 | 40-9 |
| 475.00 | 44-10 | 44-11 | 45-0 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 | 45-5 | 45-5 |
| 500.00 | 49-9 | 49-10 | 49-11 | 50-0 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 |
| 525.00 | 54-11 | 55-0 | 55-1 | 55-2 | 55-3 | 55-4 | 55-5 | 55-6 | 55-7 | 55-8 |
| 550.00 | 60-4 | 60-5 | 60-6 | 60-7 | 60-9 | 60-10 | 60-11 | 61-0 | 61-1 | 61-2 |
| 575.00 | 66-0 | 66-2 | 66-3 | 66-4 | 66-5 | 66-7 | 66-8 | 66-9 | 66-10 | 67-0 |
| 600.00 | 72-0 | 72-2 | 72-3 | 72-4 | 72-6 | 72-7 | 72-8 | 72-10 | 72-11 | 73-0 |
| 625.00 | 78-3 | 78-5 | 78-6 | 78-8 | 78-9 | 78-11 | 79-0 | 79-2 | 79-3 | 79-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 |
| 275.00 | 14-11 | 14-11 | 15-0 | 15-0 | 15-0 | 15-0 | 15-1 | 15-1 | 15-1 | 15-2 |
| 300.00 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 |
| 325.00 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-2 | 21-2 |
| 350.00 | 24-3 | 24-3 | 24-4 | 24-4 | 24-5 | 24-5 | 24-5 | 24-6 | 24-6 | 24-7 |
| 375.00 | 27-10 | 27-11 | 27-11 | 28-0 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 | 28-3 |
| 400.00 | 31-9 | 31-9 | 31-10 | 31-10 | 31-11 | 32-0 | 32-0 | 32-1 | 32-1 | 32-2 |
| 425.00 | 35-10 | 35-11 | 35-11 | 36-0 | 36-1 | 36-1 | 36-2 | 36-3 | 36-3 | 36-4 |
| 450.00 | 40-3 | 40-4 | 40-4 | 40-5 | 40-6 | 40-6 | 40-7 | 40-8 | 40-9 | 40-9 |
| 475.00 | 44-11 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-3 | 45-4 | 45-5 | 45-6 |
| 500.00 | 49-9 | 49-10 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 |
| 525.00 | 55-0 | 55-1 | 55-2 | 55-3 | 55-4 | 55-5 | 55-6 | 55-7 | 55-8 | 55-9 |
| 550.00 | 60-5 | 60-6 | 60-7 | 60-8 | 60-9 | 60-10 | 61-0 | 61-1 | 61-2 | 61-3 |
| 575.00 | 66-1 | 66-3 | 66-4 | 66-5 | 66-6 | 66-8 | 66-9 | 66-10 | 66-11 | 67-0 |
| 600.00 | 72-1 | 72-3 | 72-4 | 72-5 | 72-7 | 72-8 | 72-9 | 72-11 | 73-0 | 73-1 |
| 625.00 | 78-4 | 78-6 | 78-7 | 78-9 | 78-10 | 79-0 | 79-1 | 79-3 | 79-4 | 79-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 3.94 | 1000 | 3.94 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 3.62 | 218 | 3.6 | 219 |
| 30 | 0 | 0 | 0 | 0.629 | 3.74 | 211 | 3.73 | 212 |
| 40 | 0 | 0 | 0 | 0.629 | 3.78 | 209 | 3.77 | 210 |
| 50 | 0 | 0 | 0 | 0.629 | 3.82 | 207 | 3.81 | 208 |
| 60 | 0 | 0 | 0 | 0.629 | 3.86 | 205 | 3.84 | 206 |
| 70 | 0 | 0 | 0 | 0.629 | 3.9 | 203 | 3.88 | 204 |
| 80 | 0 | 0 | 0 | 0.629 | 3.93 | 201 | 3.92 | 202 |
| 90 | 0 | 0 | 0 | 0.629 | 3.97 | 199 | 3.96 | 200 |
| 100 | 0 | 0 | 0 | 0.629 | 4.01 | 198 | 3.99 | 198 |
| 110 | 0 | 0 | 0 | 0.629 | 4.04 | 196 | 4.02 | 197 |
| 120 | 0 | 0 | 0 | 0.629 | 4.08 | 194 | 4.06 | 195 |
| 130 | 0 | 0 | 0 | 0.629 | 4.11 | 193 | 4.09 | 193 |
| 167 | 0 | 0 | 0 | 0.629 | 4.23 | 187 | 4.21 | 188 |
| 212 | 0 | 0 | 0 | 0.629 | 4.37 | 181 | 4.35 | 182 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 16.05 | 1000 | 16.05 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 15.75 | 205 | 15.73 | 205 |
| 30 | 0 | 0 | 0 | 0.629 | 15.86 | 203 | 15.85 | 203 |
| 40 | 0 | 0 | 0 | 0.629 | 15.9 | 203 | 15.88 | 203 |
| 50 | 0 | 0 | 0 | 0.629 | 15.94 | 202 | 15.92 | 203 |
| 60 | 0 | 0 | 0 | 0.629 | 15.97 | 202 | 15.96 | 202 |
| 70 | 0 | 0 | 0 | 0.629 | 16.01 | 201 | 16 | 202 |
| 80 | 0 | 0 | 0 | 0.629 | 16.05 | 201 | 16.04 | 201 |
| 90 | 0 | 0 | 0 | 0.629 | 16.09 | 201 | 16.08 | 201 |
| 100 | 0 | 0 | 0 | 0.629 | 16.12 | 200 | 16.11 | 200 |
| 110 | 0 | 0 | 0 | 0.629 | 16.16 | 200 | 16.14 | 200 |
| 120 | 0 | 0 | 0 | 0.629 | 16.2 | 199 | 16.18 | 200 |
| 130 | 0 | 0 | 0 | 0.629 | 16.23 | 199 | 16.21 | 199 |
| 167 | 0 | 0 | 0 | 0.629 | 16.35 | 197 | 16.34 | 198 |
| 212 | 0 | 0 | 0 | 0.629 | 16.51 | 196 | 16.49 | 196 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 37.41 | 1000 | 37.41 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 37.11 | 202 | 37.09 | 203 |
| 30 | 0 | 0 | 0 | 0.629 | 37.22 | 202 | 37.21 | 202 |
| 40 | 0 | 0 | 0 | 0.629 | 37.26 | 202 | 37.24 | 202 |
| 50 | 0 | 0 | 0 | 0.629 | 37.3 | 202 | 37.28 | 202 |
| 60 | 0 | 0 | 0 | 0.629 | 37.33 | 201 | 37.32 | 201 |
| 70 | 0 | 0 | 0 | 0.629 | 37.37 | 201 | 37.36 | 201 |
| 80 | 0 | 0 | 0 | 0.629 | 37.41 | 201 | 37.4 | 201 |
| 90 | 0 | 0 | 0 | 0.629 | 37.45 | 201 | 37.43 | 201 |
| 100 | 0 | 0 | 0 | 0.629 | 37.48 | 201 | 37.47 | 201 |
| 110 | 0 | 0 | 0 | 0.629 | 37.52 | 200 | 37.5 | 201 |
| 120 | 0 | 0 | 0 | 0.629 | 37.55 | 200 | 37.54 | 200 |
| 130 | 0 | 0 | 0 | 0.629 | 37.59 | 200 | 37.57 | 200 |
| 167 | 0 | 0 | 0 | 0.629 | 37.71 | 200 | 37.7 | 200 |
| 212 | 0 | 0 | 0 | 0.629 | 37.87 | 199 | 37.85 | 199 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 70.43 | 1000 | 70.43 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 70.13 | 202 | 70.11 | 202 |
| 30 | 0 | 0 | 0 | 0.629 | 70.24 | 201 | 70.23 | 201 |
| 40 | 0 | 0 | 0 | 0.629 | 70.28 | 201 | 70.26 | 201 |
| 50 | 0 | 0 | 0 | 0.629 | 70.32 | 201 | 70.3 | 201 |
| 60 | 0 | 0 | 0 | 0.629 | 70.35 | 201 | 70.34 | 201 |
| 70 | 0 | 0 | 0 | 0.629 | 70.39 | 201 | 70.38 | 201 |
| 80 | 0 | 0 | 0 | 0.629 | 70.43 | 201 | 70.42 | 201 |
| 90 | 0 | 0 | 0 | 0.629 | 70.46 | 201 | 70.45 | 201 |
| 100 | 0 | 0 | 0 | 0.629 | 70.5 | 201 | 70.49 | 201 |
| 110 | 0 | 0 | 0 | 0.629 | 70.54 | 201 | 70.52 | 201 |
| 120 | 0 | 0 | 0 | 0.629 | 70.57 | 201 | 70.55 | 201 |
| 130 | 0 | 0 | 0 | 0.629 | 70.61 | 201 | 70.59 | 201 |
| 167 | 0 | 0 | 0 | 0.629 | 70.73 | 200 | 70.71 | 200 |
| 212 | 0 | 0 | 0 | 0.629 | 70.88 | 200 | 70.87 | 200 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 121.11 | 1000 | 121.11 | 1000* |
| 0 | 0 | 0 | 0 | 0.629 | 120.81 | 201 | 120.79 | 201 |
| 30 | 0 | 0 | 0 | 0.629 | 120.92 | 201 | 120.9 | 201 |
| 40 | 0 | 0 | 0 | 0.629 | 120.96 | 201 | 120.94 | 201 |
| 50 | 0 | 0 | 0 | 0.629 | 120.99 | 201 | 120.98 | 201 |
| 60 | 0 | 0 | 0 | 0.629 | 121.03 | 201 | 121.02 | 201 |
| 70 | 0 | 0 | 0 | 0.629 | 121.06 | 201 | 121.05 | 201 |
| 80 | 0 | 0 | 0 | 0.629 | 121.1 | 201 | 121.09 | 201 |
| 90 | 0 | 0 | 0 | 0.629 | 121.14 | 201 | 121.13 | 201 |
| 100 | 0 | 0 | 0 | 0.629 | 121.17 | 201 | 121.16 | 201 |
| 110 | 0 | 0 | 0 | 0.629 | 121.21 | 201 | 121.19 | 201 |
| 120 | 0 | 0 | 0 | 0.629 | 121.24 | 201 | 121.23 | 201 |
| 130 | 0 | 0 | 0 | 0.629 | 121.28 | 201 | 121.26 | 201 |
| 167 | 0 | 0 | 0 | 0.629 | 121.4 | 201 | 121.38 | 201 |
| 212 | 0 | 0 | 0 | 0.629 | 121.55 | 201 | 121.53 | 201 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 |
| 100.00 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 |
| 125.00 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 |
| 150.00 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 |
| 175.00 | 11-4 | 11-5 | 11-7 | 11-8 | 11-10 | 11-11 | 12-1 | 12-2 | 12-3 | 12-5 |
| 200.00 | 14-10 | 15-0 | 15-2 | 15-4 | 15-6 | 15-8 | 15-9 | 15-11 | 16-1 | 16-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 |
| 100.00 | 3-8 | 3-9 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 |
| 125.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-3 | 6-4 |
| 150.00 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 |
| 175.00 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 12-0 | 12-1 | 12-3 | 12-4 | 12-5 |
| 200.00 | 14-11 | 15-1 | 15-3 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 |
| 125.00 | 6-2 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-3 |
| 150.00 | 8-10 | 8-11 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-0 | 9-1 |
| 175.00 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 |
| 200.00 | 15-10 | 15-10 | 15-11 | 15-11 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-2 |
| 225.00 | 20-1 | 20-1 | 20-2 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 | 20-5 | 20-6 |
| 250.00 | 24-10 | 24-10 | 24-11 | 25-0 | 25-1 | 25-1 | 25-2 | 25-3 | 25-3 | 25-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 |
| 125.00 | 6-2 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-3 |
| 150.00 | 8-10 | 8-11 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-0 | 9-1 |
| 175.00 | 12-1 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 |
| 200.00 | 15-10 | 15-10 | 15-11 | 15-11 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-2 |
| 225.00 | 20-1 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-5 | 20-5 | 20-6 |
| 250.00 | 24-10 | 24-11 | 24-11 | 25-0 | 25-1 | 25-2 | 25-2 | 25-3 | 25-4 | 25-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 | 9-3 |
| 175.00 | 12-6 | 12-6 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 | 12-7 | 12-7 |
| 200.00 | 16-4 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 |
| 225.00 | 20-9 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 | 20-11 | 20-11 |
| 250.00 | 25-8 | 25-8 | 25-9 | 25-9 | 25-9 | 25-9 | 25-10 | 25-10 | 25-10 | 25-11 |
| 275.00 | 31-2 | 31-2 | 31-2 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-5 | 31-5 |
| 300.00 | 37-2 | 37-2 | 37-3 | 37-3 | 37-4 | 37-4 | 37-5 | 37-5 | 37-6 | 37-6 |
| 325.00 | 43-9 | 43-10 | 43-10 | 43-11 | 43-11 | 44-0 | 44-1 | 44-1 | 44-2 | 44-2 |
| 350.00 | 50-11 | 51-0 | 51-1 | 51-1 | 51-2 | 51-3 | 51-3 | 51-4 | 51-4 | 51-5 |
| 375.00 | 58-9 | 58-9 | 58-10 | 58-11 | 59-0 | 59-0 | 59-1 | 59-2 | 59-2 | 59-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 | 9-3 |
| 175.00 | 12-6 | 12-6 | 12-6 | 12-6 | 12-6 | 12-7 | 12-7 | 12-7 | 12-7 | 12-7 |
| 200.00 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 |
| 225.00 | 20-9 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 |
| 250.00 | 25-8 | 25-8 | 25-9 | 25-9 | 25-9 | 25-10 | 25-10 | 25-10 | 25-10 | 25-11 |
| 275.00 | 31-2 | 31-2 | 31-3 | 31-3 | 31-3 | 31-4 | 31-4 | 31-4 | 31-5 | 31-5 |
| 300.00 | 37-2 | 37-3 | 37-3 | 37-4 | 37-4 | 37-4 | 37-5 | 37-5 | 37-6 | 37-6 |
| 325.00 | 43-9 | 43-10 | 43-11 | 43-11 | 44-0 | 44-0 | 44-1 | 44-1 | 44-2 | 44-2 |
| 350.00 | 51-0 | 51-0 | 51-1 | 51-2 | 51-2 | 51-3 | 51-3 | 51-4 | 51-5 | 51-5 |
| 375.00 | 58-9 | 58-10 | 58-10 | 58-11 | 59-0 | 59-1 | 59-1 | 59-2 | 59-3 | 59-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.197

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-2 |
| 225.00 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-9 | 21-9 | 21-9 |
| 250.00 | 26-10 | 26-10 | 26-10 | 26-10 | 26-10 | 26-10 | 26-11 | 26-11 | 26-11 | 26-11 |
| 275.00 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 | 32-7 | 32-7 | 32-8 | 32-8 | 32-8 |
| 300.00 | 38-10 | 38-10 | 38-10 | 38-11 | 38-11 | 38-11 | 38-11 | 39-0 | 39-0 | 39-0 |
| 325.00 | 45-9 | 45-9 | 45-10 | 45-10 | 45-10 | 45-10 | 45-11 | 45-11 | 45-11 | 45-11 |
| 350.00 | 53-3 | 53-4 | 53-4 | 53-4 | 53-5 | 53-5 | 53-5 | 53-6 | 53-6 | 53-6 |
| 375.00 | 61-5 | 61-5 | 61-6 | 61-6 | 61-6 | 61-7 | 61-7 | 61-8 | 61-8 | 61-8 |
| 400.00 | 70-2 | 70-3 | 70-3 | 70-4 | 70-4 | 70-5 | 70-5 | 70-5 | 70-6 | 70-6 |
| 425.00 | 79-7 | 79-8 | 79-9 | 79-9 | 79-10 | 79-10 | 79-11 | 79-11 | 80-0 | 80-0 |
| 450.00 | 89-9 | 89-9 | 89-10 | 89-11 | 89-11 | 90-0 | 90-0 | 90-1 | 90-1 | 90-2 |
| 475.00 | 100-6 | 100-7 | 100-8 | 100-8 | 100-9 | 100-10 | 100-10 | 100-11 | 101-0 | 101-0 |
| 500.00 | 112-0 | 112-1 | 112-2 | 112-2 | 112-3 | 112-4 | 112-5 | 112-5 | 112-6 | 112-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-1 | 17-2 | 17-2 |
| 225.00 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-8 | 21-9 | 21-9 | 21-9 | 21-9 |
| 250.00 | 26-10 | 26-10 | 26-10 | 26-10 | 26-10 | 26-10 | 26-11 | 26-11 | 26-11 | 26-11 |
| 275.00 | 32-6 | 32-7 | 32-7 | 32-7 | 32-7 | 32-7 | 32-8 | 32-8 | 32-8 | 32-8 |
| 300.00 | 38-10 | 38-10 | 38-11 | 38-11 | 38-11 | 38-11 | 39-0 | 39-0 | 39-0 | 39-0 |
| 325.00 | 45-9 | 45-9 | 45-10 | 45-10 | 45-10 | 45-10 | 45-11 | 45-11 | 45-11 | 46-0 |
| 350.00 | 53-3 | 53-4 | 53-4 | 53-4 | 53-5 | 53-5 | 53-5 | 53-6 | 53-6 | 53-6 |
| 375.00 | 61-5 | 61-5 | 61-6 | 61-6 | 61-7 | 61-7 | 61-7 | 61-8 | 61-8 | 61-9 |
| 400.00 | 70-2 | 70-3 | 70-3 | 70-4 | 70-4 | 70-5 | 70-5 | 70-6 | 70-6 | 70-6 |
| 425.00 | 79-8 | 79-8 | 79-9 | 79-9 | 79-10 | 79-10 | 79-11 | 79-11 | 80-0 | 80-0 |
| 450.00 | 89-9 | 89-10 | 89-10 | 89-11 | 89-11 | 90-0 | 90-0 | 90-1 | 90-2 | 90-2 |
| 475.00 | 100-7 | 100-7 | 100-8 | 100-8 | 100-9 | 100-10 | 100-10 | 100-11 | 101-0 | 101-0 |
| 500.00 | 112-1 | 112-1 | 112-2 | 112-3 | 112-3 | 112-4 | 112-5 | 112-6 | 112-6 | 112-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-10 |
| 275.00 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 35-0 | 35-0 |
| 300.00 | 41-8 | 41-8 | 41-8 | 41-9 | 41-9 | 41-9 | 41-9 | 41-9 | 41-9 | 41-9 |
| 325.00 | 49-1 | 49-2 | 49-2 | 49-2 | 49-2 | 49-2 | 49-2 | 49-3 | 49-3 | 49-3 |
| 350.00 | 57-3 | 57-3 | 57-3 | 57-3 | 57-3 | 57-4 | 57-4 | 57-4 | 57-4 | 57-4 |
| 375.00 | 66-0 | 66-0 | 66-1 | 66-1 | 66-1 | 66-1 | 66-2 | 66-2 | 66-2 | 66-2 |
| 400.00 | 75-6 | 75-6 | 75-7 | 75-7 | 75-7 | 75-7 | 75-8 | 75-8 | 75-8 | 75-8 |
| 425.00 | 85-9 | 85-9 | 85-9 | 85-9 | 85-10 | 85-10 | 85-10 | 85-11 | 85-11 | 85-11 |
| 450.00 | 96-8 | 96-8 | 96-9 | 96-9 | 96-9 | 96-10 | 96-10 | 96-10 | 96-11 | 96-11 |
| 475.00 | 108-4 | 108-5 | 108-5 | 108-6 | 108-6 | 108-6 | 108-7 | 108-7 | 108-8 | 108-8 |
| 500.00 | 120-10 | 120-11 | 120-11 | 121-0 | 121-0 | 121-1 | 121-1 | 121-2 | 121-2 | 121-2 |
| 525.00 | 134-2 | 134-3 | 134-3 | 134-4 | 134-4 | 134-5 | 134-5 | 134-6 | 134-6 | 134-7 |
| 550.00 | 148-4 | 148-4 | 148-5 | 148-6 | 148-6 | 148-7 | 148-7 | 148-8 | 148-8 | 148-9 |
| 575.00 | 163-4 | 163-5 | 163-5 | 163-6 | 163-7 | 163-7 | 163-8 | 163-8 | 163-9 | 163-10 |
| 600.00 | 179-3 | 179-4 | 179-4 | 179-5 | 179-6 | 179-7 | 179-7 | 179-8 | 179-9 | 179-9 |
| 625.00 | 196-1 | 196-2 | 196-3 | 196-3 | 196-4 | 196-5 | 196-6 | 196-7 | 196-7 | 196-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 | 28-10 | 28-10 |
| 275.00 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 34-11 | 35-0 | 35-0 |
| 300.00 | 41-8 | 41-8 | 41-8 | 41-9 | 41-9 | 41-9 | 41-9 | 41-9 | 41-9 | 41-9 |
| 325.00 | 49-1 | 49-2 | 49-2 | 49-2 | 49-2 | 49-2 | 49-2 | 49-3 | 49-3 | 49-3 |
| 350.00 | 57-3 | 57-3 | 57-3 | 57-3 | 57-4 | 57-4 | 57-4 | 57-4 | 57-4 | 57-5 |
| 375.00 | 66-0 | 66-0 | 66-1 | 66-1 | 66-1 | 66-1 | 66-2 | 66-2 | 66-2 | 66-2 |
| 400.00 | 75-6 | 75-6 | 75-7 | 75-7 | 75-7 | 75-7 | 75-8 | 75-8 | 75-8 | 75-9 |
| 425.00 | 85-9 | 85-9 | 85-9 | 85-10 | 85-10 | 85-10 | 85-10 | 85-11 | 85-11 | 85-11 |
| 450.00 | 96-8 | 96-8 | 96-9 | 96-9 | 96-9 | 96-10 | 96-10 | 96-10 | 96-11 | 96-11 |
| 475.00 | 108-5 | 108-5 | 108-5 | 108-6 | 108-6 | 108-7 | 108-7 | 108-7 | 108-8 | 108-8 |
| 500.00 | 120-11 | 120-11 | 120-11 | 121-0 | 121-0 | 121-1 | 121-1 | 121-2 | 121-2 | 121-3 |
| 525.00 | 134-2 | 134-3 | 134-3 | 134-4 | 134-4 | 134-5 | 134-5 | 134-6 | 134-6 | 134-7 |
| 550.00 | 148-4 | 148-5 | 148-5 | 148-6 | 148-6 | 148-7 | 148-7 | 148-8 | 148-9 | 148-9 |
| 575.00 | 163-4 | 163-5 | 163-6 | 163-6 | 163-7 | 163-7 | 163-8 | 163-9 | 163-9 | 163-10 |
| 600.00 | 179-3 | 179-4 | 179-5 | 179-5 | 179-6 | 179-7 | 179-7 | 179-8 | 179-9 | 179-9 |
| 625.00 | 196-1 | 196-2 | 196-3 | 196-4 | 196-5 | 196-5 | 196-6 | 196-7 | 196-8 | 196-8 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 2.62 | 1500 | 2.62 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 1.94 | 406 | 1.9 | 414 |
| 30 | 0 | 0 | 0 | 0.629 | 2.14 | 368 | 2.1 | 374 |
| 40 | 0 | 0 | 0 | 0.629 | 2.2 | 358 | 2.17 | 363 |
| 50 | 0 | 0 | 0 | 0.629 | 2.26 | 348 | 2.23 | 353 |
| 60 | 0 | 0 | 0 | 0.629 | 2.32 | 339 | 2.29 | 344 |
| 70 | 0 | 0 | 0 | 0.629 | 2.38 | 331 | 2.35 | 335 |
| 80 | 0 | 0 | 0 | 0.629 | 2.44 | 323 | 2.41 | 327 |
| 90 | 0 | 0 | 0 | 0.629 | 2.5 | 316 | 2.47 | 319 |
| 100 | 0 | 0 | 0 | 0.629 | 2.55 | 309 | 2.53 | 312 |
| 110 | 0 | 0 | 0 | 0.629 | 2.61 | 302 | 2.58 | 306 |
| 120 | 0 | 0 | 0 | 0.629 | 2.66 | 296 | 2.63 | 300 |
| 130 | 0 | 0 | 0 | 0.629 | 2.71 | 291 | 2.68 | 295 |
| 167 | 0 | 0 | 0 | 0.629 | 2.88 | 274 | 2.85 | 277 |
| 212 | 0 | 0 | 0 | 0.629 | 3.08 | 257 | 3.05 | 259 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 10.55 | 1500 | 10.55 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 9.91 | 321 | 9.87 | 322 |
| 30 | 0 | 0 | 0 | 0.629 | 10.08 | 315 | 10.05 | 316 |
| 40 | 0 | 0 | 0 | 0.629 | 10.14 | 313 | 10.11 | 314 |
| 50 | 0 | 0 | 0 | 0.629 | 10.2 | 312 | 10.17 | 313 |
| 60 | 0 | 0 | 0 | 0.629 | 10.26 | 310 | 10.23 | 311 |
| 70 | 0 | 0 | 0 | 0.629 | 10.31 | 308 | 10.29 | 309 |
| 80 | 0 | 0 | 0 | 0.629 | 10.37 | 307 | 10.34 | 307 |
| 90 | 0 | 0 | 0 | 0.629 | 10.43 | 305 | 10.4 | 306 |
| 100 | 0 | 0 | 0 | 0.629 | 10.48 | 303 | 10.46 | 304 |
| 110 | 0 | 0 | 0 | 0.629 | 10.54 | 302 | 10.51 | 303 |
| 120 | 0 | 0 | 0 | 0.629 | 10.6 | 300 | 10.56 | 301 |
| 130 | 0 | 0 | 0 | 0.629 | 10.65 | 299 | 10.61 | 300 |
| 167 | 0 | 0 | 0 | 0.629 | 10.83 | 294 | 10.8 | 295 |
| 212 | 0 | 0 | 0 | 0.629 | 11.05 | 288 | 11.02 | 289 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 24.08 | 1500 | 24.08 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 23.44 | 309 | 23.41 | 310 |
| 30 | 0 | 0 | 0 | 0.629 | 23.62 | 307 | 23.58 | 307 |
| 40 | 0 | 0 | 0 | 0.629 | 23.67 | 306 | 23.64 | 307 |
| 50 | 0 | 0 | 0 | 0.629 | 23.73 | 306 | 23.7 | 306 |
| 60 | 0 | 0 | 0 | 0.629 | 23.79 | 305 | 23.76 | 305 |
| 70 | 0 | 0 | 0 | 0.629 | 23.84 | 304 | 23.82 | 305 |
| 80 | 0 | 0 | 0 | 0.629 | 23.9 | 304 | 23.88 | 304 |
| 90 | 0 | 0 | 0 | 0.629 | 23.96 | 303 | 23.93 | 303 |
| 100 | 0 | 0 | 0 | 0.629 | 24.01 | 302 | 23.99 | 303 |
| 110 | 0 | 0 | 0 | 0.629 | 24.07 | 302 | 24.04 | 302 |
| 120 | 0 | 0 | 0 | 0.629 | 24.13 | 301 | 24.09 | 301 |
| 130 | 0 | 0 | 0 | 0.629 | 24.18 | 300 | 24.14 | 301 |
| 167 | 0 | 0 | 0 | 0.629 | 24.37 | 298 | 24.33 | 298 |
| 212 | 0 | 0 | 0 | 0.629 | 24.6 | 295 | 24.56 | 296 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 43.73 | 1500 | 43.73 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 43.1 | 305 | 43.07 | 306 |
| 30 | 0 | 0 | 0 | 0.629 | 43.27 | 304 | 43.24 | 305 |
| 40 | 0 | 0 | 0 | 0.629 | 43.33 | 304 | 43.3 | 304 |
| 50 | 0 | 0 | 0 | 0.629 | 43.39 | 304 | 43.36 | 304 |
| 60 | 0 | 0 | 0 | 0.629 | 43.44 | 303 | 43.41 | 303 |
| 70 | 0 | 0 | 0 | 0.629 | 43.5 | 303 | 43.47 | 303 |
| 80 | 0 | 0 | 0 | 0.629 | 43.56 | 303 | 43.53 | 303 |
| 90 | 0 | 0 | 0 | 0.629 | 43.61 | 302 | 43.59 | 302 |
| 100 | 0 | 0 | 0 | 0.629 | 43.67 | 302 | 43.64 | 302 |
| 110 | 0 | 0 | 0 | 0.629 | 43.73 | 302 | 43.7 | 302 |
| 120 | 0 | 0 | 0 | 0.629 | 43.78 | 301 | 43.75 | 301 |
| 130 | 0 | 0 | 0 | 0.629 | 43.83 | 301 | 43.8 | 301 |
| 167 | 0 | 0 | 0 | 0.629 | 44.02 | 300 | 43.99 | 300 |
| 212 | 0 | 0 | 0 | 0.629 | 44.25 | 298 | 44.22 | 298 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 70.41 | 1500 | 70.41 | 1500* |
| 0 | 0 | 0 | 0 | 0.629 | 69.78 | 304 | 69.74 | 304 |
| 30 | 0 | 0 | 0 | 0.629 | 69.95 | 303 | 69.92 | 303 |
| 40 | 0 | 0 | 0 | 0.629 | 70.01 | 303 | 69.98 | 303 |
| 50 | 0 | 0 | 0 | 0.629 | 70.06 | 303 | 70.03 | 303 |
| 60 | 0 | 0 | 0 | 0.629 | 70.12 | 303 | 70.09 | 303 |
| 70 | 0 | 0 | 0 | 0.629 | 70.18 | 302 | 70.15 | 302 |
| 80 | 0 | 0 | 0 | 0.629 | 70.23 | 302 | 70.21 | 302 |
| 90 | 0 | 0 | 0 | 0.629 | 70.29 | 302 | 70.26 | 302 |
| 100 | 0 | 0 | 0 | 0.629 | 70.34 | 302 | 70.32 | 302 |
| 110 | 0 | 0 | 0 | 0.629 | 70.4 | 301 | 70.37 | 302 |
| 120 | 0 | 0 | 0 | 0.629 | 70.46 | 301 | 70.42 | 301 |
| 130 | 0 | 0 | 0 | 0.629 | 70.51 | 301 | 70.47 | 301 |
| 167 | 0 | 0 | 0 | 0.629 | 70.7 | 300 | 70.66 | 301 |
| 212 | 0 | 0 | 0 | 0.629 | 70.93 | 300 | 70.89 | 300 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 |
| 100.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 |
| 125.00 | 3-2 | 3-3 | 3-5 | 3-6 | 3-7 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 |
| 150.00 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-4 | 5-5 | 5-7 | 5-8 | 5-10 |
| 175.00 | 6-3 | 6-5 | 6-8 | 6-10 | 7-0 | 7-3 | 7-5 | 7-7 | 7-9 | 7-11 |
| 200.00 | 8-2 | 8-5 | 8-8 | 8-11 | 9-2 | 9-5 | 9-8 | 9-11 | 10-2 | 10-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 |
| 100.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-7 |
| 125.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 |
| 150.00 | 4-8 | 4-10 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 |
| 175.00 | 6-4 | 6-7 | 6-9 | 6-11 | 7-1 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 |
| 200.00 | 8-4 | 8-7 | 8-10 | 9-1 | 9-4 | 9-7 | 9-9 | 10-0 | 10-3 | 10-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.203

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 |
| 125.00 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 |
| 150.00 | 5-7 | 5-8 | 5-8 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 |
| 175.00 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 |
| 200.00 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-6 | 10-6 |
| 225.00 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 |
| 250.00 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-5 | 16-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 | 2-8 |
| 125.00 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-1 |
| 150.00 | 5-8 | 5-8 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 |
| 175.00 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 |
| 200.00 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-6 |
| 225.00 | 12-8 | 12-9 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 |
| 250.00 | 15-8 | 15-9 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.204

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 |
| 175.00 | 8-0 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-1 | 8-2 |
| 200.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 |
| 225.00 | 13-2 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 | 13-6 |
| 250.00 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 |
| 275.00 | 19-9 | 19-9 | 19-10 | 19-11 | 19-11 | 20-0 | 20-0 | 20-1 | 20-2 | 20-2 |
| 300.00 | 23-6 | 23-7 | 23-8 | 23-8 | 23-9 | 23-10 | 23-11 | 23-11 | 24-0 | 24-1 |
| 325.00 | 27-8 | 27-9 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-2 | 28-3 |
| 350.00 | 32-1 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 |
| 375.00 | 36-11 | 37-0 | 37-1 | 37-2 | 37-4 | 37-5 | 37-6 | 37-7 | 37-8 | 37-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 |
| 175.00 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 |
| 200.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-7 | 10-8 |
| 225.00 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 |
| 250.00 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 |
| 275.00 | 19-9 | 19-10 | 19-10 | 19-11 | 20-0 | 20-0 | 20-1 | 20-1 | 20-2 | 20-2 |
| 300.00 | 23-7 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 | 23-11 | 23-11 | 24-0 | 24-1 |
| 325.00 | 27-8 | 27-9 | 27-10 | 27-11 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 | 28-3 |
| 350.00 | 32-2 | 32-3 | 32-4 | 32-5 | 32-6 | 32-7 | 32-8 | 32-8 | 32-9 | 32-10 |
| 375.00 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 | 37-7 | 37-8 | 37-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-10 |
| 225.00 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-8 |
| 250.00 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 | 16-11 | 16-11 |
| 275.00 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-6 | 20-6 |
| 300.00 | 24-2 | 24-2 | 24-2 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 | 24-5 | 24-5 |
| 325.00 | 28-4 | 28-5 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 | 28-8 | 28-8 | 28-8 |
| 350.00 | 32-11 | 33-0 | 33-0 | 33-1 | 33-1 | 33-2 | 33-3 | 33-3 | 33-4 | 33-4 |
| 375.00 | 37-11 | 37-11 | 38-0 | 38-0 | 38-1 | 38-2 | 38-2 | 38-3 | 38-3 | 38-4 |
| 400.00 | 43-2 | 43-3 | 43-4 | 43-4 | 43-5 | 43-6 | 43-6 | 43-7 | 43-8 | 43-8 |
| 425.00 | 48-10 | 48-11 | 49-0 | 49-0 | 49-1 | 49-2 | 49-3 | 49-4 | 49-4 | 49-5 |
| 450.00 | 54-10 | 54-11 | 55-0 | 55-1 | 55-2 | 55-3 | 55-4 | 55-5 | 55-6 | 55-6 |
| 475.00 | 61-3 | 61-4 | 61-5 | 61-6 | 61-7 | 61-8 | 61-9 | 61-10 | 61-11 | 62-0 |
| 500.00 | 68-1 | 68-2 | 68-3 | 68-4 | 68-5 | 68-6 | 68-7 | 68-8 | 68-9 | 68-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-10 | 10-10 |
| 225.00 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-8 |
| 250.00 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 | 16-11 | 16-11 | 16-11 |
| 275.00 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-6 | 20-6 |
| 300.00 | 24-2 | 24-2 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 | 24-4 | 24-5 | 24-5 |
| 325.00 | 28-5 | 28-5 | 28-5 | 28-6 | 28-6 | 28-7 | 28-7 | 28-8 | 28-8 | 28-9 |
| 350.00 | 33-0 | 33-0 | 33-1 | 33-1 | 33-2 | 33-2 | 33-3 | 33-3 | 33-4 | 33-4 |
| 375.00 | 37-11 | 38-0 | 38-0 | 38-1 | 38-1 | 38-2 | 38-3 | 38-3 | 38-4 | 38-4 |
| 400.00 | 43-3 | 43-3 | 43-4 | 43-5 | 43-5 | 43-6 | 43-7 | 43-7 | 43-8 | 43-9 |
| 425.00 | 48-11 | 48-11 | 49-0 | 49-1 | 49-2 | 49-2 | 49-3 | 49-4 | 49-5 | 49-6 |
| 450.00 | 54-11 | 55-0 | 55-1 | 55-2 | 55-2 | 55-3 | 55-4 | 55-5 | 55-6 | 55-7 |
| 475.00 | 61-4 | 61-5 | 61-6 | 61-7 | 61-8 | 61-9 | 61-10 | 61-11 | 62-0 | 62-1 |
| 500.00 | 68-1 | 68-2 | 68-3 | 68-4 | 68-6 | 68-7 | 68-8 | 68-9 | 68-10 | 68-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-2 | 17-2 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 |
| 275.00 | 20-9 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 |
| 300.00 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 | 24-11 |
| 325.00 | 29-1 | 29-1 | 29-2 | 29-2 | 29-2 | 29-3 | 29-3 | 29-3 | 29-3 | 29-4 |
| 350.00 | 33-10 | 33-10 | 33-10 | 33-11 | 33-11 | 33-11 | 34-0 | 34-0 | 34-0 | 34-1 |
| 375.00 | 38-10 | 38-11 | 38-11 | 39-0 | 39-0 | 39-0 | 39-1 | 39-1 | 39-1 | 39-2 |
| 400.00 | 44-4 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 | 44-8 |
| 425.00 | 50-2 | 50-2 | 50-3 | 50-3 | 50-4 | 50-4 | 50-4 | 50-5 | 50-5 | 50-6 |
| 450.00 | 56-4 | 56-4 | 56-5 | 56-6 | 56-6 | 56-7 | 56-7 | 56-8 | 56-8 | 56-9 |
| 475.00 | 62-11 | 62-11 | 63-0 | 63-1 | 63-1 | 63-2 | 63-2 | 63-3 | 63-4 | 63-4 |
| 500.00 | 69-10 | 69-11 | 70-0 | 70-0 | 70-1 | 70-2 | 70-2 | 70-3 | 70-4 | 70-4 |
| 525.00 | 77-3 | 77-3 | 77-4 | 77-5 | 77-6 | 77-6 | 77-7 | 77-8 | 77-9 | 77-9 |
| 550.00 | 85-0 | 85-0 | 85-1 | 85-2 | 85-3 | 85-4 | 85-5 | 85-6 | 85-6 | 85-7 |
| 575.00 | 93-2 | 93-2 | 93-3 | 93-4 | 93-5 | 93-6 | 93-7 | 93-8 | 93-9 | 93-10 |
| 600.00 | 101-8 | 101-9 | 101-10 | 101-11 | 102-0 | 102-1 | 102-2 | 102-4 | 102-5 | 102-5 |
| 625.00 | 110-8 | 110-9 | 110-10 | 111-0 | 111-1 | 111-2 | 111-3 | 111-4 | 111-5 | 111-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-2 | 17-2 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 |
| 275.00 | 20-9 | 20-10 | 20-10 | 20-10 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 20-11 |
| 300.00 | 24-9 | 24-9 | 24-10 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 | 24-11 | 24-11 |
| 325.00 | 29-1 | 29-2 | 29-2 | 29-2 | 29-2 | 29-3 | 29-3 | 29-3 | 29-4 | 29-4 |
| 350.00 | 33-10 | 33-10 | 33-10 | 33-11 | 33-11 | 33-11 | 34-0 | 34-0 | 34-0 | 34-1 |
| 375.00 | 38-11 | 38-11 | 38-11 | 39-0 | 39-0 | 39-1 | 39-1 | 39-1 | 39-2 | 39-2 |
| 400.00 | 44-4 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-7 | 44-7 | 44-7 | 44-8 |
| 425.00 | 50-2 | 50-2 | 50-3 | 50-3 | 50-4 | 50-4 | 50-5 | 50-5 | 50-6 | 50-6 |
| 450.00 | 56-4 | 56-5 | 56-5 | 56-6 | 56-6 | 56-7 | 56-7 | 56-8 | 56-9 | 56-9 |
| 475.00 | 62-11 | 63-0 | 63-0 | 63-1 | 63-2 | 63-2 | 63-3 | 63-3 | 63-4 | 63-5 |
| 500.00 | 69-11 | 69-11 | 70-0 | 70-1 | 70-1 | 70-2 | 70-3 | 70-3 | 70-4 | 70-5 |
| 525.00 | 77-3 | 77-4 | 77-5 | 77-5 | 77-6 | 77-7 | 77-8 | 77-8 | 77-9 | 77-10 |
| 550.00 | 85-0 | 85-1 | 85-2 | 85-3 | 85-3 | 85-4 | 85-5 | 85-6 | 85-7 | 85-8 |
| 575.00 | 93-2 | 93-3 | 93-4 | 93-5 | 93-6 | 93-7 | 93-8 | 93-8 | 93-9 | 93-10 |
| 600.00 | 101-9 | 101-10 | 101-11 | 102-0 | 102-1 | 102-2 | 102-3 | 102-4 | 102-5 | 102-6 |
| 625.00 | 110-9 | 110-10 | 110-11 | 111-0 | 111-1 | 111-2 | 111-3 | 111-4 | 111-6 | 111-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 1.96 | 2000 | 1.96 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 0.87 | 901 | 0.83 | 943 |
| 30 | 0 | 0 | 0 | 0.629 | 1.11 | 712 | 1.06 | 745 |
| 40 | 0 | 0 | 0 | 0.629 | 1.19 | 663 | 1.13 | 693 |
| 50 | 0 | 0 | 0 | 0.629 | 1.27 | 621 | 1.22 | 647 |
| 60 | 0 | 0 | 0 | 0.629 | 1.35 | 584 | 1.3 | 607 |
| 70 | 0 | 0 | 0 | 0.629 | 1.43 | 551 | 1.38 | 571 |
| 80 | 0 | 0 | 0 | 0.629 | 1.51 | 522 | 1.46 | 540 |
| 90 | 0 | 0 | 0 | 0.629 | 1.58 | 497 | 1.54 | 512 |
| 100 | 0 | 0 | 0 | 0.629 | 1.66 | 474 | 1.61 | 488 |
| 110 | 0 | 0 | 0 | 0.629 | 1.73 | 454 | 1.69 | 466 |
| 120 | 0 | 0 | 0 | 0.629 | 1.81 | 436 | 1.76 | 447 |
| 130 | 0 | 0 | 0 | 0.629 | 1.87 | 420 | 1.83 | 431 |
| 167 | 0 | 0 | 0 | 0.629 | 2.1 | 375 | 2.05 | 384 |
| 212 | 0 | 0 | 0 | 0.629 | 2.35 | 336 | 2.3 | 342 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 7.87 | 2000 | 7.87 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 6.76 | 467 | 6.69 | 472 |
| 30 | 0 | 0 | 0 | 0.629 | 7.01 | 451 | 6.94 | 455 |
| 40 | 0 | 0 | 0 | 0.629 | 7.09 | 446 | 7.03 | 450 |
| 50 | 0 | 0 | 0 | 0.629 | 7.17 | 441 | 7.11 | 445 |
| 60 | 0 | 0 | 0 | 0.629 | 7.25 | 436 | 7.19 | 440 |
| 70 | 0 | 0 | 0 | 0.629 | 7.33 | 432 | 7.27 | 435 |
| 80 | 0 | 0 | 0 | 0.629 | 7.4 | 427 | 7.35 | 430 |
| 90 | 0 | 0 | 0 | 0.629 | 7.48 | 423 | 7.43 | 426 |
| 100 | 0 | 0 | 0 | 0.629 | 7.56 | 419 | 7.51 | 421 |
| 110 | 0 | 0 | 0 | 0.629 | 7.63 | 414 | 7.59 | 417 |
| 120 | 0 | 0 | 0 | 0.629 | 7.71 | 410 | 7.66 | 413 |
| 130 | 0 | 0 | 0 | 0.629 | 7.78 | 407 | 7.73 | 409 |
| 167 | 0 | 0 | 0 | 0.629 | 8.03 | 394 | 7.97 | 397 |
| 212 | 0 | 0 | 0 | 0.629 | 8.32 | 381 | 8.27 | 383 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 17.86 | 2000 | 17.86 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 16.76 | 427 | 16.7 | 429 |
| 30 | 0 | 0 | 0 | 0.629 | 17 | 422 | 16.94 | 423 |
| 40 | 0 | 0 | 0 | 0.629 | 17.08 | 420 | 17.02 | 421 |
| 50 | 0 | 0 | 0 | 0.629 | 17.16 | 418 | 17.1 | 419 |
| 60 | 0 | 0 | 0 | 0.629 | 17.23 | 416 | 17.18 | 417 |
| 70 | 0 | 0 | 0 | 0.629 | 17.31 | 414 | 17.26 | 416 |
| 80 | 0 | 0 | 0 | 0.629 | 17.39 | 412 | 17.33 | 414 |
| 90 | 0 | 0 | 0 | 0.629 | 17.46 | 411 | 17.41 | 412 |
| 100 | 0 | 0 | 0 | 0.629 | 17.54 | 409 | 17.49 | 410 |
| 110 | 0 | 0 | 0 | 0.629 | 17.61 | 407 | 17.57 | 408 |
| 120 | 0 | 0 | 0 | 0.629 | 17.69 | 406 | 17.64 | 407 |
| 130 | 0 | 0 | 0 | 0.629 | 17.76 | 404 | 17.71 | 405 |
| 167 | 0 | 0 | 0 | 0.629 | 18.01 | 399 | 17.96 | 400 |
| 212 | 0 | 0 | 0 | 0.629 | 18.31 | 392 | 18.26 | 393 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 32.11 | 2000 | 32.11 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 31.03 | 415 | 30.96 | 416 |
| 30 | 0 | 0 | 0 | 0.629 | 31.26 | 412 | 31.2 | 413 |
| 40 | 0 | 0 | 0 | 0.629 | 31.33 | 411 | 31.27 | 412 |
| 50 | 0 | 0 | 0 | 0.629 | 31.41 | 410 | 31.35 | 411 |
| 60 | 0 | 0 | 0 | 0.629 | 31.49 | 409 | 31.43 | 410 |
| 70 | 0 | 0 | 0 | 0.629 | 31.56 | 409 | 31.51 | 409 |
| 80 | 0 | 0 | 0 | 0.629 | 31.64 | 408 | 31.59 | 408 |
| 90 | 0 | 0 | 0 | 0.629 | 31.71 | 407 | 31.66 | 407 |
| 100 | 0 | 0 | 0 | 0.629 | 31.79 | 406 | 31.74 | 406 |
| 110 | 0 | 0 | 0 | 0.629 | 31.86 | 405 | 31.82 | 405 |
| 120 | 0 | 0 | 0 | 0.629 | 31.94 | 404 | 31.89 | 405 |
| 130 | 0 | 0 | 0 | 0.629 | 32.01 | 403 | 31.96 | 404 |
| 167 | 0 | 0 | 0 | 0.629 | 32.27 | 400 | 32.21 | 401 |
| 212 | 0 | 0 | 0 | 0.629 | 32.57 | 397 | 32.52 | 397 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 3.13 | 50.94 | 2000 | 50.94 | 2000* |
| 0 | 0 | 0 | 0 | 0.629 | 49.87 | 410 | 49.8 | 410 |
| 30 | 0 | 0 | 0 | 0.629 | 50.09 | 408 | 50.03 | 409 |
| 40 | 0 | 0 | 0 | 0.629 | 50.17 | 408 | 50.11 | 408 |
| 50 | 0 | 0 | 0 | 0.629 | 50.25 | 407 | 50.19 | 407 |
| 60 | 0 | 0 | 0 | 0.629 | 50.32 | 406 | 50.27 | 407 |
| 70 | 0 | 0 | 0 | 0.629 | 50.4 | 406 | 50.34 | 406 |
| 80 | 0 | 0 | 0 | 0.629 | 50.47 | 405 | 50.42 | 406 |
| 90 | 0 | 0 | 0 | 0.629 | 50.55 | 405 | 50.5 | 405 |
| 100 | 0 | 0 | 0 | 0.629 | 50.62 | 404 | 50.58 | 405 |
| 110 | 0 | 0 | 0 | 0.629 | 50.7 | 404 | 50.65 | 404 |
| 120 | 0 | 0 | 0 | 0.629 | 50.77 | 403 | 50.72 | 404 |
| 130 | 0 | 0 | 0 | 0.629 | 50.85 | 403 | 50.79 | 403 |
| 167 | 0 | 0 | 0 | 0.629 | 51.1 | 401 | 51.05 | 401 |
| 212 | 0 | 0 | 0 | 0.629 | 51.41 | 399 | 51.35 | 399 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 |
| 100.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 1-6 | 1-8 | 1-9 | 1-11 | 2-0 | 2-2 | 2-3 | 2-5 | 2-6 | 2-8 |
| 150.00 | 2-2 | 2-4 | 2-7 | 2-9 | 2-11 | 3-1 | 3-3 | 3-5 | 3-8 | 3-10 |
| 175.00 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-3 | 4-6 | 4-8 | 4-11 | 5-2 |
| 200.00 | 3-11 | 4-3 | 4-6 | 4-10 | 5-2 | 5-6 | 5-10 | 6-2 | 6-6 | 6-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 |
| 100.00 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 125.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-1 | 2-3 | 2-4 | 2-6 | 2-7 | 2-9 |
| 150.00 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-3 | 3-5 | 3-7 | 3-9 | 3-11 |
| 175.00 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-5 | 4-7 | 4-10 | 5-1 | 5-4 |
| 200.00 | 4-1 | 4-5 | 4-9 | 5-1 | 5-5 | 5-9 | 6-0 | 6-4 | 6-8 | 6-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 | 1-10 | 1-11 |
| 125.00 | 2-8 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 |
| 150.00 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 175.00 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 |
| 200.00 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 |
| 225.00 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 |
| 250.00 | 10-9 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-9 | 11-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 |
| 125.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 175.00 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 | 5-10 |
| 200.00 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 |
| 225.00 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-3 | 9-5 | 9-6 | 9-7 | 9-8 |
| 250.00 | 10-10 | 11-0 | 11-1 | 11-3 | 11-4 | 11-6 | 11-7 | 11-8 | 11-10 | 11-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.212

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-4 | 4-5 |
| 175.00 | 5-9 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 6-0 |
| 200.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 |
| 225.00 | 9-6 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 |
| 250.00 | 11-8 | 11-9 | 11-10 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-2 | 12-2 |
| 275.00 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-7 | 14-8 | 14-9 |
| 300.00 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 |
| 325.00 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-7 | 20-8 |
| 350.00 | 23-0 | 23-1 | 23-2 | 23-4 | 23-5 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 |
| 375.00 | 26-5 | 26-6 | 26-8 | 26-9 | 26-11 | 27-0 | 27-2 | 27-3 | 27-5 | 27-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-3 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-5 |
| 175.00 | 5-9 | 5-9 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 6-0 |
| 200.00 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 | 7-10 |
| 225.00 | 9-6 | 9-7 | 9-7 | 9-8 | 9-8 | 9-9 | 9-9 | 9-10 | 9-10 | 9-11 |
| 250.00 | 11-9 | 11-9 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 | 12-3 |
| 275.00 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 | 14-6 | 14-7 | 14-8 | 14-9 | 14-9 |
| 300.00 | 16-11 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 |
| 325.00 | 19-10 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 |
| 350.00 | 23-1 | 23-2 | 23-3 | 23-5 | 23-6 | 23-7 | 23-8 | 23-10 | 23-11 | 24-0 |
| 375.00 | 26-6 | 26-8 | 26-9 | 26-10 | 27-0 | 27-1 | 27-3 | 27-4 | 27-6 | 27-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 |
| 225.00 | 9-10 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 |
| 250.00 | 12-1 | 12-2 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 |
| 275.00 | 14-8 | 14-8 | 14-9 | 14-9 | 14-10 | 14-10 | 14-10 | 14-11 | 14-11 | 15-0 |
| 300.00 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 | 17-10 |
| 325.00 | 20-6 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-10 | 20-10 | 20-11 | 20-11 |
| 350.00 | 23-9 | 23-10 | 23-11 | 24-0 | 24-0 | 24-1 | 24-2 | 24-2 | 24-3 | 24-4 |
| 375.00 | 27-4 | 27-5 | 27-6 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-10 | 27-11 |
| 400.00 | 31-1 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 | 31-9 | 31-10 |
| 425.00 | 35-2 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 | 35-10 | 36-0 |
| 450.00 | 39-6 | 39-7 | 39-8 | 39-9 | 39-10 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 |
| 475.00 | 44-0 | 44-2 | 44-3 | 44-4 | 44-6 | 44-7 | 44-8 | 44-10 | 44-11 | 45-0 |
| 500.00 | 48-10 | 49-0 | 49-1 | 49-3 | 49-4 | 49-5 | 49-7 | 49-8 | 49-10 | 49-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 |
| 225.00 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 |
| 250.00 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 | 12-5 |
| 275.00 | 14-8 | 14-9 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 | 15-0 | 15-0 |
| 300.00 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 | 17-10 | 17-10 |
| 325.00 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-9 | 20-10 | 20-11 | 20-11 | 21-0 |
| 350.00 | 23-10 | 23-11 | 23-11 | 24-0 | 24-1 | 24-1 | 24-2 | 24-3 | 24-4 | 24-4 |
| 375.00 | 27-5 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-9 | 27-10 | 27-11 | 28-0 |
| 400.00 | 31-2 | 31-3 | 31-4 | 31-5 | 31-6 | 31-7 | 31-8 | 31-9 | 31-9 | 31-10 |
| 425.00 | 35-3 | 35-4 | 35-5 | 35-6 | 35-7 | 35-8 | 35-9 | 35-10 | 35-11 | 36-0 |
| 450.00 | 39-7 | 39-8 | 39-9 | 39-10 | 39-11 | 40-0 | 40-2 | 40-3 | 40-4 | 40-5 |
| 475.00 | 44-1 | 44-3 | 44-4 | 44-5 | 44-7 | 44-8 | 44-9 | 44-10 | 45-0 | 45-1 |
| 500.00 | 48-11 | 49-1 | 49-2 | 49-4 | 49-5 | 49-7 | 49-8 | 49-9 | 49-11 | 50-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 | 12-6 | 12-6 |
| 275.00 | 15-0 | 15-0 | 15-0 | 15-1 | 15-1 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 |
| 300.00 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 | 18-1 | 18-1 |
| 325.00 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-2 | 21-2 | 21-2 | 21-3 |
| 350.00 | 24-4 | 24-4 | 24-5 | 24-5 | 24-6 | 24-6 | 24-6 | 24-7 | 24-7 | 24-8 |
| 375.00 | 27-11 | 28-0 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 | 28-4 |
| 400.00 | 31-10 | 31-10 | 31-11 | 32-0 | 32-0 | 32-1 | 32-1 | 32-2 | 32-3 | 32-3 |
| 425.00 | 36-0 | 36-0 | 36-1 | 36-2 | 36-2 | 36-3 | 36-4 | 36-4 | 36-5 | 36-6 |
| 450.00 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 | 40-8 | 40-9 | 40-10 | 40-10 | 40-11 |
| 475.00 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 | 45-5 | 45-5 | 45-6 | 45-7 | 45-8 |
| 500.00 | 49-11 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 |
| 525.00 | 55-2 | 55-3 | 55-4 | 55-5 | 55-6 | 55-7 | 55-8 | 55-9 | 55-10 | 55-11 |
| 550.00 | 60-7 | 60-8 | 60-10 | 60-11 | 61-0 | 61-1 | 61-2 | 61-3 | 61-4 | 61-6 |
| 575.00 | 66-4 | 66-5 | 66-7 | 66-8 | 66-9 | 66-10 | 67-0 | 67-1 | 67-2 | 67-3 |
| 600.00 | 72-4 | 72-6 | 72-7 | 72-8 | 72-10 | 72-11 | 73-0 | 73-2 | 73-3 | 73-4 |
| 625.00 | 78-8 | 78-9 | 78-10 | 79-0 | 79-1 | 79-3 | 79-4 | 79-6 | 79-7 | 79-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-5 | 12-5 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 | 12-6 | 12-7 |
| 275.00 | 15-0 | 15-0 | 15-0 | 15-1 | 15-1 | 15-1 | 15-2 | 15-2 | 15-2 | 15-2 |
| 300.00 | 17-10 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 | 18-1 | 18-1 | 18-1 |
| 325.00 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-2 | 21-2 | 21-2 | 21-3 | 21-3 |
| 350.00 | 24-4 | 24-5 | 24-5 | 24-5 | 24-6 | 24-6 | 24-7 | 24-7 | 24-8 | 24-8 |
| 375.00 | 28-0 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 | 28-4 | 28-4 |
| 400.00 | 31-10 | 31-11 | 32-0 | 32-0 | 32-1 | 32-1 | 32-2 | 32-2 | 32-3 | 32-4 |
| 425.00 | 36-0 | 36-1 | 36-1 | 36-2 | 36-3 | 36-3 | 36-4 | 36-5 | 36-5 | 36-6 |
| 450.00 | 40-5 | 40-6 | 40-6 | 40-7 | 40-8 | 40-9 | 40-9 | 40-10 | 40-11 | 41-0 |
| 475.00 | 45-1 | 45-2 | 45-3 | 45-3 | 45-4 | 45-5 | 45-6 | 45-7 | 45-8 | 45-8 |
| 500.00 | 50-0 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-7 | 50-8 |
| 525.00 | 55-3 | 55-4 | 55-5 | 55-6 | 55-7 | 55-8 | 55-9 | 55-10 | 55-11 | 56-0 |
| 550.00 | 60-8 | 60-9 | 60-10 | 61-0 | 61-1 | 61-2 | 61-3 | 61-4 | 61-5 | 61-6 |
| 575.00 | 66-5 | 66-6 | 66-8 | 66-9 | 66-10 | 66-11 | 67-0 | 67-2 | 67-3 | 67-4 |
| 600.00 | 72-5 | 72-7 | 72-8 | 72-9 | 72-11 | 73-0 | 73-1 | 73-3 | 73-4 | 73-5 |
| 625.00 | 78-9 | 78-10 | 79-0 | 79-1 | 79-3 | 79-4 | 79-5 | 79-7 | 79-8 | 79-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS



OH822.215

**SCOPE:** THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 336.4 RTS TRIPLEX CONDUCTOR.
CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE


G.O. 95 LIGHT LOADING CONDITION
1000 LB TENSION ---------- 823.2
1500 LB TENSION ---------- 823.10
2000 LB TENSION ---------- 823.18

G.O. 95 HEAVY LOADING CONDITION
1000 LB TENSION ---------- 823.26
1500 LB TENSION ---------- 823.32
2000 LB TENSION ---------- 823.40

SDG&E EXTRA HEAVY LOADING CONDITION
1000 LB TENSION ---------- 823.48
1500 LB TENSION ---------- 823.51
2000 LB TENSION ---------- 823.57

65 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 823.65
1500 LB TENSION ---------- 823.73
2000 LB TENSION ---------- 823.81

65 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 823.89
1500 LB TENSION ---------- 823.97
2000 LB TENSION ---------- 823.105

85 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 823.113
1500 LB TENSION ---------- 823.119
2000 LB TENSION ---------- 823.127

85 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 823.135
1500 LB TENSION ---------- 823.141
2000 LB TENSION ---------- 823.149

111 MPH LIGHT KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 823.157
1500 LB TENSION ---------- 823.162
2000 LB TENSION ---------- 823.170

111 MPH HEAVY KNOWN LOCAL WIND CONDITION
1000 LB TENSION ---------- 823.178
1500 LB TENSION ---------- 823.183
2000 LB TENSION ---------- 823.191


**REFERENCE:**

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.


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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



336.4 RTS TRIPLEX TABLE OF CONTENTS

OH823.1

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 2.28 | 960 | 2.19 | 1000* |
| 25 | 0 | 0 | 0 | 1.12 | 2.16 | 651 | 2.03 | 691 |
| 30 | 0 | 0 | 0 | 1.12 | 2.2 | 638 | 2.07 | 678 |
| 40 | 0 | 0 | 0 | 1.12 | 2.28 | 616 | 2.15 | 652 |
| 50 | 0 | 0 | 0 | 1.12 | 2.36 | 595 | 2.23 | 629 |
| 60 | 0 | 0 | 0 | 1.12 | 2.44 | 576 | 2.31 | 608 |
| 70 | 0 | 0 | 0 | 1.12 | 2.51 | 559 | 2.38 | 589 |
| 80 | 0 | 0 | 0 | 1.12 | 2.59 | 543 | 2.46 | 571 |
| 90 | 0 | 0 | 0 | 1.12 | 2.66 | 528 | 2.53 | 555 |
| 100 | 0 | 0 | 0 | 1.12 | 2.73 | 514 | 2.6 | 540 |
| 110 | 0 | 0 | 0 | 1.12 | 2.8 | 502 | 2.67 | 526 |
| 120 | 0 | 0 | 0 | 1.12 | 2.87 | 490 | 2.74 | 513 |
| 130 | 0 | 0 | 0 | 1.12 | 2.92 | 481 | 2.81 | 500 |
| 167 | 0 | 0 | 0 | 1.12 | 3.07 | 458 | 3.05 | 461 |
| 212 | 0 | 0 | 0 | 1.12 | 3.24 | 433 | 3.23 | 435 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 8.92 | 987 | 8.8 | 1000* |
| 25 | 0 | 0 | 0 | 1.12 | 8.78 | 643 | 8.63 | 654 |
| 30 | 0 | 0 | 0 | 1.12 | 8.82 | 640 | 8.67 | 651 |
| 40 | 0 | 0 | 0 | 1.12 | 8.91 | 633 | 8.76 | 644 |
| 50 | 0 | 0 | 0 | 1.12 | 9 | 627 | 8.85 | 638 |
| 60 | 0 | 0 | 0 | 1.12 | 9.09 | 621 | 8.93 | 632 |
| 70 | 0 | 0 | 0 | 1.12 | 9.18 | 615 | 9.02 | 626 |
| 80 | 0 | 0 | 0 | 1.12 | 9.26 | 610 | 9.1 | 620 |
| 90 | 0 | 0 | 0 | 1.12 | 9.35 | 604 | 9.19 | 615 |
| 100 | 0 | 0 | 0 | 1.12 | 9.43 | 599 | 9.27 | 609 |
| 110 | 0 | 0 | 0 | 1.12 | 9.52 | 594 | 9.36 | 604 |
| 120 | 0 | 0 | 0 | 1.12 | 9.6 | 589 | 9.44 | 599 |
| 130 | 0 | 0 | 0 | 1.12 | 9.68 | 584 | 9.52 | 593 |
| 167 | 0 | 0 | 0 | 1.12 | 9.92 | 570 | 9.82 | 576 |
| 212 | 0 | 0 | 0 | 1.12 | 10.15 | 557 | 10.13 | 558 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 20.12 | 994 | 20 | 1000* |
| 25 | 0 | 0 | 0 | 1.12 | 19.98 | 642 | 19.82 | 647 |
| 30 | 0 | 0 | 0 | 1.12 | 20.02 | 641 | 19.87 | 645 |
| 40 | 0 | 0 | 0 | 1.12 | 20.11 | 638 | 19.96 | 643 |
| 50 | 0 | 0 | 0 | 1.12 | 20.2 | 635 | 20.04 | 640 |
| 60 | 0 | 0 | 0 | 1.12 | 20.3 | 632 | 20.13 | 637 |
| 70 | 0 | 0 | 0 | 1.12 | 20.39 | 630 | 20.22 | 634 |
| 80 | 0 | 0 | 0 | 1.12 | 20.48 | 627 | 20.31 | 632 |
| 90 | 0 | 0 | 0 | 1.12 | 20.56 | 624 | 20.4 | 629 |
| 100 | 0 | 0 | 0 | 1.12 | 20.65 | 622 | 20.48 | 627 |
| 110 | 0 | 0 | 0 | 1.12 | 20.74 | 619 | 20.57 | 624 |
| 120 | 0 | 0 | 0 | 1.12 | 20.83 | 617 | 20.66 | 621 |
| 130 | 0 | 0 | 0 | 1.12 | 20.92 | 614 | 20.75 | 619 |
| 167 | 0 | 0 | 0 | 1.12 | 21.19 | 606 | 21.06 | 610 |
| 212 | 0 | 0 | 0 | 1.12 | 21.45 | 599 | 21.43 | 600 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 36.19 | 997 | 36.07 | 1000* |
| 25 | 0 | 0 | 0 | 1.12 | 36.05 | 642 | 35.89 | 644 |
| 30 | 0 | 0 | 0 | 1.12 | 36.09 | 641 | 35.94 | 644 |
| 40 | 0 | 0 | 0 | 1.12 | 36.19 | 639 | 36.03 | 642 |
| 50 | 0 | 0 | 0 | 1.12 | 36.28 | 638 | 36.12 | 641 |
| 60 | 0 | 0 | 0 | 1.12 | 36.37 | 636 | 36.2 | 639 |
| 70 | 0 | 0 | 0 | 1.12 | 36.46 | 635 | 36.29 | 638 |
| 80 | 0 | 0 | 0 | 1.12 | 36.55 | 633 | 36.38 | 636 |
| 90 | 0 | 0 | 0 | 1.12 | 36.64 | 632 | 36.47 | 635 |
| 100 | 0 | 0 | 0 | 1.12 | 36.73 | 630 | 36.56 | 633 |
| 110 | 0 | 0 | 0 | 1.12 | 36.82 | 629 | 36.65 | 632 |
| 120 | 0 | 0 | 0 | 1.12 | 36.91 | 628 | 36.74 | 630 |
| 130 | 0 | 0 | 0 | 1.12 | 37 | 626 | 36.83 | 629 |
| 167 | 0 | 0 | 0 | 1.12 | 37.3 | 622 | 37.15 | 624 |
| 212 | 0 | 0 | 0 | 1.12 | 37.56 | 617 | 37.54 | 618 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 57.6 | 998 | 57.47 | 1000* |
| 25 | 0 | 0 | 0 | 1.12 | 57.45 | 641 | 57.3 | 643 |
| 30 | 0 | 0 | 0 | 1.12 | 57.5 | 641 | 57.34 | 643 |
| 40 | 0 | 0 | 0 | 1.12 | 57.59 | 640 | 57.43 | 642 |
| 50 | 0 | 0 | 0 | 1.12 | 57.68 | 639 | 57.52 | 641 |
| 60 | 0 | 0 | 0 | 1.12 | 57.78 | 638 | 57.61 | 640 |
| 70 | 0 | 0 | 0 | 1.12 | 57.87 | 637 | 57.7 | 639 |
| 80 | 0 | 0 | 0 | 1.12 | 57.96 | 636 | 57.79 | 638 |
| 90 | 0 | 0 | 0 | 1.12 | 58.05 | 636 | 57.88 | 637 |
| 100 | 0 | 0 | 0 | 1.12 | 58.14 | 635 | 57.97 | 636 |
| 110 | 0 | 0 | 0 | 1.12 | 58.23 | 634 | 58.06 | 636 |
| 120 | 0 | 0 | 0 | 1.12 | 58.32 | 633 | 58.15 | 635 |
| 130 | 0 | 0 | 0 | 1.12 | 58.41 | 632 | 58.23 | 634 |
| 167 | 0 | 0 | 0 | 1.12 | 58.72 | 629 | 58.56 | 631 |
| 212 | 0 | 0 | 0 | 1.12 | 58.98 | 627 | 58.96 | 627 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-1 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 |
| 100.00 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-5 | 2-6 | 2-7 | 2-8 |
| 125.00 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 |
| 150.00 | 4-6 | 4-8 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 |
| 175.00 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 | 7-6 | 7-9 | 8-0 | 8-2 |
| 200.00 | 8-0 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 | 9-10 | 10-2 | 10-5 | 10-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 |
| 125.00 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 |
| 150.00 | 4-9 | 4-11 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 |
| 175.00 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-8 | 7-11 | 8-2 | 8-5 | 8-7 |
| 200.00 | 8-6 | 8-10 | 9-2 | 9-5 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.5

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-2 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 |
| 125.00 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 | 3-8 |
| 150.00 | 4-10 | 4-10 | 4-11 | 5-0 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-3 |
| 175.00 | 6-7 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-2 |
| 200.00 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 |
| 225.00 | 10-10 | 11-0 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 |
| 250.00 | 13-5 | 13-7 | 13-8 | 13-10 | 14-0 | 14-1 | 14-3 | 14-5 | 14-6 | 14-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-4 |
| 125.00 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 | 3-7 | 3-7 | 3-8 | 3-8 | 3-9 |
| 150.00 | 4-11 | 4-11 | 5-0 | 5-1 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 |
| 175.00 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 |
| 200.00 | 8-9 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 |
| 225.00 | 11-1 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 | 12-1 |
| 250.00 | 13-8 | 13-10 | 13-11 | 14-1 | 14-3 | 14-4 | 14-6 | 14-8 | 14-9 | 14-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-11 | 4-11 | 5-0 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-1 |
| 175.00 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 |
| 200.00 | 8-9 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 |
| 225.00 | 11-1 | 11-2 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 |
| 250.00 | 13-9 | 13-9 | 13-10 | 13-11 | 13-11 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 |
| 275.00 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 |
| 300.00 | 19-9 | 19-10 | 19-11 | 20-1 | 20-2 | 20-3 | 20-4 | 20-5 | 20-6 | 20-7 |
| 325.00 | 23-3 | 23-4 | 23-5 | 23-7 | 23-8 | 23-9 | 23-10 | 24-0 | 24-1 | 24-2 |
| 350.00 | 27-0 | 27-1 | 27-3 | 27-4 | 27-6 | 27-7 | 27-8 | 27-10 | 27-11 | 28-1 |
| 375.00 | 31-0 | 31-2 | 31-3 | 31-5 | 31-7 | 31-8 | 31-10 | 32-0 | 32-1 | 32-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 5-0 | 5-0 | 5-0 | 5-0 | 5-1 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 |
| 175.00 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-0 |
| 200.00 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 |
| 225.00 | 11-2 | 11-3 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 | 11-8 |
| 250.00 | 13-10 | 13-11 | 13-11 | 14-0 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-5 |
| 275.00 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 |
| 300.00 | 19-11 | 20-0 | 20-1 | 20-2 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 |
| 325.00 | 23-5 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-4 |
| 350.00 | 27-2 | 27-4 | 27-5 | 27-7 | 27-8 | 27-10 | 27-11 | 28-1 | 28-2 | 28-4 |
| 375.00 | 31-3 | 31-5 | 31-6 | 31-8 | 31-10 | 32-0 | 32-1 | 32-3 | 32-5 | 32-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-11 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 |
| 225.00 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 |
| 250.00 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 |
| 275.00 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 |
| 300.00 | 20-1 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-6 |
| 325.00 | 23-7 | 23-8 | 23-8 | 23-9 | 23-10 | 23-10 | 23-11 | 24-0 | 24-1 | 24-1 |
| 350.00 | 27-5 | 27-5 | 27-6 | 27-7 | 27-8 | 27-9 | 27-9 | 27-10 | 27-11 | 28-0 |
| 375.00 | 31-6 | 31-7 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 |
| 400.00 | 35-10 | 35-11 | 36-0 | 36-1 | 36-2 | 36-4 | 36-5 | 36-6 | 36-7 | 36-8 |
| 425.00 | 40-6 | 40-7 | 40-9 | 40-10 | 40-11 | 41-0 | 41-2 | 41-3 | 41-4 | 41-5 |
| 450.00 | 45-6 | 45-7 | 45-9 | 45-10 | 45-11 | 46-1 | 46-2 | 46-4 | 46-5 | 46-6 |
| 475.00 | 50-9 | 50-11 | 51-0 | 51-2 | 51-3 | 51-5 | 51-6 | 51-8 | 51-9 | 51-11 |
| 500.00 | 56-4 | 56-6 | 56-8 | 56-9 | 56-11 | 57-1 | 57-2 | 57-4 | 57-6 | 57-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 |
| 225.00 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-7 |
| 250.00 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-3 |
| 275.00 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 |
| 300.00 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 | 20-7 |
| 325.00 | 23-8 | 23-9 | 23-10 | 23-10 | 23-11 | 24-0 | 24-0 | 24-1 | 24-2 | 24-3 |
| 350.00 | 27-6 | 27-7 | 27-8 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-1 |
| 375.00 | 31-7 | 31-8 | 31-9 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 | 32-3 | 32-4 |
| 400.00 | 36-0 | 36-1 | 36-2 | 36-3 | 36-4 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 |
| 425.00 | 40-8 | 40-10 | 40-11 | 41-0 | 41-1 | 41-3 | 41-4 | 41-5 | 41-6 | 41-8 |
| 450.00 | 45-8 | 45-10 | 45-11 | 46-1 | 46-2 | 46-3 | 46-5 | 46-6 | 46-8 | 46-9 |
| 475.00 | 51-0 | 51-1 | 51-3 | 51-5 | 51-6 | 51-8 | 51-9 | 51-11 | 52-0 | 52-2 |
| 500.00 | 56-7 | 56-9 | 56-11 | 57-0 | 57-2 | 57-4 | 57-6 | 57-7 | 57-9 | 57-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS



OH823.8

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-2 | 14-2 | 14-2 | 14-2 | 14-3 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 |
| 275.00 | 17-1 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 |
| 300.00 | 20-5 | 20-5 | 20-5 | 20-6 | 20-6 | 20-7 | 20-7 | 20-7 | 20-8 | 20-8 |
| 325.00 | 23-11 | 24-0 | 24-0 | 24-1 | 24-1 | 24-2 | 24-2 | 24-3 | 24-3 | 24-3 |
| 350.00 | 27-10 | 27-10 | 27-11 | 27-11 | 28-0 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 |
| 375.00 | 32-0 | 32-0 | 32-1 | 32-1 | 32-2 | 32-3 | 32-3 | 32-4 | 32-4 | 32-5 |
| 400.00 | 36-5 | 36-6 | 36-6 | 36-7 | 36-8 | 36-8 | 36-9 | 36-10 | 36-10 | 36-11 |
| 425.00 | 41-2 | 41-3 | 41-4 | 41-4 | 41-5 | 41-6 | 41-7 | 41-7 | 41-8 | 41-9 |
| 450.00 | 46-3 | 46-4 | 46-4 | 46-5 | 46-6 | 46-7 | 46-8 | 46-9 | 46-10 | 46-10 |
| 475.00 | 51-7 | 51-8 | 51-9 | 51-10 | 51-11 | 52-0 | 52-1 | 52-2 | 52-3 | 52-4 |
| 500.00 | 57-3 | 57-4 | 57-5 | 57-6 | 57-7 | 57-8 | 57-9 | 57-11 | 58-0 | 58-1 |
| 525.00 | 63-3 | 63-4 | 63-5 | 63-6 | 63-8 | 63-9 | 63-10 | 63-11 | 64-0 | 64-1 |
| 550.00 | 69-6 | 69-8 | 69-9 | 69-10 | 69-11 | 70-1 | 70-2 | 70-3 | 70-5 | 70-6 |
| 575.00 | 76-2 | 76-3 | 76-4 | 76-6 | 76-7 | 76-9 | 76-10 | 77-0 | 77-1 | 77-3 |
| 600.00 | 83-1 | 83-2 | 83-4 | 83-5 | 83-7 | 83-9 | 83-10 | 84-0 | 84-1 | 84-3 |
| 625.00 | 90-4 | 90-5 | 90-7 | 90-9 | 90-11 | 91-0 | 91-2 | 91-4 | 91-5 | 91-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 14-2 | 14-2 | 14-3 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-4 |
| 275.00 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-5 | 17-5 |
| 300.00 | 20-5 | 20-6 | 20-6 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 | 20-8 | 20-9 |
| 325.00 | 24-0 | 24-1 | 24-1 | 24-2 | 24-2 | 24-2 | 24-3 | 24-3 | 24-4 | 24-4 |
| 350.00 | 27-11 | 27-11 | 28-0 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 |
| 375.00 | 32-1 | 32-1 | 32-2 | 32-2 | 32-3 | 32-4 | 32-4 | 32-5 | 32-5 | 32-6 |
| 400.00 | 36-6 | 36-7 | 36-8 | 36-8 | 36-9 | 36-10 | 36-10 | 36-11 | 37-0 | 37-0 |
| 425.00 | 41-3 | 41-4 | 41-5 | 41-6 | 41-7 | 41-7 | 41-8 | 41-9 | 41-10 | 41-10 |
| 450.00 | 46-4 | 46-5 | 46-6 | 46-7 | 46-8 | 46-9 | 46-10 | 46-10 | 46-11 | 47-0 |
| 475.00 | 51-9 | 51-10 | 51-11 | 52-0 | 52-1 | 52-2 | 52-3 | 52-4 | 52-5 | 52-6 |
| 500.00 | 57-5 | 57-6 | 57-7 | 57-8 | 57-9 | 57-10 | 58-0 | 58-1 | 58-2 | 58-3 |
| 525.00 | 63-5 | 63-6 | 63-7 | 63-8 | 63-10 | 63-11 | 64-0 | 64-1 | 64-3 | 64-4 |
| 550.00 | 69-9 | 69-10 | 69-11 | 70-1 | 70-2 | 70-3 | 70-5 | 70-6 | 70-7 | 70-9 |
| 575.00 | 76-4 | 76-6 | 76-7 | 76-8 | 76-10 | 76-11 | 77-1 | 77-2 | 77-4 | 77-5 |
| 600.00 | 83-3 | 83-5 | 83-7 | 83-8 | 83-10 | 84-0 | 84-1 | 84-3 | 84-4 | 84-6 |
| 625.00 | 90-7 | 90-8 | 90-10 | 91-0 | 91-2 | 91-4 | 91-5 | 91-7 | 91-9 | 91-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 1.57 | 1391 | 1.46 | 1500* |
| 25 | 0 | 0 | 0 | 1.12 | 1.35 | 1034 | 1.18 | 1183 |
| 30 | 0 | 0 | 0 | 1.12 | 1.4 | 997 | 1.23 | 1141 |
| 40 | 0 | 0 | 0 | 1.12 | 1.5 | 932 | 1.32 | 1065 |
| 50 | 0 | 0 | 0 | 1.12 | 1.6 | 875 | 1.4 | 997 |
| 60 | 0 | 0 | 0 | 1.12 | 1.7 | 825 | 1.5 | 937 |
| 70 | 0 | 0 | 0 | 1.12 | 1.79 | 782 | 1.59 | 884 |
| 80 | 0 | 0 | 0 | 1.12 | 1.88 | 744 | 1.68 | 836 |
| 90 | 0 | 0 | 0 | 1.12 | 1.97 | 710 | 1.76 | 794 |
| 100 | 0 | 0 | 0 | 1.12 | 2.06 | 680 | 1.85 | 757 |
| 110 | 0 | 0 | 0 | 1.12 | 2.15 | 653 | 1.94 | 723 |
| 120 | 0 | 0 | 0 | 1.12 | 2.23 | 629 | 2.02 | 693 |
| 130 | 0 | 0 | 0 | 1.12 | 2.31 | 607 | 2.11 | 666 |
| 167 | 0 | 0 | 0 | 1.12 | 2.5 | 563 | 2.4 | 586 |
| 212 | 0 | 0 | 0 | 1.12 | 2.69 | 522 | 2.67 | 527 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 6.03 | 1453 | 5.84 | 1500* |
| 25 | 0 | 0 | 0 | 1.12 | 5.74 | 978 | 5.46 | 1028 |
| 30 | 0 | 0 | 0 | 1.12 | 5.81 | 967 | 5.53 | 1016 |
| 40 | 0 | 0 | 0 | 1.12 | 5.93 | 947 | 5.65 | 994 |
| 50 | 0 | 0 | 0 | 1.12 | 6.06 | 928 | 5.77 | 973 |
| 60 | 0 | 0 | 0 | 1.12 | 6.18 | 909 | 5.89 | 954 |
| 70 | 0 | 0 | 0 | 1.12 | 6.3 | 892 | 6.01 | 935 |
| 80 | 0 | 0 | 0 | 1.12 | 6.42 | 876 | 6.13 | 917 |
| 90 | 0 | 0 | 0 | 1.12 | 6.54 | 860 | 6.24 | 900 |
| 100 | 0 | 0 | 0 | 1.12 | 6.65 | 845 | 6.36 | 884 |
| 110 | 0 | 0 | 0 | 1.12 | 6.77 | 831 | 6.47 | 869 |
| 120 | 0 | 0 | 0 | 1.12 | 6.88 | 818 | 6.59 | 854 |
| 130 | 0 | 0 | 0 | 1.12 | 6.99 | 805 | 6.7 | 840 |
| 167 | 0 | 0 | 0 | 1.12 | 7.39 | 762 | 7.1 | 793 |
| 212 | 0 | 0 | 0 | 1.12 | 7.68 | 733 | 7.56 | 745 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 13.42 | 1476 | 13.2 | 1500* |
| 25 | 0 | 0 | 0 | 1.12 | 13.11 | 969 | 12.8 | 991 |
| 30 | 0 | 0 | 0 | 1.12 | 13.18 | 964 | 12.87 | 986 |
| 40 | 0 | 0 | 0 | 1.12 | 13.31 | 954 | 13 | 977 |
| 50 | 0 | 0 | 0 | 1.12 | 13.44 | 945 | 13.13 | 967 |
| 60 | 0 | 0 | 0 | 1.12 | 13.57 | 936 | 13.25 | 958 |
| 70 | 0 | 0 | 0 | 1.12 | 13.7 | 927 | 13.38 | 949 |
| 80 | 0 | 0 | 0 | 1.12 | 13.83 | 919 | 13.51 | 940 |
| 90 | 0 | 0 | 0 | 1.12 | 13.96 | 911 | 13.63 | 932 |
| 100 | 0 | 0 | 0 | 1.12 | 14.08 | 903 | 13.76 | 924 |
| 110 | 0 | 0 | 0 | 1.12 | 14.21 | 895 | 13.88 | 915 |
| 120 | 0 | 0 | 0 | 1.12 | 14.33 | 887 | 14 | 908 |
| 130 | 0 | 0 | 0 | 1.12 | 14.46 | 880 | 14.13 | 900 |
| 167 | 0 | 0 | 0 | 1.12 | 14.91 | 854 | 14.57 | 873 |
| 212 | 0 | 0 | 0 | 1.12 | 15.33 | 831 | 15.1 | 843 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 23.84 | 1486 | 23.61 | 1500* |
| 25 | 0 | 0 | 0 | 1.12 | 23.52 | 965 | 23.21 | 978 |
| 30 | 0 | 0 | 0 | 1.12 | 23.59 | 963 | 23.27 | 976 |
| 40 | 0 | 0 | 0 | 1.12 | 23.73 | 957 | 23.4 | 970 |
| 50 | 0 | 0 | 0 | 1.12 | 23.86 | 952 | 23.54 | 965 |
| 60 | 0 | 0 | 0 | 1.12 | 24 | 947 | 23.67 | 960 |
| 70 | 0 | 0 | 0 | 1.12 | 24.13 | 942 | 23.8 | 955 |
| 80 | 0 | 0 | 0 | 1.12 | 24.26 | 937 | 23.93 | 950 |
| 90 | 0 | 0 | 0 | 1.12 | 24.39 | 932 | 24.06 | 945 |
| 100 | 0 | 0 | 0 | 1.12 | 24.53 | 927 | 24.19 | 940 |
| 110 | 0 | 0 | 0 | 1.12 | 24.66 | 922 | 24.31 | 935 |
| 120 | 0 | 0 | 0 | 1.12 | 24.79 | 918 | 24.44 | 930 |
| 130 | 0 | 0 | 0 | 1.12 | 24.92 | 913 | 24.57 | 925 |
| 167 | 0 | 0 | 0 | 1.12 | 25.39 | 896 | 25.04 | 909 |
| 212 | 0 | 0 | 0 | 1.12 | 25.88 | 880 | 25.6 | 889 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 37.42 | 1491 | 37.19 | 1500* |
| 25 | 0 | 0 | 0 | 1.12 | 37.1 | 964 | 36.78 | 972 |
| 30 | 0 | 0 | 0 | 1.12 | 37.17 | 962 | 36.85 | 970 |
| 40 | 0 | 0 | 0 | 1.12 | 37.31 | 959 | 36.98 | 967 |
| 50 | 0 | 0 | 0 | 1.12 | 37.45 | 956 | 37.11 | 964 |
| 60 | 0 | 0 | 0 | 1.12 | 37.58 | 952 | 37.25 | 961 |
| 70 | 0 | 0 | 0 | 1.12 | 37.72 | 949 | 37.38 | 957 |
| 80 | 0 | 0 | 0 | 1.12 | 37.85 | 946 | 37.51 | 954 |
| 90 | 0 | 0 | 0 | 1.12 | 37.99 | 943 | 37.64 | 951 |
| 100 | 0 | 0 | 0 | 1.12 | 38.12 | 940 | 37.77 | 948 |
| 110 | 0 | 0 | 0 | 1.12 | 38.26 | 936 | 37.9 | 945 |
| 120 | 0 | 0 | 0 | 1.12 | 38.39 | 933 | 38.03 | 942 |
| 130 | 0 | 0 | 0 | 1.12 | 38.52 | 930 | 38.16 | 938 |
| 167 | 0 | 0 | 0 | 1.12 | 39.01 | 919 | 38.64 | 927 |
| 212 | 0 | 0 | 0 | 1.12 | 39.54 | 907 | 39.22 | 914 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 |
| 150.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 175.00 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 | 5-8 | 5-11 |
| 200.00 | 4-7 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 | 6-9 | 7-1 | 7-5 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 125.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 |
| 150.00 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 4-10 |
| 175.00 | 4-0 | 4-4 | 4-7 | 4-11 | 5-2 | 5-6 | 5-9 | 6-1 | 6-4 | 6-7 |
| 200.00 | 5-3 | 5-7 | 6-0 | 6-5 | 6-10 | 7-2 | 7-7 | 7-11 | 8-3 | 8-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS



OH823.13

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-4 | 1-5 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 |
| 125.00 | 2-1 | 2-2 | 2-2 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 |
| 150.00 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 | 3-7 | 3-8 |
| 175.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 200.00 | 5-5 | 5-6 | 5-8 | 5-9 | 5-11 | 6-0 | 6-2 | 6-3 | 6-4 | 6-6 |
| 225.00 | 6-10 | 7-0 | 7-2 | 7-4 | 7-6 | 7-7 | 7-9 | 7-11 | 8-1 | 8-2 |
| 250.00 | 8-5 | 8-8 | 8-10 | 9-0 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 |
| 125.00 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 |
| 150.00 | 3-2 | 3-3 | 3-4 | 3-5 | 3-6 | 3-7 | 3-7 | 3-8 | 3-9 | 3-10 |
| 175.00 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 |
| 200.00 | 5-8 | 5-10 | 5-11 | 6-1 | 6-2 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 |
| 225.00 | 7-2 | 7-4 | 7-6 | 7-8 | 7-10 | 8-0 | 8-2 | 8-3 | 8-5 | 8-7 |
| 250.00 | 8-11 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-0 | 10-3 | 10-5 | 10-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.14

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-6 |
| 175.00 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 |
| 200.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-11 | 5-11 | 6-0 | 6-1 | 6-1 | 6-2 |
| 225.00 | 7-2 | 7-3 | 7-4 | 7-5 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 |
| 250.00 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 |
| 275.00 | 10-8 | 10-10 | 10-11 | 11-0 | 11-2 | 11-3 | 11-4 | 11-5 | 11-7 | 11-8 |
| 300.00 | 12-9 | 12-10 | 13-0 | 13-2 | 13-3 | 13-5 | 13-6 | 13-8 | 13-9 | 13-11 |
| 325.00 | 14-11 | 15-1 | 15-3 | 15-5 | 15-7 | 15-9 | 15-10 | 16-0 | 16-2 | 16-4 |
| 350.00 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-11 |
| 375.00 | 19-11 | 20-2 | 20-4 | 20-6 | 20-9 | 20-11 | 21-2 | 21-4 | 21-6 | 21-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 3-3 | 3-3 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-6 | 3-6 | 3-7 |
| 175.00 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 |
| 200.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-2 | 6-3 | 6-4 |
| 225.00 | 7-4 | 7-5 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-0 |
| 250.00 | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 | 9-8 | 9-9 | 9-10 |
| 275.00 | 10-11 | 11-1 | 11-2 | 11-3 | 11-5 | 11-6 | 11-7 | 11-9 | 11-10 | 11-11 |
| 300.00 | 13-1 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 | 13-10 | 13-11 | 14-1 | 14-3 |
| 325.00 | 15-4 | 15-6 | 15-8 | 15-9 | 15-11 | 16-1 | 16-3 | 16-5 | 16-6 | 16-8 |
| 350.00 | 17-9 | 17-11 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 | 19-0 | 19-2 | 19-4 |
| 375.00 | 20-5 | 20-7 | 20-10 | 21-0 | 21-3 | 21-5 | 21-8 | 21-10 | 22-1 | 22-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.15

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 |
| 225.00 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 |
| 250.00 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 | 9-5 | 9-6 |
| 275.00 | 10-11 | 11-0 | 11-0 | 11-1 | 11-2 | 11-3 | 11-3 | 11-4 | 11-5 | 11-6 |
| 300.00 | 13-0 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 |
| 325.00 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 |
| 350.00 | 17-8 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-4 | 18-5 | 18-6 | 18-7 |
| 375.00 | 20-4 | 20-5 | 20-7 | 20-8 | 20-9 | 20-11 | 21-0 | 21-2 | 21-3 | 21-4 |
| 400.00 | 23-2 | 23-3 | 23-5 | 23-6 | 23-8 | 23-10 | 23-11 | 24-1 | 24-2 | 24-4 |
| 425.00 | 26-2 | 26-3 | 26-5 | 26-7 | 26-9 | 26-11 | 27-0 | 27-2 | 27-4 | 27-6 |
| 450.00 | 29-4 | 29-6 | 29-8 | 29-10 | 30-0 | 30-2 | 30-4 | 30-6 | 30-8 | 30-10 |
| 475.00 | 32-8 | 32-11 | 33-1 | 33-3 | 33-5 | 33-7 | 33-10 | 34-0 | 34-2 | 34-4 |
| 500.00 | 36-3 | 36-5 | 36-8 | 36-10 | 37-1 | 37-3 | 37-6 | 37-8 | 37-11 | 38-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-10 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-2 |
| 225.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 |
| 250.00 | 9-2 | 9-2 | 9-3 | 9-4 | 9-4 | 9-5 | 9-5 | 9-6 | 9-7 | 9-7 |
| 275.00 | 11-1 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-5 | 11-6 | 11-7 | 11-7 |
| 300.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-10 |
| 325.00 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 |
| 350.00 | 17-11 | 18-1 | 18-2 | 18-3 | 18-4 | 18-5 | 18-7 | 18-8 | 18-9 | 18-10 |
| 375.00 | 20-7 | 20-9 | 20-10 | 21-0 | 21-1 | 21-2 | 21-4 | 21-5 | 21-7 | 21-8 |
| 400.00 | 23-5 | 23-7 | 23-9 | 23-10 | 24-0 | 24-2 | 24-3 | 24-5 | 24-6 | 24-8 |
| 425.00 | 26-6 | 26-8 | 26-10 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-8 | 27-10 |
| 450.00 | 29-9 | 29-11 | 30-1 | 30-3 | 30-5 | 30-7 | 30-9 | 30-11 | 31-1 | 31-3 |
| 475.00 | 33-2 | 33-4 | 33-6 | 33-9 | 33-11 | 34-1 | 34-3 | 34-6 | 34-8 | 34-10 |
| 500.00 | 36-9 | 36-11 | 37-2 | 37-5 | 37-7 | 37-10 | 38-0 | 38-3 | 38-5 | 38-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS



OH823.16

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 | 9-4 | 9-5 | 9-5 |
| 275.00 | 11-1 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 |
| 300.00 | 13-2 | 13-2 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 |
| 325.00 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 | 15-9 | 15-9 | 15-10 | 15-11 | 15-11 |
| 350.00 | 17-11 | 18-0 | 18-1 | 18-1 | 18-2 | 18-3 | 18-4 | 18-4 | 18-5 | 18-6 |
| 375.00 | 20-7 | 20-8 | 20-9 | 20-10 | 20-11 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 |
| 400.00 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 | 24-1 | 24-2 |
| 425.00 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-1 | 27-2 | 27-3 | 27-4 |
| 450.00 | 29-8 | 29-10 | 29-11 | 30-0 | 30-2 | 30-3 | 30-4 | 30-5 | 30-7 | 30-8 |
| 475.00 | 33-1 | 33-3 | 33-4 | 33-6 | 33-7 | 33-9 | 33-10 | 33-11 | 34-1 | 34-2 |
| 500.00 | 36-9 | 36-10 | 37-0 | 37-1 | 37-3 | 37-5 | 37-6 | 37-8 | 37-9 | 37-11 |
| 525.00 | 40-6 | 40-8 | 40-10 | 40-11 | 41-1 | 41-3 | 41-5 | 41-6 | 41-8 | 41-10 |
| 550.00 | 44-6 | 44-8 | 44-10 | 45-0 | 45-2 | 45-4 | 45-5 | 45-7 | 45-9 | 45-11 |
| 575.00 | 48-8 | 48-10 | 49-0 | 49-2 | 49-4 | 49-7 | 49-9 | 49-11 | 50-1 | 50-3 |
| 600.00 | 53-0 | 53-3 | 53-5 | 53-7 | 53-10 | 54-0 | 54-2 | 54-5 | 54-7 | 54-9 |
| 625.00 | 57-7 | 57-10 | 58-0 | 58-3 | 58-5 | 58-8 | 58-10 | 59-1 | 59-3 | 59-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 9- 3 | 9- 3 | 9- 3 | 9- 4 | 9- 4 | 9- 5 | 9- 5 | 9- 5 | 9- 6 | 9- 6 |
| 275.00 | 11- 2 | 11- 2 | 11- 3 | 11- 3 | 11- 4 | 11- 4 | 11- 5 | 11- 5 | 11- 6 | 11- 6 |
| 300.00 | 13- 3 | 13- 4 | 13- 4 | 13- 5 | 13- 6 | 13- 6 | 13- 7 | 13- 7 | 13- 8 | 13- 8 |
| 325.00 | 15- 7 | 15- 8 | 15- 8 | 15- 9 | 15-10 | 15-10 | 15-11 | 16- 0 | 16- 0 | 16- 1 |
| 350.00 | 18- 1 | 18- 2 | 18- 3 | 18- 3 | 18- 4 | 18- 5 | 18- 6 | 18- 7 | 18- 7 | 18- 8 |
| 375.00 | 20- 9 | 20-10 | 20-11 | 21- 0 | 21- 1 | 21- 2 | 21- 3 | 21- 4 | 21- 4 | 21- 5 |
| 400.00 | 23- 8 | 23- 9 | 23-10 | 23-11 | 24- 0 | 24- 1 | 24- 2 | 24- 3 | 24- 4 | 24- 5 |
| 425.00 | 26- 8 | 26-10 | 26-11 | 27- 0 | 27- 1 | 27- 2 | 27- 3 | 27- 5 | 27- 6 | 27- 7 |
| 450.00 | 29-11 | 30- 1 | 30- 2 | 30- 3 | 30- 5 | 30- 6 | 30- 7 | 30- 9 | 30-10 | 30-11 |
| 475.00 | 33- 5 | 33- 6 | 33- 8 | 33- 9 | 33-11 | 34- 0 | 34- 2 | 34- 3 | 34- 5 | 34- 6 |
| 500.00 | 37- 0 | 37- 2 | 37- 4 | 37- 5 | 37- 7 | 37- 9 | 37-10 | 38- 0 | 38- 1 | 38- 3 |
| 525.00 | 40-10 | 41- 0 | 41- 2 | 41- 4 | 41- 6 | 41- 7 | 41- 9 | 41-11 | 42- 1 | 42- 3 |
| 550.00 | 44-11 | 45- 1 | 45- 3 | 45- 5 | 45- 7 | 45- 9 | 45-10 | 46- 0 | 46- 2 | 46- 4 |
| 575.00 | 49- 1 | 49- 3 | 49- 6 | 49- 8 | 49-10 | 50- 0 | 50- 2 | 50- 4 | 50- 6 | 50- 9 |
| 600.00 | 53- 6 | 53- 8 | 53-11 | 54- 1 | 54- 4 | 54- 6 | 54- 8 | 54-11 | 55- 1 | 55- 3 |
| 625.00 | 58- 1 | 58- 4 | 58- 6 | 58- 9 | 59- 0 | 59- 2 | 59- 5 | 59- 7 | 59-10 | 60- 0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 1.21 | 1808 | 1.09 | 2000* |
| 25 | 0 | 0 | 0 | 1.12 | 0.94 | 1487 | 0.79 | 1764 |
| 30 | 0 | 0 | 0 | 1.12 | 0.99 | 1420 | 0.82 | 1702 |
| 40 | 0 | 0 | 0 | 1.12 | 1.08 | 1299 | 0.89 | 1581 |
| 50 | 0 | 0 | 0 | 1.12 | 1.17 | 1193 | 0.95 | 1467 |
| 60 | 0 | 0 | 0 | 1.12 | 1.27 | 1100 | 1.03 | 1360 |
| 70 | 0 | 0 | 0 | 1.12 | 1.37 | 1020 | 1.11 | 1262 |
| 80 | 0 | 0 | 0 | 1.12 | 1.47 | 952 | 1.19 | 1173 |
| 90 | 0 | 0 | 0 | 1.12 | 1.57 | 892 | 1.28 | 1092 |
| 100 | 0 | 0 | 0 | 1.12 | 1.67 | 840 | 1.37 | 1021 |
| 110 | 0 | 0 | 0 | 1.12 | 1.76 | 795 | 1.46 | 957 |
| 120 | 0 | 0 | 0 | 1.12 | 1.86 | 756 | 1.56 | 901 |
| 130 | 0 | 0 | 0 | 1.12 | 1.95 | 721 | 1.65 | 851 |
| 167 | 0 | 0 | 0 | 1.12 | 2.15 | 651 | 1.97 | 711 |
| 212 | 0 | 0 | 0 | 1.12 | 2.36 | 594 | 2.32 | 604 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 4.62 | 1894 | 4.37 | 2000* |
| 25 | 0 | 0 | 0 | 1.12 | 4.17 | 1344 | 3.78 | 1484 |
| 30 | 0 | 0 | 0 | 1.12 | 4.25 | 1320 | 3.85 | 1457 |
| 40 | 0 | 0 | 0 | 1.12 | 4.4 | 1275 | 3.99 | 1407 |
| 50 | 0 | 0 | 0 | 1.12 | 4.55 | 1234 | 4.13 | 1359 |
| 60 | 0 | 0 | 0 | 1.12 | 4.7 | 1195 | 4.27 | 1315 |
| 70 | 0 | 0 | 0 | 1.12 | 4.84 | 1160 | 4.4 | 1274 |
| 80 | 0 | 0 | 0 | 1.12 | 4.98 | 1127 | 4.54 | 1235 |
| 90 | 0 | 0 | 0 | 1.12 | 5.12 | 1096 | 4.68 | 1200 |
| 100 | 0 | 0 | 0 | 1.12 | 5.26 | 1068 | 4.81 | 1166 |
| 110 | 0 | 0 | 0 | 1.12 | 5.39 | 1041 | 4.95 | 1135 |
| 120 | 0 | 0 | 0 | 1.12 | 5.53 | 1017 | 5.08 | 1105 |
| 130 | 0 | 0 | 0 | 1.12 | 5.66 | 993 | 5.21 | 1078 |
| 167 | 0 | 0 | 0 | 1.12 | 6.12 | 918 | 5.68 | 989 |
| 212 | 0 | 0 | 0 | 1.12 | 6.5 | 865 | 6.22 | 904 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 10.18 | 1940 | 9.87 | 2000* |
| 25 | 0 | 0 | 0 | 1.12 | 9.66 | 1309 | 9.18 | 1378 |
| 30 | 0 | 0 | 0 | 1.12 | 9.75 | 1298 | 9.26 | 1366 |
| 40 | 0 | 0 | 0 | 1.12 | 9.92 | 1276 | 9.42 | 1343 |
| 50 | 0 | 0 | 0 | 1.12 | 10.08 | 1255 | 9.58 | 1320 |
| 60 | 0 | 0 | 0 | 1.12 | 10.25 | 1235 | 9.74 | 1299 |
| 70 | 0 | 0 | 0 | 1.12 | 10.41 | 1216 | 9.9 | 1278 |
| 80 | 0 | 0 | 0 | 1.12 | 10.57 | 1198 | 10.06 | 1258 |
| 90 | 0 | 0 | 0 | 1.12 | 10.73 | 1180 | 10.21 | 1239 |
| 100 | 0 | 0 | 0 | 1.12 | 10.89 | 1163 | 10.37 | 1221 |
| 110 | 0 | 0 | 0 | 1.12 | 11.04 | 1147 | 10.52 | 1203 |
| 120 | 0 | 0 | 0 | 1.12 | 11.2 | 1132 | 10.67 | 1186 |
| 130 | 0 | 0 | 0 | 1.12 | 11.35 | 1117 | 10.82 | 1170 |
| 167 | 0 | 0 | 0 | 1.12 | 11.9 | 1066 | 11.37 | 1114 |
| 212 | 0 | 0 | 0 | 1.12 | 12.5 | 1015 | 12.01 | 1056 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 17.94 | 1963 | 17.6 | 2000* |
| 25 | 0 | 0 | 0 | 1.12 | 17.4 | 1297 | 16.88 | 1337 |
| 30 | 0 | 0 | 0 | 1.12 | 17.49 | 1291 | 16.96 | 1330 |
| 40 | 0 | 0 | 0 | 1.12 | 17.67 | 1278 | 17.13 | 1317 |
| 50 | 0 | 0 | 0 | 1.12 | 17.84 | 1266 | 17.3 | 1304 |
| 60 | 0 | 0 | 0 | 1.12 | 18.01 | 1254 | 17.47 | 1292 |
| 70 | 0 | 0 | 0 | 1.12 | 18.18 | 1242 | 17.64 | 1280 |
| 80 | 0 | 0 | 0 | 1.12 | 18.35 | 1231 | 17.8 | 1268 |
| 90 | 0 | 0 | 0 | 1.12 | 18.52 | 1220 | 17.97 | 1257 |
| 100 | 0 | 0 | 0 | 1.12 | 18.69 | 1209 | 18.13 | 1246 |
| 110 | 0 | 0 | 0 | 1.12 | 18.86 | 1198 | 18.29 | 1235 |
| 120 | 0 | 0 | 0 | 1.12 | 19.02 | 1188 | 18.46 | 1224 |
| 130 | 0 | 0 | 0 | 1.12 | 19.19 | 1178 | 18.62 | 1214 |
| 167 | 0 | 0 | 0 | 1.12 | 19.78 | 1143 | 19.21 | 1177 |
| 212 | 0 | 0 | 0 | 1.12 | 20.49 | 1105 | 19.91 | 1136 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 25 | 0 | 8 | 0 | 1.746 | 27.98 | 1975 | 27.62 | 2000* |
| 25 | 0 | 0 | 0 | 1.12 | 27.43 | 1292 | 26.88 | 1317 |
| 30 | 0 | 0 | 0 | 1.12 | 27.52 | 1287 | 26.97 | 1313 |
| 40 | 0 | 0 | 0 | 1.12 | 27.69 | 1279 | 27.14 | 1305 |
| 50 | 0 | 0 | 0 | 1.12 | 27.87 | 1271 | 27.32 | 1297 |
| 60 | 0 | 0 | 0 | 1.12 | 28.05 | 1264 | 27.49 | 1289 |
| 70 | 0 | 0 | 0 | 1.12 | 28.23 | 1256 | 27.66 | 1281 |
| 80 | 0 | 0 | 0 | 1.12 | 28.4 | 1248 | 27.83 | 1273 |
| 90 | 0 | 0 | 0 | 1.12 | 28.58 | 1241 | 28 | 1266 |
| 100 | 0 | 0 | 0 | 1.12 | 28.75 | 1234 | 28.17 | 1258 |
| 110 | 0 | 0 | 0 | 1.12 | 28.92 | 1226 | 28.34 | 1251 |
| 120 | 0 | 0 | 0 | 1.12 | 29.09 | 1219 | 28.5 | 1244 |
| 130 | 0 | 0 | 0 | 1.12 | 29.26 | 1212 | 28.67 | 1237 |
| 167 | 0 | 0 | 0 | 1.12 | 29.89 | 1188 | 29.29 | 1212 |
| 212 | 0 | 0 | 0 | 1.12 | 30.63 | 1160 | 30.02 | 1183 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 |
| 100.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 |
| 125.00 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 |
| 150.00 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-4 |
| 175.00 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 |
| 200.00 | 3-1 | 3-4 | 3-7 | 3-10 | 4-1 | 4-5 | 4-9 | 5-2 | 5-6 | 5-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 |
| 100.00 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 | 1-9 |
| 125.00 | 1-5 | 1-6 | 1-8 | 1-10 | 2-0 | 2-2 | 2-4 | 2-5 | 2-7 | 2-9 |
| 150.00 | 2-0 | 2-3 | 2-5 | 2-8 | 2-10 | 3-1 | 3-4 | 3-6 | 3-9 | 4-0 |
| 175.00 | 2-9 | 3-0 | 3-4 | 3-7 | 3-11 | 4-2 | 4-6 | 4-10 | 5-1 | 5-5 |
| 200.00 | 3-7 | 3-11 | 4-4 | 4-8 | 5-1 | 5-6 | 5-11 | 6-3 | 6-8 | 7-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.21

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 0-11 | 1-0 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-2 | 1-3 |
| 125.00 | 1-5 | 1-6 | 1-7 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 |
| 150.00 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 |
| 175.00 | 2-10 | 2-11 | 3-1 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-9 |
| 200.00 | 3-9 | 3-10 | 4-0 | 4-2 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 4-11 |
| 225.00 | 4-8 | 4-10 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 |
| 250.00 | 5-10 | 6-0 | 6-3 | 6-5 | 6-8 | 6-11 | 7-1 | 7-4 | 7-6 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-7 | 1-8 | 1-9 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 |
| 175.00 | 3-2 | 3-3 | 3-4 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 |
| 200.00 | 4-1 | 4-3 | 4-5 | 4-7 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 |
| 225.00 | 5-2 | 5-5 | 5-7 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 |
| 250.00 | 6-5 | 6-8 | 6-11 | 7-1 | 7-4 | 7-7 | 7-9 | 8-0 | 8-3 | 8-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.22

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-3 | 2-4 | 2-4 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 |
| 175.00 | 3-1 | 3-2 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 |
| 200.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 |
| 225.00 | 5-1 | 5-2 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 |
| 250.00 | 6-4 | 6-5 | 6-6 | 6-8 | 6-9 | 6-10 | 7-0 | 7-1 | 7-2 | 7-4 |
| 275.00 | 7-8 | 7-9 | 7-11 | 8-1 | 8-2 | 8-4 | 8-5 | 8-7 | 8-9 | 8-10 |
| 300.00 | 9-1 | 9-3 | 9-5 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-4 | 10-6 |
| 325.00 | 10-8 | 10-10 | 11-1 | 11-3 | 11-5 | 11-7 | 11-10 | 12-0 | 12-2 | 12-4 |
| 350.00 | 12-5 | 12-7 | 12-10 | 13-1 | 13-3 | 13-6 | 13-8 | 13-11 | 14-1 | 14-4 |
| 375.00 | 14-3 | 14-6 | 14-9 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 | 16-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-5 | 2-5 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 |
| 175.00 | 3-3 | 3-4 | 3-4 | 3-5 | 3-6 | 3-6 | 3-7 | 3-8 | 3-8 | 3-9 |
| 200.00 | 4-3 | 4-4 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 |
| 225.00 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 |
| 250.00 | 6-8 | 6-9 | 6-11 | 7-0 | 7-1 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 |
| 275.00 | 8-1 | 8-2 | 8-4 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 |
| 300.00 | 9-7 | 9-9 | 9-11 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 | 10-11 | 11-1 |
| 325.00 | 11-3 | 11-5 | 11-8 | 11-10 | 12-0 | 12-3 | 12-5 | 12-7 | 12-9 | 13-0 |
| 350.00 | 13-1 | 13-3 | 13-6 | 13-9 | 13-11 | 14-2 | 14-5 | 14-7 | 14-10 | 15-0 |
| 375.00 | 15-0 | 15-3 | 15-6 | 15-9 | 16-0 | 16-3 | 16-6 | 16-9 | 17-0 | 17-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.23

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 |
| 225.00 | 5-4 | 5-4 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 | 5-9 |
| 250.00 | 6-7 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-2 |
| 275.00 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 300.00 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 |
| 325.00 | 11-1 | 11-2 | 11-4 | 11-5 | 11-6 | 11-8 | 11-9 | 11-10 | 12-0 | 12-1 |
| 350.00 | 12-10 | 13-0 | 13-1 | 13-3 | 13-4 | 13-6 | 13-7 | 13-9 | 13-10 | 14-0 |
| 375.00 | 14-9 | 14-11 | 15-1 | 15-2 | 15-4 | 15-6 | 15-8 | 15-9 | 15-11 | 16-1 |
| 400.00 | 16-9 | 17-0 | 17-2 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 |
| 425.00 | 19-0 | 19-2 | 19-4 | 19-6 | 19-9 | 19-11 | 20-1 | 20-3 | 20-6 | 20-8 |
| 450.00 | 21-3 | 21-6 | 21-8 | 21-11 | 22-1 | 22-4 | 22-7 | 22-9 | 23-0 | 23-2 |
| 475.00 | 23-8 | 23-11 | 24-2 | 24-5 | 24-8 | 24-11 | 25-2 | 25-4 | 25-7 | 25-10 |
| 500.00 | 26-3 | 26-6 | 26-10 | 27-1 | 27-4 | 27-7 | 27-10 | 28-1 | 28-4 | 28-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 |
| 225.00 | 5-6 | 5-6 | 5-7 | 5-8 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 |
| 250.00 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 |
| 275.00 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 |
| 300.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 325.00 | 11-5 | 11-6 | 11-8 | 11-9 | 11-11 | 12-0 | 12-1 | 12-3 | 12-4 | 12-5 |
| 350.00 | 13-3 | 13-5 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 | 14-2 | 14-4 | 14-5 |
| 375.00 | 15-3 | 15-4 | 15-6 | 15-8 | 15-10 | 16-0 | 16-2 | 16-3 | 16-5 | 16-7 |
| 400.00 | 17-4 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-8 | 18-10 |
| 425.00 | 19-7 | 19-9 | 19-11 | 20-2 | 20-4 | 20-6 | 20-9 | 20-11 | 21-1 | 21-4 |
| 450.00 | 21-11 | 22-2 | 22-4 | 22-7 | 22-10 | 23-0 | 23-3 | 23-6 | 23-8 | 23-11 |
| 475.00 | 24-5 | 24-8 | 24-11 | 25-2 | 25-5 | 25-8 | 25-11 | 26-2 | 26-5 | 26-7 |
| 500.00 | 27-1 | 27-4 | 27-8 | 27-11 | 28-2 | 28-5 | 28-9 | 29-0 | 29-3 | 29-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.24

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 |
| 275.00 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 |
| 300.00 | 9-7 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 |
| 325.00 | 11-4 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-10 | 11-11 |
| 350.00 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 |
| 375.00 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-8 | 15-9 | 15-10 | 15-11 |
| 400.00 | 17-2 | 17-3 | 17-4 | 17-5 | 17-7 | 17-8 | 17-9 | 17-11 | 18-0 | 18-1 |
| 425.00 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 | 20-0 | 20-1 | 20-2 | 20-4 | 20-5 |
| 450.00 | 21-8 | 21-10 | 22-0 | 22-1 | 22-3 | 22-5 | 22-6 | 22-8 | 22-10 | 22-11 |
| 475.00 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 | 24-11 | 25-1 | 25-3 | 25-5 | 25-7 |
| 500.00 | 26-10 | 27-0 | 27-2 | 27-4 | 27-6 | 27-8 | 27-10 | 28-0 | 28-2 | 28-4 |
| 525.00 | 29-7 | 29-9 | 29-11 | 30-2 | 30-4 | 30-6 | 30-8 | 30-11 | 31-1 | 31-3 |
| 550.00 | 32-5 | 32-8 | 32-10 | 33-1 | 33-3 | 33-6 | 33-8 | 33-11 | 34-1 | 34-4 |
| 575.00 | 35-6 | 35-9 | 35-11 | 36-2 | 36-5 | 36-8 | 36-10 | 37-1 | 37-4 | 37-6 |
| 600.00 | 38-8 | 38-11 | 39-2 | 39-5 | 39-8 | 39-11 | 40-2 | 40-5 | 40-8 | 40-11 |
| 625.00 | 41-11 | 42-3 | 42-6 | 42-9 | 43-1 | 43-4 | 43-7 | 43-10 | 44-1 | 44-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 |
| 275.00 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 |
| 300.00 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-5 |
| 325.00 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 |
| 350.00 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 |
| 375.00 | 15-4 | 15-5 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 |
| 400.00 | 17-6 | 17-7 | 17-8 | 17-10 | 17-11 | 18-0 | 18-2 | 18-3 | 18-4 | 18-6 |
| 425.00 | 19-9 | 19-10 | 20-0 | 20-1 | 20-3 | 20-4 | 20-6 | 20-7 | 20-9 | 20-10 |
| 450.00 | 22-2 | 22-3 | 22-5 | 22-7 | 22-8 | 22-10 | 23-0 | 23-2 | 23-3 | 23-5 |
| 475.00 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 | 25-6 | 25-7 | 25-9 | 25-11 | 26-1 |
| 500.00 | 27-4 | 27-6 | 27-8 | 27-10 | 28-1 | 28-3 | 28-5 | 28-7 | 28-9 | 28-11 |
| 525.00 | 30-2 | 30-4 | 30-7 | 30-9 | 30-11 | 31-2 | 31-4 | 31-6 | 31-9 | 31-11 |
| 550.00 | 33-1 | 33-4 | 33-6 | 33-9 | 34-0 | 34-2 | 34-5 | 34-7 | 34-10 | 35-0 |
| 575.00 | 36-2 | 36-5 | 36-8 | 36-11 | 37-2 | 37-5 | 37-7 | 37-10 | 38-1 | 38-4 |
| 600.00 | 39-5 | 39-8 | 39-11 | 40-3 | 40-6 | 40-9 | 41-0 | 41-3 | 41-6 | 41-9 |
| 625.00 | 42-10 | 43-1 | 43-4 | 43-8 | 43-11 | 44-2 | 44-6 | 44-9 | 45-0 | 45-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 3.89 | 994 | 3.87 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 3.75 | 376 | 3.69 | 382 |
| 30 | 0 | 0 | 0 | 1.12 | 3.9 | 361 | 3.84 | 367 |
| 40 | 0 | 0 | 0 | 1.12 | 3.95 | 356 | 3.89 | 362 |
| 50 | 0 | 0 | 0 | 1.12 | 4 | 352 | 3.94 | 357 |
| 60 | 0 | 0 | 0 | 1.12 | 4.05 | 348 | 3.99 | 353 |
| 70 | 0 | 0 | 0 | 1.12 | 4.1 | 344 | 4.04 | 349 |
| 80 | 0 | 0 | 0 | 1.12 | 4.15 | 340 | 4.09 | 345 |
| 90 | 0 | 0 | 0 | 1.12 | 4.2 | 336 | 4.14 | 341 |
| 100 | 0 | 0 | 0 | 1.12 | 4.25 | 332 | 4.18 | 337 |
| 110 | 0 | 0 | 0 | 1.12 | 4.28 | 329 | 4.23 | 333 |
| 120 | 0 | 0 | 0 | 1.12 | 4.31 | 327 | 4.28 | 330 |
| 130 | 0 | 0 | 0 | 1.12 | 4.34 | 325 | 4.32 | 326 |
| 167 | 0 | 0 | 0 | 1.12 | 4.45 | 317 | 4.44 | 318 |
| 212 | 0 | 0 | 0 | 1.12 | 4.58 | 308 | 4.57 | 309 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 15.78 | 998 | 15.75 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 15.63 | 367 | 15.58 | 368 |
| 30 | 0 | 0 | 0 | 1.12 | 15.79 | 363 | 15.73 | 365 |
| 40 | 0 | 0 | 0 | 1.12 | 15.84 | 362 | 15.78 | 364 |
| 50 | 0 | 0 | 0 | 1.12 | 15.9 | 361 | 15.83 | 363 |
| 60 | 0 | 0 | 0 | 1.12 | 15.95 | 360 | 15.88 | 361 |
| 70 | 0 | 0 | 0 | 1.12 | 16 | 359 | 15.93 | 360 |
| 80 | 0 | 0 | 0 | 1.12 | 16.05 | 358 | 15.98 | 359 |
| 90 | 0 | 0 | 0 | 1.12 | 16.1 | 357 | 16.03 | 358 |
| 100 | 0 | 0 | 0 | 1.12 | 16.15 | 356 | 16.09 | 357 |
| 110 | 0 | 0 | 0 | 1.12 | 16.2 | 355 | 16.14 | 356 |
| 120 | 0 | 0 | 0 | 1.12 | 16.24 | 354 | 16.19 | 355 |
| 130 | 0 | 0 | 0 | 1.12 | 16.27 | 353 | 16.24 | 354 |
| 167 | 0 | 0 | 0 | 1.12 | 16.39 | 351 | 16.38 | 351 |
| 212 | 0 | 0 | 0 | 1.12 | 16.54 | 348 | 16.53 | 348 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 36.69 | 999 | 36.66 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 36.54 | 365 | 36.48 | 366 |
| 30 | 0 | 0 | 0 | 1.12 | 36.7 | 364 | 36.64 | 365 |
| 40 | 0 | 0 | 0 | 1.12 | 36.75 | 364 | 36.69 | 364 |
| 50 | 0 | 0 | 0 | 1.12 | 36.8 | 363 | 36.74 | 364 |
| 60 | 0 | 0 | 0 | 1.12 | 36.86 | 363 | 36.79 | 363 |
| 70 | 0 | 0 | 0 | 1.12 | 36.91 | 362 | 36.84 | 363 |
| 80 | 0 | 0 | 0 | 1.12 | 36.96 | 362 | 36.89 | 362 |
| 90 | 0 | 0 | 0 | 1.12 | 37.01 | 361 | 36.94 | 362 |
| 100 | 0 | 0 | 0 | 1.12 | 37.06 | 361 | 36.99 | 361 |
| 110 | 0 | 0 | 0 | 1.12 | 37.12 | 360 | 37.05 | 361 |
| 120 | 0 | 0 | 0 | 1.12 | 37.15 | 360 | 37.1 | 361 |
| 130 | 0 | 0 | 0 | 1.12 | 37.18 | 360 | 37.15 | 360 |
| 167 | 0 | 0 | 0 | 1.12 | 37.31 | 359 | 37.3 | 359 |
| 212 | 0 | 0 | 0 | 1.12 | 37.46 | 357 | 37.45 | 357 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 68.86 | 1000 | 68.83 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 68.71 | 365 | 68.66 | 365 |
| 30 | 0 | 0 | 0 | 1.12 | 68.87 | 364 | 68.81 | 364 |
| 40 | 0 | 0 | 0 | 1.12 | 68.92 | 364 | 68.86 | 364 |
| 50 | 0 | 0 | 0 | 1.12 | 68.97 | 364 | 68.91 | 364 |
| 60 | 0 | 0 | 0 | 1.12 | 69.03 | 364 | 68.96 | 364 |
| 70 | 0 | 0 | 0 | 1.12 | 69.08 | 363 | 69.01 | 364 |
| 80 | 0 | 0 | 0 | 1.12 | 69.13 | 363 | 69.06 | 363 |
| 90 | 0 | 0 | 0 | 1.12 | 69.18 | 363 | 69.11 | 363 |
| 100 | 0 | 0 | 0 | 1.12 | 69.23 | 363 | 69.16 | 363 |
| 110 | 0 | 0 | 0 | 1.12 | 69.29 | 362 | 69.21 | 363 |
| 120 | 0 | 0 | 0 | 1.12 | 69.32 | 362 | 69.27 | 363 |
| 130 | 0 | 0 | 0 | 1.12 | 69.35 | 362 | 69.32 | 362 |
| 167 | 0 | 0 | 0 | 1.12 | 69.48 | 362 | 69.47 | 362 |
| 212 | 0 | 0 | 0 | 1.12 | 69.64 | 361 | 69.63 | 361 |

* Design Condition

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 |
| 100.00 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 |
| 125.00 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 |
| 150.00 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-7 |
| 175.00 | 11-8 | 11-10 | 12-0 | 12-2 | 12-3 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 |
| 200.00 | 15-3 | 15-6 | 15-8 | 15-10 | 16-1 | 16-3 | 16-6 | 16-8 | 16-10 | 17-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 |
| 100.00 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 |
| 125.00 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-8 |
| 150.00 | 8-8 | 8-10 | 8-11 | 9-0 | 9-2 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 |
| 175.00 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-7 | 12-9 | 12-11 | 13-1 | 13-2 |
| 200.00 | 15-6 | 15-8 | 15-11 | 16-1 | 16-4 | 16-6 | 16-9 | 16-11 | 17-1 | 17-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.28

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 |
| 125.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 |
| 150.00 | 8-9 | 8-10 | 8-10 | 8-10 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 |
| 175.00 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-3 | 12-4 |
| 200.00 | 15-8 | 15-9 | 15-9 | 15-10 | 15-11 | 15-11 | 16-0 | 16-0 | 16-1 | 16-2 |
| 225.00 | 19-11 | 19-11 | 20-0 | 20-1 | 20-2 | 20-3 | 20-3 | 20-4 | 20-5 | 20-6 |
| 250.00 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-11 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 |
| 125.00 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 |
| 150.00 | 8-10 | 8-10 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 |
| 175.00 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 |
| 200.00 | 15-9 | 15-10 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 |
| 225.00 | 20-0 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-7 |
| 250.00 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.29

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-1 | 9-1 | 9-1 | 9-2 |
| 175.00 | 12-4 | 12-4 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 | 12-5 |
| 200.00 | 16-1 | 16-1 | 16-2 | 16-2 | 16-2 | 16-2 | 16-3 | 16-3 | 16-3 | 16-3 |
| 225.00 | 20-5 | 20-5 | 20-6 | 20-6 | 20-6 | 20-7 | 20-7 | 20-7 | 20-8 | 20-8 |
| 250.00 | 25-3 | 25-4 | 25-4 | 25-4 | 25-5 | 25-5 | 25-6 | 25-6 | 25-6 | 25-7 |
| 275.00 | 30-8 | 30-8 | 30-9 | 30-9 | 30-10 | 30-10 | 30-11 | 30-11 | 31-0 | 31-0 |
| 300.00 | 36-7 | 36-8 | 36-8 | 36-9 | 36-9 | 36-10 | 36-11 | 36-11 | 37-0 | 37-1 |
| 325.00 | 43-1 | 43-2 | 43-2 | 43-3 | 43-4 | 43-5 | 43-5 | 43-6 | 43-7 | 43-7 |
| 350.00 | 50-2 | 50-3 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 | 50-9 |
| 375.00 | 57-9 | 57-10 | 57-11 | 58-0 | 58-1 | 58-2 | 58-3 | 58-4 | 58-5 | 58-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-0 | 9-1 | 9-1 | 9-1 | 9-1 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 |
| 175.00 | 12-4 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 | 12-5 | 12-6 |
| 200.00 | 16-1 | 16-2 | 16-2 | 16-2 | 16-2 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 |
| 225.00 | 20-5 | 20-6 | 20-6 | 20-6 | 20-7 | 20-7 | 20-7 | 20-8 | 20-8 | 20-8 |
| 250.00 | 25-4 | 25-4 | 25-4 | 25-5 | 25-5 | 25-6 | 25-6 | 25-7 | 25-7 | 25-7 |
| 275.00 | 30-8 | 30-9 | 30-9 | 30-10 | 30-10 | 30-11 | 31-0 | 31-0 | 31-1 | 31-1 |
| 300.00 | 36-8 | 36-8 | 36-9 | 36-10 | 36-10 | 36-11 | 37-0 | 37-0 | 37-1 | 37-1 |
| 325.00 | 43-2 | 43-3 | 43-3 | 43-4 | 43-5 | 43-6 | 43-6 | 43-7 | 43-8 | 43-8 |
| 350.00 | 50-3 | 50-4 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 | 50-10 | 50-11 |
| 375.00 | 57-11 | 58-0 | 58-1 | 58-2 | 58-3 | 58-4 | 58-5 | 58-6 | 58-7 | 58-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.30

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 16-9 | 16-9 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 |
| 225.00 | 21-3 | 21-3 | 21-3 | 21-3 | 21-3 | 21-4 | 21-4 | 21-4 | 21-4 | 21-4 |
| 250.00 | 26-3 | 26-3 | 26-4 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-5 |
| 275.00 | 31-11 | 31-11 | 31-11 | 31-11 | 32-0 | 32-0 | 32-0 | 32-0 | 32-1 | 32-1 |
| 300.00 | 38-1 | 38-1 | 38-1 | 38-2 | 38-2 | 38-2 | 38-3 | 38-3 | 38-3 | 38-4 |
| 325.00 | 44-10 | 44-10 | 44-11 | 44-11 | 45-0 | 45-0 | 45-0 | 45-1 | 45-1 | 45-1 |
| 350.00 | 52-2 | 52-3 | 52-3 | 52-4 | 52-4 | 52-5 | 52-5 | 52-6 | 52-6 | 52-6 |
| 375.00 | 60-2 | 60-3 | 60-3 | 60-4 | 60-4 | 60-5 | 60-5 | 60-6 | 60-6 | 60-7 |
| 400.00 | 68-9 | 68-10 | 68-10 | 68-11 | 69-0 | 69-0 | 69-1 | 69-1 | 69-2 | 69-3 |
| 425.00 | 78-0 | 78-1 | 78-1 | 78-2 | 78-3 | 78-3 | 78-4 | 78-5 | 78-5 | 78-6 |
| 450.00 | 87-10 | 87-11 | 88-0 | 88-1 | 88-2 | 88-2 | 88-3 | 88-4 | 88-5 | 88-6 |
| 475.00 | 98-5 | 98-6 | 98-7 | 98-8 | 98-9 | 98-9 | 98-10 | 98-11 | 99-0 | 99-1 |
| 500.00 | 109-8 | 109-9 | 109-10 | 109-11 | 110-0 | 110-1 | 110-2 | 110-3 | 110-4 | 110-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 16-9 | 16-9 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-10 | 16-10 |
| 225.00 | 21-3 | 21-3 | 21-3 | 21-3 | 21-4 | 21-4 | 21-4 | 21-4 | 21-4 | 21-5 |
| 250.00 | 26-3 | 26-4 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-5 | 26-6 |
| 275.00 | 31-11 | 31-11 | 31-11 | 32-0 | 32-0 | 32-0 | 32-1 | 32-1 | 32-1 | 32-1 |
| 300.00 | 38-1 | 38-2 | 38-2 | 38-2 | 38-3 | 38-3 | 38-3 | 38-4 | 38-4 | 38-4 |
| 325.00 | 44-10 | 44-11 | 44-11 | 45-0 | 45-0 | 45-0 | 45-1 | 45-1 | 45-2 | 45-2 |
| 350.00 | 52-3 | 52-3 | 52-4 | 52-4 | 52-5 | 52-5 | 52-6 | 52-6 | 52-7 | 52-7 |
| 375.00 | 60-3 | 60-3 | 60-4 | 60-4 | 60-5 | 60-5 | 60-6 | 60-6 | 60-7 | 60-7 |
| 400.00 | 68-10 | 68-10 | 68-11 | 69-0 | 69-0 | 69-1 | 69-2 | 69-2 | 69-3 | 69-3 |
| 425.00 | 78-1 | 78-1 | 78-2 | 78-3 | 78-4 | 78-4 | 78-5 | 78-6 | 78-6 | 78-7 |
| 450.00 | 87-11 | 88-0 | 88-1 | 88-2 | 88-3 | 88-3 | 88-4 | 88-5 | 88-6 | 88-7 |
| 475.00 | 98-6 | 98-7 | 98-8 | 98-9 | 98-10 | 98-11 | 99-0 | 99-0 | 99-1 | 99-2 |
| 500.00 | 109-9 | 109-10 | 109-11 | 110-0 | 110-1 | 110-2 | 110-3 | 110-4 | 110-5 | 110-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS



OH823.31

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 2.59 | 1487 | 2.57 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 2.27 | 617 | 2.17 | 648 |
| 30 | 0 | 0 | 0 | 1.12 | 2.51 | 560 | 2.4 | 585 |
| 40 | 0 | 0 | 0 | 1.12 | 2.58 | 544 | 2.47 | 568 |
| 50 | 0 | 0 | 0 | 1.12 | 2.65 | 529 | 2.54 | 552 |
| 60 | 0 | 0 | 0 | 1.12 | 2.72 | 515 | 2.61 | 537 |
| 70 | 0 | 0 | 0 | 1.12 | 2.79 | 503 | 2.68 | 523 |
| 80 | 0 | 0 | 0 | 1.12 | 2.86 | 491 | 2.75 | 510 |
| 90 | 0 | 0 | 0 | 1.12 | 2.93 | 480 | 2.82 | 498 |
| 100 | 0 | 0 | 0 | 1.12 | 2.99 | 469 | 2.88 | 487 |
| 110 | 0 | 0 | 0 | 1.12 | 3.06 | 459 | 2.95 | 476 |
| 120 | 0 | 0 | 0 | 1.12 | 3.12 | 450 | 3.01 | 466 |
| 130 | 0 | 0 | 0 | 1.12 | 3.16 | 444 | 3.07 | 457 |
| 167 | 0 | 0 | 0 | 1.12 | 3.3 | 426 | 3.29 | 427 |
| 212 | 0 | 0 | 0 | 1.12 | 3.47 | 406 | 3.46 | 407 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 10.39 | 1496 | 10.36 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 10.06 | 562 | 9.95 | 569 |
| 30 | 0 | 0 | 0 | 1.12 | 10.3 | 550 | 10.18 | 556 |
| 40 | 0 | 0 | 0 | 1.12 | 10.37 | 546 | 10.25 | 552 |
| 50 | 0 | 0 | 0 | 1.12 | 10.45 | 542 | 10.33 | 548 |
| 60 | 0 | 0 | 0 | 1.12 | 10.53 | 538 | 10.41 | 544 |
| 70 | 0 | 0 | 0 | 1.12 | 10.6 | 534 | 10.48 | 540 |
| 80 | 0 | 0 | 0 | 1.12 | 10.68 | 530 | 10.56 | 536 |
| 90 | 0 | 0 | 0 | 1.12 | 10.76 | 527 | 10.63 | 533 |
| 100 | 0 | 0 | 0 | 1.12 | 10.83 | 523 | 10.7 | 529 |
| 110 | 0 | 0 | 0 | 1.12 | 10.9 | 520 | 10.78 | 526 |
| 120 | 0 | 0 | 0 | 1.12 | 10.98 | 516 | 10.85 | 522 |
| 130 | 0 | 0 | 0 | 1.12 | 11.05 | 513 | 10.92 | 519 |
| 167 | 0 | 0 | 0 | 1.12 | 11.24 | 505 | 11.19 | 507 |
| 212 | 0 | 0 | 0 | 1.12 | 11.45 | 496 | 11.43 | 496 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 23.66 | 1498 | 23.63 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 23.33 | 553 | 23.22 | 556 |
| 30 | 0 | 0 | 0 | 1.12 | 23.57 | 548 | 23.45 | 550 |
| 40 | 0 | 0 | 0 | 1.12 | 23.65 | 546 | 23.53 | 549 |
| 50 | 0 | 0 | 0 | 1.12 | 23.73 | 544 | 23.6 | 547 |
| 60 | 0 | 0 | 0 | 1.12 | 23.8 | 543 | 23.68 | 545 |
| 70 | 0 | 0 | 0 | 1.12 | 23.88 | 541 | 23.75 | 544 |
| 80 | 0 | 0 | 0 | 1.12 | 23.96 | 539 | 23.83 | 542 |
| 90 | 0 | 0 | 0 | 1.12 | 24.04 | 538 | 23.91 | 540 |
| 100 | 0 | 0 | 0 | 1.12 | 24.11 | 536 | 23.98 | 539 |
| 110 | 0 | 0 | 0 | 1.12 | 24.19 | 534 | 24.06 | 537 |
| 120 | 0 | 0 | 0 | 1.12 | 24.27 | 533 | 24.13 | 536 |
| 130 | 0 | 0 | 0 | 1.12 | 24.34 | 531 | 24.21 | 534 |
| 167 | 0 | 0 | 0 | 1.12 | 24.55 | 527 | 24.49 | 528 |
| 212 | 0 | 0 | 0 | 1.12 | 24.77 | 523 | 24.76 | 523 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 42.91 | 1499 | 42.88 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 42.59 | 550 | 42.47 | 551 |
| 30 | 0 | 0 | 0 | 1.12 | 42.82 | 547 | 42.7 | 549 |
| 40 | 0 | 0 | 0 | 1.12 | 42.9 | 546 | 42.78 | 548 |
| 50 | 0 | 0 | 0 | 1.12 | 42.98 | 545 | 42.85 | 547 |
| 60 | 0 | 0 | 0 | 1.12 | 43.06 | 544 | 42.93 | 546 |
| 70 | 0 | 0 | 0 | 1.12 | 43.13 | 544 | 43.01 | 545 |
| 80 | 0 | 0 | 0 | 1.12 | 43.21 | 543 | 43.08 | 544 |
| 90 | 0 | 0 | 0 | 1.12 | 43.29 | 542 | 43.16 | 543 |
| 100 | 0 | 0 | 0 | 1.12 | 43.37 | 541 | 43.24 | 542 |
| 110 | 0 | 0 | 0 | 1.12 | 43.45 | 540 | 43.31 | 542 |
| 120 | 0 | 0 | 0 | 1.12 | 43.52 | 539 | 43.39 | 541 |
| 130 | 0 | 0 | 0 | 1.12 | 43.6 | 538 | 43.46 | 540 |
| 167 | 0 | 0 | 0 | 1.12 | 43.82 | 536 | 43.74 | 537 |
| 212 | 0 | 0 | 0 | 1.12 | 44.05 | 533 | 44.03 | 533 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 68.98 | 1499 | 68.95 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 68.65 | 548 | 68.54 | 549 |
| 30 | 0 | 0 | 0 | 1.12 | 68.89 | 547 | 68.77 | 548 |
| 40 | 0 | 0 | 0 | 1.12 | 68.97 | 546 | 68.84 | 547 |
| 50 | 0 | 0 | 0 | 1.12 | 69.04 | 546 | 68.92 | 547 |
| 60 | 0 | 0 | 0 | 1.12 | 69.12 | 545 | 69 | 546 |
| 70 | 0 | 0 | 0 | 1.12 | 69.2 | 545 | 69.07 | 546 |
| 80 | 0 | 0 | 0 | 1.12 | 69.28 | 544 | 69.15 | 545 |
| 90 | 0 | 0 | 0 | 1.12 | 69.36 | 544 | 69.23 | 545 |
| 100 | 0 | 0 | 0 | 1.12 | 69.43 | 543 | 69.3 | 544 |
| 110 | 0 | 0 | 0 | 1.12 | 69.51 | 543 | 69.38 | 544 |
| 120 | 0 | 0 | 0 | 1.12 | 69.59 | 542 | 69.45 | 543 |
| 130 | 0 | 0 | 0 | 1.12 | 69.67 | 542 | 69.53 | 543 |
| 167 | 0 | 0 | 0 | 1.12 | 69.89 | 540 | 69.81 | 541 |
| 212 | 0 | 0 | 0 | 1.12 | 70.12 | 539 | 70.1 | 539 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 |
| 100.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 |
| 125.00 | 3-8 | 3-9 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 |
| 150.00 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-2 | 6-4 | 6-6 | 6-8 |
| 175.00 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 |
| 200.00 | 9-4 | 9-7 | 9-11 | 10-2 | 10-6 | 10-9 | 11-0 | 11-4 | 11-7 | 11-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 |
| 100.00 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 |
| 125.00 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 |
| 150.00 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-11 |
| 175.00 | 7-5 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 9-0 | 9-2 | 9-5 |
| 200.00 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 | 11-9 | 12-0 | 12-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.35

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-8 |
| 125.00 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 |
| 150.00 | 5-8 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 |
| 175.00 | 7-9 | 7-9 | 7-10 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 |
| 200.00 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 |
| 225.00 | 12-10 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-4 | 13-6 | 13-7 | 13-8 |
| 250.00 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 | 16-5 | 16-6 | 16-8 | 16-9 | 16-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 |
| 125.00 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 |
| 150.00 | 5-9 | 5-9 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 |
| 175.00 | 7-10 | 7-11 | 7-11 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 |
| 200.00 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 |
| 225.00 | 12-11 | 13-1 | 13-2 | 13-3 | 13-4 | 13-5 | 13-6 | 13-8 | 13-9 | 13-10 |
| 250.00 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-9 | 16-10 | 17-0 | 17-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.36

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-10 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 6-0 |
| 175.00 | 7-11 | 7-11 | 8-0 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 |
| 200.00 | 10-4 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 |
| 225.00 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 |
| 250.00 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 |
| 275.00 | 19-7 | 19-8 | 19-9 | 19-10 | 19-10 | 19-11 | 20-0 | 20-1 | 20-2 | 20-2 |
| 300.00 | 23-4 | 23-5 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 | 24-1 |
| 325.00 | 27-6 | 27-7 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 |
| 350.00 | 31-11 | 32-0 | 32-1 | 32-3 | 32-4 | 32-5 | 32-6 | 32-8 | 32-9 | 32-10 |
| 375.00 | 36-8 | 36-10 | 36-11 | 37-1 | 37-2 | 37-3 | 37-5 | 37-6 | 37-8 | 37-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 5-10 | 5-10 | 5-11 | 5-11 | 5-11 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 |
| 175.00 | 7-11 | 8-0 | 8-0 | 8-0 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 |
| 200.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 |
| 225.00 | 13-2 | 13-3 | 13-3 | 13-4 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 |
| 250.00 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 | 16-8 | 16-9 |
| 275.00 | 19-9 | 19-9 | 19-10 | 19-11 | 20-0 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 |
| 300.00 | 23-6 | 23-7 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 | 24-0 | 24-1 | 24-2 |
| 325.00 | 27-7 | 27-8 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 | 28-3 | 28-4 | 28-5 |
| 350.00 | 32-1 | 32-2 | 32-3 | 32-5 | 32-6 | 32-7 | 32-9 | 32-10 | 32-11 | 33-0 |
| 375.00 | 36-10 | 37-0 | 37-1 | 37-3 | 37-4 | 37-6 | 37-7 | 37-9 | 37-10 | 38-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.37

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-6 | 10-7 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-8 | 10-8 |
| 225.00 | 13-4 | 13-5 | 13-5 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-6 | 13-7 |
| 250.00 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 |
| 275.00 | 20-0 | 20-0 | 20-1 | 20-1 | 20-2 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 |
| 300.00 | 23-10 | 23-10 | 23-11 | 23-11 | 24-0 | 24-0 | 24-1 | 24-1 | 24-2 | 24-2 |
| 325.00 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 | 28-3 | 28-4 | 28-4 | 28-5 | 28-5 |
| 350.00 | 32-6 | 32-7 | 32-8 | 32-8 | 32-9 | 32-10 | 32-10 | 32-11 | 33-0 | 33-1 |
| 375.00 | 37-5 | 37-6 | 37-6 | 37-7 | 37-8 | 37-9 | 37-10 | 37-10 | 37-11 | 38-0 |
| 400.00 | 42-7 | 42-8 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 |
| 425.00 | 48-3 | 48-4 | 48-5 | 48-6 | 48-7 | 48-8 | 48-9 | 48-10 | 48-11 | 49-0 |
| 450.00 | 54-2 | 54-3 | 54-4 | 54-5 | 54-7 | 54-8 | 54-9 | 54-10 | 54-11 | 55-0 |
| 475.00 | 60-6 | 60-7 | 60-8 | 60-10 | 60-11 | 61-0 | 61-2 | 61-3 | 61-4 | 61-5 |
| 500.00 | 67-2 | 67-3 | 67-5 | 67-6 | 67-8 | 67-9 | 67-11 | 68-0 | 68-2 | 68-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 |
| 225.00 | 13-5 | 13-5 | 13-5 | 13-6 | 13-6 | 13-6 | 13-6 | 13-7 | 13-7 | 13-7 |
| 250.00 | 16-7 | 16-7 | 16-7 | 16-8 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-10 |
| 275.00 | 20-1 | 20-1 | 20-1 | 20-2 | 20-2 | 20-3 | 20-3 | 20-4 | 20-4 | 20-4 |
| 300.00 | 23-11 | 23-11 | 24-0 | 24-0 | 24-1 | 24-1 | 24-2 | 24-2 | 24-3 | 24-3 |
| 325.00 | 28-1 | 28-2 | 28-2 | 28-3 | 28-3 | 28-4 | 28-5 | 28-5 | 28-6 | 28-6 |
| 350.00 | 32-7 | 32-8 | 32-9 | 32-9 | 32-10 | 32-11 | 33-0 | 33-0 | 33-1 | 33-2 |
| 375.00 | 37-6 | 37-7 | 37-8 | 37-8 | 37-9 | 37-10 | 37-11 | 38-0 | 38-1 | 38-1 |
| 400.00 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-3 | 43-4 | 43-5 |
| 425.00 | 48-4 | 48-5 | 48-6 | 48-7 | 48-8 | 48-9 | 48-11 | 49-0 | 49-1 | 49-2 |
| 450.00 | 54-4 | 54-5 | 54-6 | 54-7 | 54-9 | 54-10 | 54-11 | 55-0 | 55-1 | 55-3 |
| 475.00 | 60-8 | 60-9 | 60-10 | 61-0 | 61-1 | 61-2 | 61-4 | 61-5 | 61-6 | 61-8 |
| 500.00 | 67-4 | 67-6 | 67-7 | 67-9 | 67-10 | 68-0 | 68-1 | 68-3 | 68-4 | 68-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-10 | 16-11 | 16-11 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-0 |
| 275.00 | 20-5 | 20-5 | 20-6 | 20-6 | 20-6 | 20-7 | 20-7 | 20-7 | 20-7 | 20-8 |
| 300.00 | 24-4 | 24-5 | 24-5 | 24-5 | 24-5 | 24-6 | 24-6 | 24-6 | 24-7 | 24-7 |
| 325.00 | 28-7 | 28-8 | 28-8 | 28-9 | 28-9 | 28-9 | 28-10 | 28-10 | 28-10 | 28-11 |
| 350.00 | 33-3 | 33-3 | 33-4 | 33-4 | 33-5 | 33-5 | 33-6 | 33-6 | 33-6 | 33-7 |
| 375.00 | 38-3 | 38-3 | 38-4 | 38-4 | 38-5 | 38-5 | 38-6 | 38-6 | 38-7 | 38-7 |
| 400.00 | 43-7 | 43-8 | 43-8 | 43-9 | 43-9 | 43-10 | 43-10 | 43-11 | 44-0 | 44-0 |
| 425.00 | 49-4 | 49-4 | 49-5 | 49-6 | 49-6 | 49-7 | 49-8 | 49-8 | 49-9 | 49-9 |
| 450.00 | 55-5 | 55-5 | 55-6 | 55-7 | 55-8 | 55-8 | 55-9 | 55-10 | 55-11 | 55-11 |
| 475.00 | 61-10 | 61-11 | 62-0 | 62-1 | 62-1 | 62-2 | 62-3 | 62-4 | 62-5 | 62-6 |
| 500.00 | 68-8 | 68-9 | 68-10 | 68-11 | 69-0 | 69-1 | 69-2 | 69-3 | 69-4 | 69-5 |
| 525.00 | 75-11 | 76-0 | 76-1 | 76-2 | 76-3 | 76-4 | 76-5 | 76-6 | 76-7 | 76-8 |
| 550.00 | 83-6 | 83-8 | 83-9 | 83-10 | 83-11 | 84-0 | 84-1 | 84-2 | 84-3 | 84-5 |
| 575.00 | 91-7 | 91-8 | 91-9 | 91-10 | 91-11 | 92-1 | 92-2 | 92-3 | 92-4 | 92-6 |
| 600.00 | 99-11 | 100-1 | 100-2 | 100-4 | 100-5 | 100-6 | 100-8 | 100-9 | 100-10 | 101-0 |
| 625.00 | 108-9 | 108-11 | 109-0 | 109-2 | 109-3 | 109-5 | 109-6 | 109-8 | 109-9 | 109-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 16-11 | 16-11 | 16-11 | 16-11 | 17-0 | 17-0 | 17-0 | 17-0 | 17-1 | 17-1 |
| 275.00 | 20-6 | 20-6 | 20-6 | 20-6 | 20-7 | 20-7 | 20-7 | 20-8 | 20-8 | 20-8 |
| 300.00 | 24-5 | 24-5 | 24-5 | 24-6 | 24-6 | 24-6 | 24-7 | 24-7 | 24-7 | 24-8 |
| 325.00 | 28-8 | 28-8 | 28-9 | 28-9 | 28-10 | 28-10 | 28-10 | 28-11 | 28-11 | 28-11 |
| 350.00 | 33-4 | 33-4 | 33-5 | 33-5 | 33-5 | 33-6 | 33-6 | 33-7 | 33-7 | 33-8 |
| 375.00 | 38-4 | 38-4 | 38-5 | 38-5 | 38-6 | 38-6 | 38-7 | 38-7 | 38-8 | 38-8 |
| 400.00 | 43-8 | 43-9 | 43-9 | 43-10 | 43-10 | 43-11 | 43-11 | 44-0 | 44-1 | 44-1 |
| 425.00 | 49-5 | 49-5 | 49-6 | 49-7 | 49-7 | 49-8 | 49-9 | 49-9 | 49-10 | 49-11 |
| 450.00 | 55-6 | 55-7 | 55-7 | 55-8 | 55-9 | 55-10 | 55-10 | 55-11 | 56-0 | 56-1 |
| 475.00 | 61-11 | 62-0 | 62-1 | 62-2 | 62-3 | 62-4 | 62-5 | 62-5 | 62-6 | 62-7 |
| 500.00 | 68-10 | 68-11 | 69-0 | 69-1 | 69-1 | 69-2 | 69-3 | 69-4 | 69-5 | 69-6 |
| 525.00 | 76-1 | 76-2 | 76-3 | 76-4 | 76-5 | 76-6 | 76-7 | 76-8 | 76-9 | 76-10 |
| 550.00 | 83-8 | 83-9 | 83-10 | 84-0 | 84-1 | 84-2 | 84-3 | 84-4 | 84-5 | 84-7 |
| 575.00 | 91-8 | 91-10 | 91-11 | 92-0 | 92-2 | 92-3 | 92-4 | 92-5 | 92-7 | 92-8 |
| 600.00 | 100-2 | 100-3 | 100-4 | 100-6 | 100-7 | 100-9 | 100-10 | 100-11 | 101-1 | 101-2 |
| 625.00 | 109-0 | 109-1 | 109-3 | 109-4 | 109-6 | 109-7 | 109-9 | 109-10 | 110-0 | 110-1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 1.93 | 1989 | 1.92 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 1.41 | 996 | 1.27 | 1103 |
| 30 | 0 | 0 | 0 | 1.12 | 1.7 | 824 | 1.54 | 912 |
| 40 | 0 | 0 | 0 | 1.12 | 1.79 | 781 | 1.63 | 861 |
| 50 | 0 | 0 | 0 | 1.12 | 1.89 | 743 | 1.72 | 817 |
| 60 | 0 | 0 | 0 | 1.12 | 1.98 | 710 | 1.8 | 777 |
| 70 | 0 | 0 | 0 | 1.12 | 2.06 | 680 | 1.89 | 742 |
| 80 | 0 | 0 | 0 | 1.12 | 2.15 | 653 | 1.98 | 710 |
| 90 | 0 | 0 | 0 | 1.12 | 2.23 | 629 | 2.06 | 681 |
| 100 | 0 | 0 | 0 | 1.12 | 2.31 | 607 | 2.14 | 655 |
| 110 | 0 | 0 | 0 | 1.12 | 2.39 | 587 | 2.22 | 632 |
| 120 | 0 | 0 | 0 | 1.12 | 2.47 | 569 | 2.3 | 610 |
| 130 | 0 | 0 | 0 | 1.12 | 2.54 | 552 | 2.37 | 591 |
| 167 | 0 | 0 | 0 | 1.12 | 2.71 | 518 | 2.64 | 531 |
| 212 | 0 | 0 | 0 | 1.12 | 2.9 | 485 | 2.88 | 488 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 7.75 | 1996 | 7.73 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 7.17 | 785 | 6.98 | 806 |
| 30 | 0 | 0 | 0 | 1.12 | 7.49 | 752 | 7.29 | 772 |
| 40 | 0 | 0 | 0 | 1.12 | 7.59 | 742 | 7.39 | 761 |
| 50 | 0 | 0 | 0 | 1.12 | 7.69 | 732 | 7.49 | 751 |
| 60 | 0 | 0 | 0 | 1.12 | 7.79 | 723 | 7.59 | 742 |
| 70 | 0 | 0 | 0 | 1.12 | 7.89 | 714 | 7.69 | 732 |
| 80 | 0 | 0 | 0 | 1.12 | 7.99 | 705 | 7.79 | 723 |
| 90 | 0 | 0 | 0 | 1.12 | 8.09 | 697 | 7.89 | 714 |
| 100 | 0 | 0 | 0 | 1.12 | 8.19 | 689 | 7.98 | 706 |
| 110 | 0 | 0 | 0 | 1.12 | 8.28 | 681 | 8.08 | 698 |
| 120 | 0 | 0 | 0 | 1.12 | 8.38 | 673 | 8.17 | 690 |
| 130 | 0 | 0 | 0 | 1.12 | 8.47 | 666 | 8.27 | 682 |
| 167 | 0 | 0 | 0 | 1.12 | 8.77 | 643 | 8.6 | 656 |
| 212 | 0 | 0 | 0 | 1.12 | 9.02 | 626 | 9 | 627 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 17.55 | 1998 | 17.53 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 16.96 | 752 | 16.77 | 761 |
| 30 | 0 | 0 | 0 | 1.12 | 17.28 | 739 | 17.08 | 747 |
| 40 | 0 | 0 | 0 | 1.12 | 17.39 | 734 | 17.19 | 743 |
| 50 | 0 | 0 | 0 | 1.12 | 17.49 | 730 | 17.29 | 739 |
| 60 | 0 | 0 | 0 | 1.12 | 17.59 | 726 | 17.39 | 734 |
| 70 | 0 | 0 | 0 | 1.12 | 17.7 | 722 | 17.49 | 730 |
| 80 | 0 | 0 | 0 | 1.12 | 17.8 | 718 | 17.59 | 726 |
| 90 | 0 | 0 | 0 | 1.12 | 17.9 | 714 | 17.69 | 722 |
| 100 | 0 | 0 | 0 | 1.12 | 18 | 710 | 17.79 | 718 |
| 110 | 0 | 0 | 0 | 1.12 | 18.1 | 706 | 17.89 | 714 |
| 120 | 0 | 0 | 0 | 1.12 | 18.2 | 702 | 17.99 | 711 |
| 130 | 0 | 0 | 0 | 1.12 | 18.3 | 699 | 18.09 | 707 |
| 167 | 0 | 0 | 0 | 1.12 | 18.66 | 686 | 18.45 | 693 |
| 212 | 0 | 0 | 0 | 1.12 | 18.94 | 676 | 18.88 | 678 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 31.53 | 1999 | 31.51 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 30.94 | 741 | 30.75 | 746 |
| 30 | 0 | 0 | 0 | 1.12 | 31.26 | 734 | 31.06 | 739 |
| 40 | 0 | 0 | 0 | 1.12 | 31.36 | 732 | 31.16 | 736 |
| 50 | 0 | 0 | 0 | 1.12 | 31.47 | 729 | 31.26 | 734 |
| 60 | 0 | 0 | 0 | 1.12 | 31.57 | 727 | 31.37 | 732 |
| 70 | 0 | 0 | 0 | 1.12 | 31.68 | 725 | 31.47 | 730 |
| 80 | 0 | 0 | 0 | 1.12 | 31.78 | 723 | 31.57 | 727 |
| 90 | 0 | 0 | 0 | 1.12 | 31.88 | 720 | 31.67 | 725 |
| 100 | 0 | 0 | 0 | 1.12 | 31.99 | 718 | 31.77 | 723 |
| 110 | 0 | 0 | 0 | 1.12 | 32.09 | 716 | 31.87 | 721 |
| 120 | 0 | 0 | 0 | 1.12 | 32.19 | 714 | 31.97 | 719 |
| 130 | 0 | 0 | 0 | 1.12 | 32.29 | 712 | 32.07 | 716 |
| 167 | 0 | 0 | 0 | 1.12 | 32.67 | 704 | 32.44 | 709 |
| 212 | 0 | 0 | 0 | 1.12 | 32.97 | 698 | 32.89 | 700 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 0.50G | 6 | 0 | 3.074 | 49.98 | 1999 | 49.96 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 49.4 | 736 | 49.2 | 739 |
| 30 | 0 | 0 | 0 | 1.12 | 49.71 | 732 | 49.51 | 735 |
| 40 | 0 | 0 | 0 | 1.12 | 49.82 | 731 | 49.61 | 733 |
| 50 | 0 | 0 | 0 | 1.12 | 49.92 | 729 | 49.72 | 732 |
| 60 | 0 | 0 | 0 | 1.12 | 50.03 | 728 | 49.82 | 731 |
| 70 | 0 | 0 | 0 | 1.12 | 50.13 | 726 | 49.92 | 729 |
| 80 | 0 | 0 | 0 | 1.12 | 50.23 | 725 | 50.02 | 728 |
| 90 | 0 | 0 | 0 | 1.12 | 50.34 | 724 | 50.12 | 726 |
| 100 | 0 | 0 | 0 | 1.12 | 50.44 | 722 | 50.22 | 725 |
| 110 | 0 | 0 | 0 | 1.12 | 50.54 | 721 | 50.33 | 724 |
| 120 | 0 | 0 | 0 | 1.12 | 50.65 | 720 | 50.43 | 722 |
| 130 | 0 | 0 | 0 | 1.12 | 50.75 | 718 | 50.53 | 721 |
| 167 | 0 | 0 | 0 | 1.12 | 51.13 | 713 | 50.9 | 716 |
| 212 | 0 | 0 | 0 | 1.12 | 51.44 | 709 | 51.35 | 710 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100.00 | 1-5 | 1-6 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 |
| 125.00 | 2-3 | 2-5 | 2-7 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 |
| 150.00 | 3-3 | 3-6 | 3-8 | 3-10 | 4-1 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 |
| 175.00 | 4-5 | 4-9 | 5-0 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 | 6-10 |
| 200.00 | 5-10 | 6-2 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-4 | 1-4 |
| 100.00 | 1-7 | 1-8 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 |
| 125.00 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 | 3-6 | 3-7 | 3-9 |
| 150.00 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 4-10 | 5-0 | 5-2 | 5-5 |
| 175.00 | 4-11 | 5-3 | 5-6 | 5-9 | 6-1 | 6-4 | 6-7 | 6-10 | 7-1 | 7-4 |
| 200.00 | 6-5 | 6-10 | 7-2 | 7-7 | 7-11 | 8-3 | 8-7 | 8-11 | 9-3 | 9-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.43

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-10 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 |
| 125.00 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 |
| 150.00 | 4-0 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 |
| 175.00 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 |
| 200.00 | 7-2 | 7-4 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-11 | 8-0 | 8-1 |
| 225.00 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-3 |
| 250.00 | 11-3 | 11-5 | 11-7 | 11-9 | 11-11 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 |
| 125.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 |
| 150.00 | 4-2 | 4-2 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-7 | 4-7 | 4-8 |
| 175.00 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 200.00 | 7-5 | 7-6 | 7-7 | 7-8 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-3 |
| 225.00 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 |
| 250.00 | 11-7 | 11-9 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-8 | 12-10 | 12-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.44

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-5 |
| 175.00 | 5-9 | 5-10 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 |
| 200.00 | 7-6 | 7-7 | 7-7 | 7-8 | 7-9 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 |
| 225.00 | 9-6 | 9-7 | 9-8 | 9-8 | 9-9 | 9-10 | 9-10 | 9-11 | 10-0 | 10-0 |
| 250.00 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-5 |
| 275.00 | 14-3 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 |
| 300.00 | 17-0 | 17-1 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-8 | 17-9 | 17-11 |
| 325.00 | 19-11 | 20-1 | 20-2 | 20-4 | 20-5 | 20-6 | 20-8 | 20-9 | 20-11 | 21-0 |
| 350.00 | 23-2 | 23-3 | 23-5 | 23-7 | 23-8 | 23-10 | 24-0 | 24-1 | 24-3 | 24-5 |
| 375.00 | 26-7 | 26-9 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-9 | 27-10 | 28-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-3 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 |
| 175.00 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 |
| 200.00 | 7-7 | 7-8 | 7-8 | 7-9 | 7-10 | 7-10 | 7-11 | 7-11 | 8-0 | 8-0 |
| 225.00 | 9-8 | 9-8 | 9-9 | 9-10 | 9-11 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 |
| 250.00 | 11-11 | 12-0 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 |
| 275.00 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 | 14-10 | 14-11 | 15-0 | 15-1 | 15-2 |
| 300.00 | 17-2 | 17-3 | 17-5 | 17-6 | 17-7 | 17-8 | 17-10 | 17-11 | 18-0 | 18-1 |
| 325.00 | 20-2 | 20-4 | 20-5 | 20-7 | 20-8 | 20-9 | 20-11 | 21-0 | 21-2 | 21-3 |
| 350.00 | 23-5 | 23-7 | 23-8 | 23-10 | 24-0 | 24-2 | 24-3 | 24-5 | 24-7 | 24-8 |
| 375.00 | 26-11 | 27-1 | 27-3 | 27-5 | 27-7 | 27-9 | 27-11 | 28-1 | 28-2 | 28-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.45

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-8 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 |
| 225.00 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 |
| 250.00 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 |
| 275.00 | 14-7 | 14-7 | 14-8 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 | 15-0 |
| 300.00 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-10 |
| 325.00 | 20-5 | 20-5 | 20-6 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 | 20-11 | 21-0 |
| 350.00 | 23-8 | 23-9 | 23-10 | 23-11 | 24-0 | 24-1 | 24-1 | 24-2 | 24-3 | 24-4 |
| 375.00 | 27-2 | 27-3 | 27-4 | 27-5 | 27-6 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 |
| 400.00 | 30-11 | 31-1 | 31-2 | 31-3 | 31-4 | 31-6 | 31-7 | 31-8 | 31-9 | 31-10 |
| 425.00 | 35-0 | 35-1 | 35-3 | 35-4 | 35-5 | 35-7 | 35-8 | 35-9 | 35-11 | 36-0 |
| 450.00 | 39-3 | 39-5 | 39-6 | 39-8 | 39-9 | 39-11 | 40-0 | 40-2 | 40-4 | 40-5 |
| 475.00 | 43-10 | 43-11 | 44-1 | 44-3 | 44-5 | 44-6 | 44-8 | 44-10 | 44-11 | 45-1 |
| 500.00 | 48-7 | 48-9 | 48-11 | 49-1 | 49-3 | 49-5 | 49-7 | 49-9 | 49-10 | 50-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-11 | 7-11 | 7-11 | 8-0 |
| 225.00 | 9-10 | 9-10 | 9-10 | 9-11 | 9-11 | 10-0 | 10-0 | 10-0 | 10-1 | 10-1 |
| 250.00 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 | 12-6 |
| 275.00 | 14-8 | 14-9 | 14-9 | 14-10 | 14-10 | 14-11 | 14-11 | 15-0 | 15-1 | 15-1 |
| 300.00 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-10 | 17-10 | 17-11 | 18-0 |
| 325.00 | 20-6 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 | 21-1 |
| 350.00 | 23-10 | 23-11 | 24-0 | 24-1 | 24-2 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 |
| 375.00 | 27-4 | 27-5 | 27-6 | 27-8 | 27-9 | 27-10 | 27-11 | 28-0 | 28-1 | 28-2 |
| 400.00 | 31-2 | 31-3 | 31-4 | 31-6 | 31-7 | 31-8 | 31-9 | 31-11 | 32-0 | 32-1 |
| 425.00 | 35-2 | 35-4 | 35-5 | 35-7 | 35-8 | 35-10 | 35-11 | 36-0 | 36-2 | 36-3 |
| 450.00 | 39-6 | 39-8 | 39-9 | 39-11 | 40-1 | 40-2 | 40-4 | 40-5 | 40-7 | 40-8 |
| 475.00 | 44-1 | 44-3 | 44-4 | 44-6 | 44-8 | 44-10 | 45-0 | 45-1 | 45-3 | 45-5 |
| 500.00 | 48-11 | 49-1 | 49-3 | 49-5 | 49-7 | 49-9 | 49-11 | 50-1 | 50-3 | 50-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS



OH823.46

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-5 |
| 275.00 | 14-10 | 14-10 | 14-11 | 14-11 | 14-11 | 15-0 | 15-0 | 15-0 | 15-1 | 15-1 |
| 300.00 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-11 | 17-11 | 18-0 |
| 325.00 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 |
| 350.00 | 24-1 | 24-1 | 24-2 | 24-2 | 24-3 | 24-4 | 24-4 | 24-5 | 24-5 | 24-6 |
| 375.00 | 27-8 | 27-8 | 27-9 | 27-10 | 27-10 | 27-11 | 28-0 | 28-0 | 28-1 | 28-2 |
| 400.00 | 31-6 | 31-7 | 31-7 | 31-8 | 31-9 | 31-10 | 31-10 | 31-11 | 32-0 | 32-1 |
| 425.00 | 35-7 | 35-8 | 35-9 | 35-10 | 35-10 | 35-11 | 36-0 | 36-1 | 36-2 | 36-3 |
| 450.00 | 39-11 | 40-0 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 | 40-6 | 40-7 | 40-8 |
| 475.00 | 44-6 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 |
| 500.00 | 49-5 | 49-6 | 49-7 | 49-9 | 49-10 | 49-11 | 50-0 | 50-1 | 50-3 | 50-4 |
| 525.00 | 54-7 | 54-8 | 54-9 | 54-11 | 55-0 | 55-1 | 55-3 | 55-4 | 55-5 | 55-7 |
| 550.00 | 59-11 | 60-1 | 60-2 | 60-4 | 60-5 | 60-7 | 60-8 | 60-10 | 60-11 | 61-1 |
| 575.00 | 65-7 | 65-9 | 65-11 | 66-0 | 66-2 | 66-4 | 66-5 | 66-7 | 66-8 | 66-10 |
| 600.00 | 71-7 | 71-8 | 71-10 | 72-0 | 72-2 | 72-4 | 72-5 | 72-7 | 72-9 | 72-11 |
| 625.00 | 77-9 | 77-11 | 78-1 | 78-3 | 78-5 | 78-7 | 78-9 | 78-11 | 79-1 | 79-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 12-3 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-6 | 12-6 | 12-6 |
| 275.00 | 14-10 | 14-11 | 14-11 | 15-0 | 15-0 | 15-0 | 15-1 | 15-1 | 15-1 | 15-2 |
| 300.00 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-11 | 17-11 | 18-0 | 18-0 | 18-1 |
| 325.00 | 20-10 | 20-10 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-2 | 21-2 |
| 350.00 | 24-2 | 24-2 | 24-3 | 24-4 | 24-4 | 24-5 | 24-5 | 24-6 | 24-7 | 24-7 |
| 375.00 | 27-9 | 27-10 | 27-10 | 27-11 | 28-0 | 28-0 | 28-1 | 28-2 | 28-3 | 28-3 |
| 400.00 | 31-7 | 31-8 | 31-9 | 31-10 | 31-10 | 31-11 | 32-0 | 32-1 | 32-2 | 32-2 |
| 425.00 | 35-9 | 35-9 | 35-10 | 35-11 | 36-0 | 36-1 | 36-2 | 36-3 | 36-4 | 36-5 |
| 450.00 | 40-1 | 40-2 | 40-3 | 40-4 | 40-5 | 40-6 | 40-7 | 40-8 | 40-9 | 40-10 |
| 475.00 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-4 | 45-6 | 45-7 |
| 500.00 | 49-7 | 49-9 | 49-10 | 49-11 | 50-0 | 50-2 | 50-3 | 50-4 | 50-5 | 50-7 |
| 525.00 | 54-9 | 54-11 | 55-0 | 55-1 | 55-3 | 55-4 | 55-5 | 55-7 | 55-8 | 55-10 |
| 550.00 | 60-2 | 60-4 | 60-5 | 60-7 | 60-8 | 60-10 | 60-11 | 61-1 | 61-2 | 61-4 |
| 575.00 | 65-10 | 66-0 | 66-2 | 66-4 | 66-5 | 66-7 | 66-9 | 66-10 | 67-0 | 67-2 |
| 600.00 | 71-10 | 72-0 | 72-2 | 72-4 | 72-5 | 72-7 | 72-9 | 72-11 | 73-1 | 73-3 |
| 625.00 | 78-1 | 78-3 | 78-5 | 78-7 | 78-9 | 78-11 | 79-1 | 79-3 | 79-5 | 79-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 8.09 | 1000 | 8.09 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 7.99 | 180 | 7.96 | 180 |
| 30 | 0 | 0 | 0 | 1.12 | 8.07 | 178 | 8.05 | 178 |
| 40 | 0 | 0 | 0 | 1.12 | 8.1 | 177 | 8.07 | 178 |
| 50 | 0 | 0 | 0 | 1.12 | 8.12 | 177 | 8.1 | 177 |
| 60 | 0 | 0 | 0 | 1.12 | 8.15 | 176 | 8.12 | 177 |
| 70 | 0 | 0 | 0 | 1.12 | 8.17 | 176 | 8.15 | 176 |
| 80 | 0 | 0 | 0 | 1.12 | 8.2 | 175 | 8.17 | 176 |
| 90 | 0 | 0 | 0 | 1.12 | 8.21 | 175 | 8.2 | 175 |
| 100 | 0 | 0 | 0 | 1.12 | 8.23 | 175 | 8.22 | 175 |
| 110 | 0 | 0 | 0 | 1.12 | 8.25 | 174 | 8.24 | 175 |
| 120 | 0 | 0 | 0 | 1.12 | 8.26 | 174 | 8.26 | 174 |
| 130 | 0 | 0 | 0 | 1.12 | 8.28 | 174 | 8.27 | 174 |
| 167 | 0 | 0 | 0 | 1.12 | 8.34 | 173 | 8.34 | 173 |
| 212 | 0 | 0 | 0 | 1.12 | 8.41 | 171 | 8.41 | 171 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 35.53 | 1000 | 35.53 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 35.44 | 178 | 35.41 | 178 |
| 30 | 0 | 0 | 0 | 1.12 | 35.52 | 178 | 35.5 | 178 |
| 40 | 0 | 0 | 0 | 1.12 | 35.54 | 178 | 35.52 | 178 |
| 50 | 0 | 0 | 0 | 1.12 | 35.57 | 178 | 35.55 | 178 |
| 60 | 0 | 0 | 0 | 1.12 | 35.59 | 177 | 35.57 | 178 |
| 70 | 0 | 0 | 0 | 1.12 | 35.62 | 177 | 35.6 | 177 |
| 80 | 0 | 0 | 0 | 1.12 | 35.64 | 177 | 35.62 | 177 |
| 90 | 0 | 0 | 0 | 1.12 | 35.66 | 177 | 35.65 | 177 |
| 100 | 0 | 0 | 0 | 1.12 | 35.68 | 177 | 35.67 | 177 |
| 110 | 0 | 0 | 0 | 1.12 | 35.69 | 177 | 35.69 | 177 |
| 120 | 0 | 0 | 0 | 1.12 | 35.71 | 177 | 35.7 | 177 |
| 130 | 0 | 0 | 0 | 1.12 | 35.73 | 177 | 35.72 | 177 |
| 167 | 0 | 0 | 0 | 1.12 | 35.79 | 177 | 35.78 | 177 |
| 212 | 0 | 0 | 0 | 1.12 | 35.86 | 176 | 35.86 | 176 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 4-6 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 |
| 100.00 | 8-0 | 8-1 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 |
| 125.00 | 12-7 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 |
| 150.00 | 18-3 | 18-4 | 18-4 | 18-5 | 18-6 | 18-6 | 18-7 | 18-8 | 18-9 | 18-9 |
| 175.00 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-8 |
| 200.00 | 32-11 | 33-0 | 33-2 | 33-3 | 33-4 | 33-5 | 33-7 | 33-8 | 33-9 | 33-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 |
| 100.00 | 8-1 | 8-1 | 8-1 | 8-1 | 8-2 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 |
| 125.00 | 12-8 | 12-8 | 12-9 | 12-9 | 12-10 | 12-10 | 12-10 | 12-11 | 12-11 | 12-11 |
| 150.00 | 18-4 | 18-4 | 18-5 | 18-6 | 18-6 | 18-7 | 18-8 | 18-8 | 18-9 | 18-9 |
| 175.00 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-7 | 25-8 | 25-9 |
| 200.00 | 33-0 | 33-1 | 33-3 | 33-4 | 33-5 | 33-7 | 33-8 | 33-9 | 33-10 | 33-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.49

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 |
| 125.00 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 |
| 150.00 | 19-7 | 19-8 | 19-8 | 19-8 | 19-8 | 19-8 | 19-8 | 19-9 | 19-9 | 19-9 |
| 175.00 | 26-11 | 26-11 | 26-11 | 27-0 | 27-0 | 27-0 | 27-0 | 27-1 | 27-1 | 27-1 |
| 200.00 | 35-6 | 35-6 | 35-6 | 35-7 | 35-7 | 35-7 | 35-7 | 35-8 | 35-8 | 35-8 |
| 225.00 | 45-4 | 45-5 | 45-5 | 45-5 | 45-6 | 45-6 | 45-7 | 45-7 | 45-7 | 45-8 |
| 250.00 | 56-8 | 56-8 | 56-9 | 56-9 | 56-10 | 56-10 | 56-11 | 56-11 | 57-0 | 57-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 8-7 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 | 8-8 |
| 125.00 | 13-6 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 | 13-7 |
| 150.00 | 19-8 | 19-8 | 19-8 | 19-8 | 19-8 | 19-8 | 19-9 | 19-9 | 19-9 | 19-9 |
| 175.00 | 26-11 | 26-11 | 27-0 | 27-0 | 27-0 | 27-0 | 27-0 | 27-1 | 27-1 | 27-1 |
| 200.00 | 35-6 | 35-6 | 35-7 | 35-7 | 35-7 | 35-7 | 35-8 | 35-8 | 35-8 | 35-8 |
| 225.00 | 45-5 | 45-5 | 45-5 | 45-6 | 45-6 | 45-7 | 45-7 | 45-7 | 45-7 | 45-8 |
| 250.00 | 56-8 | 56-9 | 56-9 | 56-10 | 56-10 | 56-11 | 56-11 | 56-11 | 57-0 | 57-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.50

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 5.31 | 1500 | 5.31 | 1500* |
| 0 | 0 | 0 | 0 | 1.120 | 5.10 | 277 | 5.04 | 281 |
| 30 | 0 | 0 | 0 | 1.120 | 5.22 | 271 | 5.17 | 274 |
| 40 | 0 | 0 | 0 | 1.120 | 5.26 | 269 | 5.21 | 272 |
| 50 | 0 | 0 | 0 | 1.120 | 5.30 | 267 | 5.24 | 270 |
| 60 | 0 | 0 | 0 | 1.120 | 5.33 | 265 | 5.28 | 268 |
| 70 | 0 | 0 | 0 | 1.120 | 5.37 | 264 | 5.32 | 266 |
| 80 | 0 | 0 | 0 | 1.120 | 5.41 | 262 | 5.36 | 264 |
| 90 | 0 | 0 | 0 | 1.120 | 5.44 | 261 | 5.39 | 263 |
| 100 | 0 | 0 | 0 | 1.120 | 5.46 | 259 | 5.43 | 261 |
| 110 | 0 | 0 | 0 | 1.120 | 5.48 | 258 | 5.47 | 259 |
| 120 | 0 | 0 | 0 | 1.120 | 5.51 | 257 | 5.50 | 257 |
| 130 | 0 | 0 | 0 | 1.120 | 5.53 | 256 | 5.53 | 256 |
| 167 | 0 | 0 | 0 | 1.120 | 5.62 | 252 | 5.62 | 252 |
| 212 | 0 | 0 | 0 | 1.120 | 5.73 | 248 | 5.72 | 248 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 22.03 | 1500 | 22.03 | 1500* |
| 0 | 0 | 0 | 0 | 1.120 | 21.83 | 269 | 21.77 | 270 |
| 30 | 0 | 0 | 0 | 1.120 | 21.94 | 268 | 21.89 | 268 |
| 40 | 0 | 0 | 0 | 1.120 | 21.98 | 267 | 21.93 | 268 |
| 50 | 0 | 0 | 0 | 1.120 | 22.02 | 267 | 21.97 | 267 |
| 60 | 0 | 0 | 0 | 1.120 | 22.06 | 266 | 22.00 | 267 |
| 70 | 0 | 0 | 0 | 1.120 | 22.10 | 266 | 22.04 | 266 |
| 80 | 0 | 0 | 0 | 1.120 | 22.13 | 265 | 22.08 | 266 |
| 90 | 0 | 0 | 0 | 1.120 | 22.16 | 265 | 22.12 | 266 |
| 100 | 0 | 0 | 0 | 1.120 | 22.19 | 265 | 22.15 | 265 |
| 110 | 0 | 0 | 0 | 1.120 | 22.21 | 265 | 22.19 | 265 |
| 120 | 0 | 0 | 0 | 1.120 | 22.24 | 264 | 22.23 | 264 |
| 130 | 0 | 0 | 0 | 1.120 | 22.26 | 264 | 22.26 | 264 |
| 167 | 0 | 0 | 0 | 1.120 | 22.36 | 263 | 22.35 | 263 |
| 212 | 0 | 0 | 0 | 1.120 | 22.47 | 262 | 22.46 | 262 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 53.30 | 1500 | 53.30 | 1500* |
| 0 | 0 | 0 | 0 | 1.120 | 53.09 | 267 | 53.03 | 268 |
| 30 | 0 | 0 | 0 | 1.120 | 53.21 | 267 | 53.15 | 267 |
| 40 | 0 | 0 | 0 | 1.120 | 53.24 | 267 | 53.19 | 267 |
| 50 | 0 | 0 | 0 | 1.120 | 53.28 | 267 | 53.23 | 267 |
| 60 | 0 | 0 | 0 | 1.120 | 53.32 | 266 | 53.27 | 267 |
| 70 | 0 | 0 | 0 | 1.120 | 53.36 | 266 | 53.30 | 267 |
| 80 | 0 | 0 | 0 | 1.120 | 53.40 | 266 | 53.34 | 266 |
| 90 | 0 | 0 | 0 | 1.120 | 53.42 | 266 | 53.38 | 266 |
| 100 | 0 | 0 | 0 | 1.120 | 53.45 | 266 | 53.42 | 266 |
| 110 | 0 | 0 | 0 | 1.120 | 53.47 | 266 | 53.45 | 266 |
| 120 | 0 | 0 | 0 | 1.120 | 53.50 | 266 | 53.49 | 266 |
| 130 | 0 | 0 | 0 | 1.120 | 53.52 | 266 | 53.52 | 266 |
| 167 | 0 | 0 | 0 | 1.120 | 53.62 | 265 | 53.61 | 265 |
| 212 | 0 | 0 | 0 | 1.120 | 53.73 | 265 | 53.73 | 265 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 109.85 | 1500 | 109.85 | 1500* |
| 0 | 0 | 0 | 0 | 1.120 | 109.65 | 267 | 109.59 | 267 |
| 30 | 0 | 0 | 0 | 1.120 | 109.76 | 267 | 109.71 | 267 |
| 40 | 0 | 0 | 0 | 1.120 | 109.80 | 267 | 109.75 | 267 |
| 50 | 0 | 0 | 0 | 1.120 | 109.83 | 267 | 109.78 | 267 |
| 60 | 0 | 0 | 0 | 1.120 | 109.87 | 267 | 109.82 | 267 |
| 70 | 0 | 0 | 0 | 1.120 | 109.91 | 266 | 109.85 | 267 |
| 80 | 0 | 0 | 0 | 1.120 | 109.94 | 266 | 109.89 | 266 |
| 90 | 0 | 0 | 0 | 1.120 | 109.97 | 266 | 109.93 | 266 |
| 100 | 0 | 0 | 0 | 1.120 | 109.99 | 266 | 109.96 | 266 |
| 110 | 0 | 0 | 0 | 1.120 | 110.02 | 266 | 110.00 | 266 |
| 120 | 0 | 0 | 0 | 1.120 | 110.04 | 266 | 110.04 | 266 |
| 130 | 0 | 0 | 0 | 1.120 | 110.07 | 266 | 110.06 | 266 |
| 167 | 0 | 0 | 0 | 1.120 | 110.16 | 266 | 110.15 | 266 |
| 212 | 0 | 0 | 0 | 1.120 | 110.27 | 266 | 110.26 | 266 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-11 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 |
| 100.00 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 |
| 125.00 | 8-0 | 8-1 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 |
| 150.00 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 |
| 175.00 | 15-10 | 15-11 | 16-1 | 16-2 | 16-4 | 16-5 | 16-6 | 16-8 | 16-9 | 16-11 |
| 200.00 | 20-9 | 20-11 | 21-1 | 21-2 | 21-4 | 21-6 | 21-8 | 21-10 | 22-0 | 22-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 |
| 100.00 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 |
| 125.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-7 |
| 150.00 | 11-8 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 | 12-5 |
| 175.00 | 16-0 | 16-1 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 |
| 200.00 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-9 | 21-11 | 22-0 | 22-1 | 22-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.53

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 |
| 125.00 | 8-5 | 8-6 | 8-6 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-7 |
| 150.00 | 12-3 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 |
| 175.00 | 16-8 | 16-8 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-11 | 16-11 |
| 200.00 | 21-10 | 21-11 | 21-11 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 | 22-2 | 22-2 |
| 225.00 | 27-9 | 27-10 | 27-10 | 27-11 | 28-0 | 28-0 | 28-1 | 28-1 | 28-2 | 28-2 |
| 250.00 | 34-5 | 34-6 | 34-7 | 34-7 | 34-8 | 34-9 | 34-10 | 34-10 | 34-11 | 35-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-6 | 5-6 | 5-6 | 5-6 | 5-6 |
| 125.00 | 8-6 | 8-6 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-7 | 8-7 |
| 150.00 | 12-3 | 12-3 | 12-3 | 12-4 | 12-4 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 |
| 175.00 | 16-9 | 16-9 | 16-9 | 16-10 | 16-10 | 16-10 | 16-11 | 16-11 | 16-11 | 16-11 |
| 200.00 | 21-11 | 21-11 | 22-0 | 22-0 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-3 |
| 225.00 | 27-10 | 27-11 | 27-11 | 28-0 | 28-0 | 28-1 | 28-2 | 28-2 | 28-2 | 28-3 |
| 250.00 | 34-6 | 34-7 | 34-8 | 34-9 | 34-9 | 34-10 | 34-11 | 34-11 | 35-0 | 35-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.54

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 12-11 | 12-11 | 12-11 | 12-11 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 |
| 175.00 | 17-7 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 |
| 200.00 | 23-1 | 23-1 | 23-2 | 23-2 | 23-2 | 23-2 | 23-2 | 23-3 | 23-3 | 23-3 |
| 225.00 | 29-5 | 29-5 | 29-5 | 29-5 | 29-6 | 29-6 | 29-6 | 29-6 | 29-6 | 29-7 |
| 250.00 | 36-5 | 36-6 | 36-6 | 36-6 | 36-7 | 36-7 | 36-7 | 36-8 | 36-8 | 36-8 |
| 275.00 | 44-4 | 44-5 | 44-5 | 44-5 | 44-6 | 44-6 | 44-7 | 44-7 | 44-7 | 44-8 |
| 300.00 | 53-1 | 53-2 | 53-2 | 53-3 | 53-3 | 53-4 | 53-4 | 53-5 | 53-5 | 53-5 |
| 325.00 | 62-9 | 62-10 | 62-10 | 62-11 | 62-11 | 63-0 | 63-0 | 63-1 | 63-1 | 63-2 |
| 350.00 | 73-4 | 73-4 | 73-5 | 73-6 | 73-6 | 73-7 | 73-7 | 73-8 | 73-9 | 73-9 |
| 375.00 | 84-10 | 84-10 | 84-11 | 85-0 | 85-1 | 85-1 | 85-2 | 85-3 | 85-4 | 85-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 12-11 | 12-11 | 12-11 | 12-11 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-0 |
| 175.00 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-9 |
| 200.00 | 23-2 | 23-2 | 23-2 | 23-2 | 23-2 | 23-3 | 23-3 | 23-3 | 23-3 | 23-3 |
| 225.00 | 29-5 | 29-5 | 29-5 | 29-6 | 29-6 | 29-6 | 29-6 | 29-7 | 29-7 | 29-7 |
| 250.00 | 36-6 | 36-6 | 36-6 | 36-7 | 36-7 | 36-7 | 36-8 | 36-8 | 36-8 | 36-8 |
| 275.00 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-7 | 44-7 | 44-7 | 44-8 | 44-8 |
| 300.00 | 53-2 | 53-2 | 53-3 | 53-3 | 53-4 | 53-4 | 53-5 | 53-5 | 53-5 | 53-6 |
| 325.00 | 62-10 | 62-10 | 62-11 | 62-11 | 63-0 | 63-1 | 63-1 | 63-1 | 63-2 | 63-2 |
| 350.00 | 73-5 | 73-5 | 73-6 | 73-6 | 73-7 | 73-8 | 73-8 | 73-9 | 73-9 | 73-10 |
| 375.00 | 84-11 | 84-11 | 85-0 | 85-1 | 85-2 | 85-2 | 85-3 | 85-4 | 85-4 | 85-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 25-9 | 25-9 | 25-9 | 25-9 | 25-9 | 25-9 | 25-10 | 25-10 | 25-10 | 25-10 |
| 225.00 | 32-9 | 32-9 | 32-9 | 32-10 | 32-10 | 32-10 | 32-10 | 32-10 | 32-10 | 32-10 |
| 250.00 | 40-9 | 40-9 | 40-9 | 40-9 | 40-9 | 40-9 | 40-9 | 40-10 | 40-10 | 40-10 |
| 275.00 | 49-7 | 49-7 | 49-8 | 49-8 | 49-8 | 49-8 | 49-8 | 49-8 | 49-9 | 49-9 |
| 300.00 | 59-6 | 59-6 | 59-6 | 59-6 | 59-7 | 59-7 | 59-7 | 59-7 | 59-7 | 59-8 |
| 325.00 | 70-4 | 70-5 | 70-5 | 70-5 | 70-6 | 70-6 | 70-6 | 70-6 | 70-7 | 70-7 |
| 350.00 | 82-4 | 82-4 | 82-5 | 82-5 | 82-5 | 82-6 | 82-6 | 82-6 | 82-7 | 82-7 |
| 375.00 | 95-5 | 95-5 | 95-6 | 95-6 | 95-7 | 95-7 | 95-7 | 95-8 | 95-8 | 95-8 |
| 400.00 | 109-8 | 109-9 | 109-9 | 109-9 | 109-10 | 109-10 | 109-11 | 109-11 | 110-0 | 110-0 |
| 425.00 | 125-2 | 125-2 | 125-3 | 125-3 | 125-4 | 125-4 | 125-5 | 125-5 | 125-6 | 125-6 |
| 450.00 | 141-11 | 141-11 | 142-0 | 142-1 | 142-1 | 142-2 | 142-2 | 142-3 | 142-4 | 142-4 |
| 475.00 | 160-0 | 160-1 | 160-2 | 160-2 | 160-3 | 160-4 | 160-4 | 160-5 | 160-6 | 160-6 |
| 500.00 | 179-7 | 179-7 | 179-8 | 179-9 | 179-10 | 179-10 | 179-11 | 180-0 | 180-1 | 180-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 25-9 | 25-9 | 25-9 | 25-9 | 25-9 | 25-10 | 25-10 | 25-10 | 25-10 | 25-10 |
| 225.00 | 32-9 | 32-10 | 32-10 | 32-10 | 32-10 | 32-10 | 32-10 | 32-10 | 32-10 | 32-10 |
| 250.00 | 40-9 | 40-9 | 40-9 | 40-9 | 40-9 | 40-9 | 40-10 | 40-10 | 40-10 | 40-10 |
| 275.00 | 49-7 | 49-8 | 49-8 | 49-8 | 49-8 | 49-8 | 49-9 | 49-9 | 49-9 | 49-9 |
| 300.00 | 59-6 | 59-6 | 59-6 | 59-7 | 59-7 | 59-7 | 59-7 | 59-8 | 59-8 | 59-8 |
| 325.00 | 70-5 | 70-5 | 70-5 | 70-6 | 70-6 | 70-6 | 70-6 | 70-7 | 70-7 | 70-7 |
| 350.00 | 82-5 | 82-5 | 82-5 | 82-5 | 82-6 | 82-6 | 82-6 | 82-7 | 82-7 | 82-7 |
| 375.00 | 95-6 | 95-6 | 95-6 | 95-7 | 95-7 | 95-7 | 95-8 | 95-8 | 95-8 | 95-9 |
| 400.00 | 109-9 | 109-9 | 109-10 | 109-10 | 109-10 | 109-11 | 109-11 | 110-0 | 110-0 | 110-0 |
| 425.00 | 125-2 | 125-3 | 125-3 | 125-4 | 125-4 | 125-5 | 125-6 | 125-6 | 125-6 | 125-7 |
| 450.00 | 142-0 | 142-0 | 142-1 | 142-1 | 142-2 | 142-3 | 142-3 | 142-4 | 142-4 | 142-4 |
| 475.00 | 160-1 | 160-2 | 160-2 | 160-3 | 160-4 | 160-5 | 160-5 | 160-6 | 160-6 | 160-7 |
| 500.00 | 179-8 | 179-8 | 179-9 | 179-10 | 179-11 | 180-0 | 180-0 | 180-1 | 180-1 | 180-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS



OH823.56

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 3.96 | 2000 | 3.96 | 2000* |
| 0 | 0 | 0 | 0 | 1.120 | 3.58 | 393 | 3.48 | 405 |
| 30 | 0 | 0 | 0 | 1.120 | 3.75 | 376 | 3.64 | 387 |
| 40 | 0 | 0 | 0 | 1.120 | 3.80 | 371 | 3.69 | 381 |
| 50 | 0 | 0 | 0 | 1.120 | 3.85 | 366 | 3.74 | 376 |
| 60 | 0 | 0 | 0 | 1.120 | 3.90 | 361 | 3.80 | 371 |
| 70 | 0 | 0 | 0 | 1.120 | 3.95 | 356 | 3.85 | 366 |
| 80 | 0 | 0 | 0 | 1.120 | 4.00 | 352 | 3.90 | 361 |
| 90 | 0 | 0 | 0 | 1.120 | 4.04 | 349 | 3.95 | 357 |
| 100 | 0 | 0 | 0 | 1.120 | 4.07 | 346 | 4.00 | 353 |
| 110 | 0 | 0 | 0 | 1.120 | 4.11 | 343 | 4.05 | 348 |
| 120 | 0 | 0 | 0 | 1.120 | 4.14 | 341 | 4.09 | 344 |
| 130 | 0 | 0 | 0 | 1.120 | 4.17 | 338 | 4.14 | 340 |
| 167 | 0 | 0 | 0 | 1.120 | 4.28 | 329 | 4.27 | 330 |
| 212 | 0 | 0 | 0 | 1.120 | 4.42 | 319 | 4.41 | 320 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 16.17 | 2000 | 16.17 | 2000* |
| 0 | 0 | 0 | 0 | 1.120 | 15.80 | 363 | 15.70 | 366 |
| 30 | 0 | 0 | 0 | 1.120 | 15.95 | 360 | 15.85 | 362 |
| 40 | 0 | 0 | 0 | 1.120 | 16.01 | 359 | 15.90 | 361 |
| 50 | 0 | 0 | 0 | 1.120 | 16.06 | 358 | 15.95 | 360 |
| 60 | 0 | 0 | 0 | 1.120 | 16.11 | 357 | 16.00 | 359 |
| 70 | 0 | 0 | 0 | 1.120 | 16.16 | 356 | 16.05 | 358 |
| 80 | 0 | 0 | 0 | 1.120 | 16.21 | 355 | 16.10 | 357 |
| 90 | 0 | 0 | 0 | 1.120 | 16.25 | 354 | 16.15 | 356 |
| 100 | 0 | 0 | 0 | 1.120 | 16.29 | 353 | 16.20 | 355 |
| 110 | 0 | 0 | 0 | 1.120 | 16.32 | 352 | 16.25 | 354 |
| 120 | 0 | 0 | 0 | 1.120 | 16.35 | 352 | 16.30 | 353 |
| 130 | 0 | 0 | 0 | 1.120 | 16.39 | 351 | 16.35 | 352 |
| 167 | 0 | 0 | 0 | 1.120 | 16.51 | 348 | 16.50 | 349 |
| 212 | 0 | 0 | 0 | 1.120 | 16.66 | 346 | 16.65 | 346 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 37.71 | 2000 | 37.71 | 2000* |
| 0 | 0 | 0 | 0 | 1.120 | 37.34 | 358 | 37.24 | 359 |
| 30 | 0 | 0 | 0 | 1.120 | 37.49 | 357 | 37.39 | 358 |
| 40 | 0 | 0 | 0 | 1.120 | 37.54 | 357 | 37.44 | 358 |
| 50 | 0 | 0 | 0 | 1.120 | 37.59 | 356 | 37.49 | 357 |
| 60 | 0 | 0 | 0 | 1.120 | 37.65 | 356 | 37.54 | 357 |
| 70 | 0 | 0 | 0 | 1.120 | 37.70 | 355 | 37.59 | 356 |
| 80 | 0 | 0 | 0 | 1.120 | 37.75 | 355 | 37.64 | 356 |
| 90 | 0 | 0 | 0 | 1.120 | 37.79 | 355 | 37.69 | 356 |
| 100 | 0 | 0 | 0 | 1.120 | 37.82 | 354 | 37.74 | 355 |
| 110 | 0 | 0 | 0 | 1.120 | 37.86 | 354 | 37.79 | 355 |
| 120 | 0 | 0 | 0 | 1.120 | 37.89 | 354 | 37.84 | 354 |
| 130 | 0 | 0 | 0 | 1.120 | 37.92 | 354 | 37.89 | 354 |
| 167 | 0 | 0 | 0 | 1.120 | 38.05 | 353 | 38.04 | 353 |
| 212 | 0 | 0 | 0 | 1.120 | 38.20 | 351 | 38.19 | 351 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 71.06 | 2000 | 71.06 | 2000* |
| 0 | 0 | 0 | 0 | 1.120 | 70.70 | 357 | 70.60 | 357 |
| 30 | 0 | 0 | 0 | 1.120 | 70.85 | 356 | 70.75 | 357 |
| 40 | 0 | 0 | 0 | 1.120 | 70.90 | 356 | 70.80 | 356 |
| 50 | 0 | 0 | 0 | 1.120 | 70.95 | 356 | 70.85 | 356 |
| 60 | 0 | 0 | 0 | 1.120 | 71.00 | 356 | 70.90 | 356 |
| 70 | 0 | 0 | 0 | 1.120 | 71.05 | 355 | 70.95 | 356 |
| 80 | 0 | 0 | 0 | 1.120 | 71.10 | 355 | 71.00 | 356 |
| 90 | 0 | 0 | 0 | 1.120 | 71.14 | 355 | 71.05 | 355 |
| 100 | 0 | 0 | 0 | 1.120 | 71.18 | 355 | 71.10 | 355 |
| 110 | 0 | 0 | 0 | 1.120 | 71.21 | 355 | 71.15 | 355 |
| 120 | 0 | 0 | 0 | 1.120 | 71.25 | 355 | 71.19 | 355 |
| 130 | 0 | 0 | 0 | 1.120 | 71.28 | 355 | 71.24 | 355 |
| 167 | 0 | 0 | 0 | 1.120 | 71.40 | 354 | 71.39 | 354 |
| 212 | 0 | 0 | 0 | 1.120 | 71.55 | 353 | 71.54 | 354 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 0 | 1.00G | 12 | 0 | 6.303 | 122.49 | 2000 | 122.49 | 2000* |
| 0 | 0 | 0 | 0 | 1.120 | 122.13 | 356 | 122.04 | 356 |
| 30 | 0 | 0 | 0 | 1.120 | 122.28 | 356 | 122.18 | 356 |
| 40 | 0 | 0 | 0 | 1.120 | 122.33 | 356 | 122.23 | 356 |
| 50 | 0 | 0 | 0 | 1.120 | 122.38 | 356 | 122.28 | 356 |
| 60 | 0 | 0 | 0 | 1.120 | 122.43 | 355 | 122.33 | 356 |
| 70 | 0 | 0 | 0 | 1.120 | 122.48 | 355 | 122.38 | 356 |
| 80 | 0 | 0 | 0 | 1.120 | 122.53 | 355 | 122.43 | 355 |
| 90 | 0 | 0 | 0 | 1.120 | 122.57 | 355 | 122.47 | 355 |
| 100 | 0 | 0 | 0 | 1.120 | 122.61 | 355 | 122.52 | 355 |
| 110 | 0 | 0 | 0 | 1.120 | 122.64 | 355 | 122.57 | 355 |
| 120 | 0 | 0 | 0 | 1.120 | 122.67 | 355 | 122.62 | 355 |
| 130 | 0 | 0 | 0 | 1.120 | 122.70 | 355 | 122.67 | 355 |
| 167 | 0 | 0 | 0 | 1.120 | 122.83 | 355 | 122.82 | 355 |
| 212 | 0 | 0 | 0 | 1.120 | 122.98 | 355 | 122.96 | 355 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 |
| 100.00 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 |
| 125.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 |
| 150.00 | 8-1 | 8-2 | 8-4 | 8-5 | 8-7 | 8-8 | 8-9 | 8-11 | 9-0 | 9-2 |
| 175.00 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-5 |
| 200.00 | 14-5 | 14-8 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-11 | 16-1 | 16-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-1 | 2-1 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-4 |
| 100.00 | 3-8 | 3-9 | 3-10 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-1 |
| 125.00 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 |
| 150.00 | 8-4 | 8-5 | 8-7 | 8-8 | 8-10 | 8-11 | 9-0 | 9-1 | 9-2 | 9-3 |
| 175.00 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-5 | 12-6 | 12-8 |
| 200.00 | 14-10 | 15-1 | 15-3 | 15-6 | 15-8 | 15-11 | 16-1 | 16-3 | 16-5 | 16-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS



OH823.60

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 |
| 125.00 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 |
| 150.00 | 8-10 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 |
| 175.00 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 |
| 200.00 | 15-10 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-2 | 16-3 |
| 225.00 | 20-0 | 20-1 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-7 | 20-7 |
| 250.00 | 24-10 | 24-11 | 25-0 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-11 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 |
| 125.00 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 |
| 150.00 | 8-11 | 8-11 | 9-0 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 |
| 175.00 | 12-2 | 12-2 | 12-3 | 12-3 | 12-4 | 12-4 | 12-5 | 12-5 | 12-5 | 12-6 |
| 200.00 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-3 | 16-3 | 16-4 |
| 225.00 | 20-2 | 20-3 | 20-4 | 20-4 | 20-5 | 20-6 | 20-7 | 20-7 | 20-8 | 20-8 |
| 250.00 | 25-0 | 25-1 | 25-2 | 25-3 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS



OH823.61

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-2 | 9-3 | 9-3 | 9-3 | 9-3 | 9-3 | 9-3 | 9-3 | 9-4 | 9-4 |
| 175.00 | 12-6 | 12-7 | 12-7 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-8 |
| 200.00 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-7 |
| 225.00 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 |
| 250.00 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-1 |
| 275.00 | 31-3 | 31-4 | 31-4 | 31-5 | 31-5 | 31-6 | 31-6 | 31-7 | 31-7 | 31-8 |
| 300.00 | 37-4 | 37-5 | 37-5 | 37-6 | 37-6 | 37-7 | 37-8 | 37-8 | 37-9 | 37-9 |
| 325.00 | 44-0 | 44-0 | 44-1 | 44-2 | 44-3 | 44-3 | 44-4 | 44-5 | 44-5 | 44-6 |
| 350.00 | 51-2 | 51-3 | 51-4 | 51-5 | 51-6 | 51-6 | 51-7 | 51-8 | 51-9 | 51-10 |
| 375.00 | 59-0 | 59-1 | 59-2 | 59-3 | 59-4 | 59-5 | 59-6 | 59-7 | 59-8 | 59-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-3 | 9-3 | 9-3 | 9-3 | 9-3 | 9-3 | 9-4 | 9-4 | 9-4 | 9-4 |
| 175.00 | 12-7 | 12-7 | 12-7 | 12-7 | 12-8 | 12-8 | 12-8 | 12-8 | 12-8 | 12-9 |
| 200.00 | 16-5 | 16-6 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-7 | 16-7 | 16-8 |
| 225.00 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-1 |
| 250.00 | 25-10 | 25-11 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-1 | 26-1 | 26-2 |
| 275.00 | 31-4 | 31-5 | 31-5 | 31-6 | 31-6 | 31-7 | 31-7 | 31-8 | 31-8 | 31-8 |
| 300.00 | 37-5 | 37-6 | 37-7 | 37-7 | 37-8 | 37-8 | 37-9 | 37-9 | 37-10 | 37-10 |
| 325.00 | 44-1 | 44-2 | 44-3 | 44-3 | 44-4 | 44-5 | 44-5 | 44-6 | 44-7 | 44-7 |
| 350.00 | 51-4 | 51-5 | 51-6 | 51-6 | 51-7 | 51-8 | 51-9 | 51-10 | 51-10 | 51-11 |
| 375.00 | 59-2 | 59-3 | 59-4 | 59-5 | 59-6 | 59-7 | 59-8 | 59-9 | 59-9 | 59-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 17-2 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 |
| 225.00 | 21-9 | 21-10 | 21-10 | 21-10 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 | 21-11 |
| 250.00 | 27-0 | 27-0 | 27-0 | 27-0 | 27-1 | 27-1 | 27-1 | 27-1 | 27-1 | 27-2 |
| 275.00 | 32-9 | 32-9 | 32-9 | 32-10 | 32-10 | 32-10 | 32-11 | 32-11 | 32-11 | 32-11 |
| 300.00 | 39-1 | 39-2 | 39-2 | 39-2 | 39-3 | 39-3 | 39-3 | 39-4 | 39-4 | 39-4 |
| 325.00 | 46-1 | 46-1 | 46-2 | 46-2 | 46-2 | 46-3 | 46-3 | 46-3 | 46-4 | 46-4 |
| 350.00 | 53-8 | 53-8 | 53-9 | 53-9 | 53-10 | 53-10 | 53-10 | 53-11 | 53-11 | 54-0 |
| 375.00 | 61-10 | 61-11 | 61-11 | 62-0 | 62-0 | 62-1 | 62-1 | 62-2 | 62-2 | 62-3 |
| 400.00 | 70-8 | 70-9 | 70-10 | 70-10 | 70-11 | 70-11 | 71-0 | 71-1 | 71-1 | 71-2 |
| 425.00 | 80-2 | 80-3 | 80-4 | 80-5 | 80-5 | 80-6 | 80-7 | 80-7 | 80-8 | 80-9 |
| 450.00 | 90-5 | 90-5 | 90-6 | 90-7 | 90-8 | 90-9 | 90-9 | 90-10 | 90-11 | 91-0 |
| 475.00 | 101-3 | 101-4 | 101-5 | 101-6 | 101-7 | 101-8 | 101-9 | 101-9 | 101-10 | 101-11 |
| 500.00 | 112-10 | 112-11 | 113-0 | 113-1 | 113-2 | 113-3 | 113-4 | 113-5 | 113-6 | 113-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 | 17-3 |
| 225.00 | 21-10 | 21-10 | 21-10 | 21-10 | 21-11 | 21-11 | 21-11 | 21-11 | 21-11 | 21-11 |
| 250.00 | 27-0 | 27-0 | 27-1 | 27-1 | 27-1 | 27-1 | 27-2 | 27-2 | 27-2 | 27-2 |
| 275.00 | 32-10 | 32-10 | 32-10 | 32-10 | 32-11 | 32-11 | 32-11 | 32-11 | 33-0 | 33-0 |
| 300.00 | 39-2 | 39-2 | 39-3 | 39-3 | 39-3 | 39-4 | 39-4 | 39-4 | 39-4 | 39-5 |
| 325.00 | 46-2 | 46-2 | 46-2 | 46-3 | 46-3 | 46-4 | 46-4 | 46-4 | 46-4 | 46-5 |
| 350.00 | 53-9 | 53-9 | 53-10 | 53-10 | 53-10 | 53-11 | 53-11 | 54-0 | 54-0 | 54-0 |
| 375.00 | 61-11 | 62-0 | 62-0 | 62-1 | 62-1 | 62-2 | 62-2 | 62-3 | 62-3 | 62-4 |
| 400.00 | 70-10 | 70-10 | 70-11 | 70-11 | 71-0 | 71-1 | 71-1 | 71-2 | 71-2 | 71-3 |
| 425.00 | 80-4 | 80-5 | 80-5 | 80-6 | 80-7 | 80-7 | 80-8 | 80-9 | 80-9 | 80-10 |
| 450.00 | 90-6 | 90-7 | 90-8 | 90-9 | 90-9 | 90-10 | 90-11 | 91-0 | 91-0 | 91-1 |
| 475.00 | 101-5 | 101-6 | 101-7 | 101-8 | 101-9 | 101-10 | 101-10 | 101-11 | 102-0 | 102-0 |
| 500.00 | 113-0 | 113-1 | 113-2 | 113-3 | 113-4 | 113-5 | 113-6 | 113-7 | 113-8 | 113-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS



OH823.63

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 29-0 | 29-0 | 29-0 | 29-0 | 29-0 | 29-1 | 29-1 | 29-1 | 29-1 | 29-1 |
| 275.00 | 35-3 | 35-3 | 35-3 | 35-3 | 35-3 | 35-3 | 35-4 | 35-4 | 35-4 | 35-4 |
| 300.00 | 42-1 | 42-1 | 42-1 | 42-1 | 42-2 | 42-2 | 42-2 | 42-2 | 42-2 | 42-3 |
| 325.00 | 49-7 | 49-7 | 49-8 | 49-8 | 49-8 | 49-8 | 49-8 | 49-9 | 49-9 | 49-9 |
| 350.00 | 57-9 | 57-10 | 57-10 | 57-10 | 57-10 | 57-11 | 57-11 | 57-11 | 58-0 | 58-0 |
| 375.00 | 66-8 | 66-8 | 66-9 | 66-9 | 66-9 | 66-10 | 66-10 | 66-10 | 66-10 | 66-11 |
| 400.00 | 76-3 | 76-3 | 76-4 | 76-4 | 76-5 | 76-5 | 76-5 | 76-6 | 76-6 | 76-6 |
| 425.00 | 86-7 | 86-7 | 86-8 | 86-8 | 86-9 | 86-9 | 86-9 | 86-10 | 86-10 | 86-11 |
| 450.00 | 97-8 | 97-8 | 97-9 | 97-9 | 97-10 | 97-10 | 97-11 | 97-11 | 97-11 | 98-0 |
| 475.00 | 109-6 | 109-6 | 109-7 | 109-7 | 109-8 | 109-8 | 109-9 | 109-10 | 109-10 | 109-11 |
| 500.00 | 122-2 | 122-2 | 122-3 | 122-3 | 122-4 | 122-5 | 122-5 | 122-6 | 122-6 | 122-7 |
| 525.00 | 135-7 | 135-8 | 135-8 | 135-9 | 135-10 | 135-10 | 135-11 | 136-0 | 136-0 | 136-1 |
| 550.00 | 149-11 | 150-0 | 150-0 | 150-1 | 150-2 | 150-3 | 150-3 | 150-4 | 150-5 | 150-6 |
| 575.00 | 165-1 | 165-2 | 165-3 | 165-4 | 165-5 | 165-5 | 165-6 | 165-7 | 165-8 | 165-9 |
| 600.00 | 181-3 | 181-4 | 181-5 | 181-5 | 181-6 | 181-7 | 181-8 | 181-9 | 181-10 | 181-11 |
| 625.00 | 198-3 | 198-4 | 198-5 | 198-6 | 198-7 | 198-9 | 198-10 | 198-11 | 199-0 | 199-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 29-0 | 29-0 | 29-1 | 29-1 | 29-1 | 29-1 | 29-1 | 29-1 | 29-1 | 29-1 |
| 275.00 | 35-3 | 35-3 | 35-3 | 35-3 | 35-4 | 35-4 | 35-4 | 35-4 | 35-4 | 35-4 |
| 300.00 | 42-1 | 42-1 | 42-2 | 42-2 | 42-2 | 42-2 | 42-2 | 42-3 | 42-3 | 42-3 |
| 325.00 | 49-8 | 49-8 | 49-8 | 49-8 | 49-9 | 49-9 | 49-9 | 49-9 | 49-9 | 49-9 |
| 350.00 | 57-10 | 57-10 | 57-11 | 57-11 | 57-11 | 57-11 | 58-0 | 58-0 | 58-0 | 58-0 |
| 375.00 | 66-9 | 66-9 | 66-9 | 66-10 | 66-10 | 66-10 | 66-11 | 66-11 | 66-11 | 66-11 |
| 400.00 | 76-4 | 76-4 | 76-5 | 76-5 | 76-5 | 76-6 | 76-6 | 76-6 | 76-7 | 76-7 |
| 425.00 | 86-8 | 86-8 | 86-9 | 86-9 | 86-9 | 86-10 | 86-10 | 86-11 | 86-11 | 86-11 |
| 450.00 | 97-9 | 97-9 | 97-10 | 97-10 | 97-11 | 97-11 | 98-0 | 98-0 | 98-0 | 98-1 |
| 475.00 | 109-7 | 109-7 | 109-8 | 109-9 | 109-9 | 109-10 | 109-10 | 109-11 | 109-11 | 109-11 |
| 500.00 | 122-3 | 122-3 | 122-4 | 122-5 | 122-5 | 122-6 | 122-6 | 122-7 | 122-7 | 122-8 |
| 525.00 | 135-9 | 135-9 | 135-10 | 135-11 | 135-11 | 136-0 | 136-1 | 136-1 | 136-2 | 136-2 |
| 550.00 | 150-0 | 150-1 | 150-2 | 150-3 | 150-3 | 150-4 | 150-5 | 150-6 | 150-6 | 150-7 |
| 575.00 | 165-3 | 165-4 | 165-5 | 165-6 | 165-6 | 165-7 | 165-8 | 165-9 | 165-9 | 165-10 |
| 600.00 | 181-5 | 181-6 | 181-6 | 181-7 | 181-8 | 181-9 | 181-10 | 181-11 | 182-0 | 182-0 |
| 625.00 | 198-6 | 198-7 | 198-8 | 198-9 | 198-10 | 198-11 | 199-0 | 199-1 | 199-1 | 199-2 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 2.74 | 972 | 2.67 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 2.37 | 591 | 2.26 | 621 |
| 30 | 0 | 0 | 0 | 1.12 | 2.45 | 573 | 2.34 | 600 |
| 40 | 0 | 0 | 0 | 1.12 | 2.53 | 556 | 2.41 | 582 |
| 50 | 0 | 0 | 0 | 1.12 | 2.6 | 540 | 2.49 | 565 |
| 60 | 0 | 0 | 0 | 1.12 | 2.67 | 526 | 2.56 | 549 |
| 70 | 0 | 0 | 0 | 1.12 | 2.74 | 512 | 2.63 | 534 |
| 80 | 0 | 0 | 0 | 1.12 | 2.81 | 500 | 2.7 | 520 |
| 90 | 0 | 0 | 0 | 1.12 | 2.88 | 488 | 2.77 | 508 |
| 100 | 0 | 0 | 0 | 1.12 | 2.95 | 477 | 2.83 | 496 |
| 110 | 0 | 0 | 0 | 1.12 | 3.01 | 467 | 2.9 | 485 |
| 120 | 0 | 0 | 0 | 1.12 | 3.07 | 457 | 2.96 | 474 |
| 130 | 0 | 0 | 0 | 1.12 | 3.12 | 451 | 3.03 | 464 |
| 167 | 0 | 0 | 0 | 1.12 | 3.26 | 431 | 3.25 | 433 |
| 212 | 0 | 0 | 0 | 1.12 | 3.43 | 410 | 3.41 | 412 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 10.85 | 992 | 10.76 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 10.46 | 541 | 10.35 | 547 |
| 30 | 0 | 0 | 0 | 1.12 | 10.54 | 537 | 10.42 | 543 |
| 40 | 0 | 0 | 0 | 1.12 | 10.62 | 533 | 10.5 | 539 |
| 50 | 0 | 0 | 0 | 1.12 | 10.69 | 530 | 10.57 | 536 |
| 60 | 0 | 0 | 0 | 1.12 | 10.77 | 526 | 10.65 | 532 |
| 70 | 0 | 0 | 0 | 1.12 | 10.84 | 523 | 10.72 | 528 |
| 80 | 0 | 0 | 0 | 1.12 | 10.92 | 519 | 10.79 | 525 |
| 90 | 0 | 0 | 0 | 1.12 | 10.99 | 516 | 10.87 | 521 |
| 100 | 0 | 0 | 0 | 1.12 | 11.06 | 512 | 10.94 | 518 |
| 110 | 0 | 0 | 0 | 1.12 | 11.14 | 509 | 11.01 | 515 |
| 120 | 0 | 0 | 0 | 1.12 | 11.21 | 506 | 11.08 | 512 |
| 130 | 0 | 0 | 0 | 1.12 | 11.28 | 503 | 11.15 | 508 |
| 167 | 0 | 0 | 0 | 1.12 | 11.46 | 495 | 11.41 | 497 |
| 212 | 0 | 0 | 0 | 1.12 | 11.66 | 487 | 11.65 | 487 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 24.67 | 997 | 24.58 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 24.28 | 533 | 24.17 | 535 |
| 30 | 0 | 0 | 0 | 1.12 | 24.36 | 531 | 24.24 | 533 |
| 40 | 0 | 0 | 0 | 1.12 | 24.43 | 529 | 24.32 | 532 |
| 50 | 0 | 0 | 0 | 1.12 | 24.51 | 528 | 24.39 | 530 |
| 60 | 0 | 0 | 0 | 1.12 | 24.59 | 526 | 24.47 | 529 |
| 70 | 0 | 0 | 0 | 1.12 | 24.66 | 525 | 24.54 | 527 |
| 80 | 0 | 0 | 0 | 1.12 | 24.74 | 523 | 24.61 | 526 |
| 90 | 0 | 0 | 0 | 1.12 | 24.81 | 522 | 24.69 | 524 |
| 100 | 0 | 0 | 0 | 1.12 | 24.89 | 520 | 24.76 | 523 |
| 110 | 0 | 0 | 0 | 1.12 | 24.96 | 519 | 24.83 | 521 |
| 120 | 0 | 0 | 0 | 1.12 | 25.03 | 517 | 24.91 | 520 |
| 130 | 0 | 0 | 0 | 1.12 | 25.11 | 516 | 24.98 | 518 |
| 167 | 0 | 0 | 0 | 1.12 | 25.3 | 512 | 25.25 | 513 |
| 212 | 0 | 0 | 0 | 1.12 | 25.52 | 508 | 25.51 | 508 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 44.77 | 998 | 44.69 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 44.39 | 530 | 44.27 | 531 |
| 30 | 0 | 0 | 0 | 1.12 | 44.46 | 529 | 44.35 | 530 |
| 40 | 0 | 0 | 0 | 1.12 | 44.54 | 528 | 44.42 | 529 |
| 50 | 0 | 0 | 0 | 1.12 | 44.62 | 527 | 44.5 | 528 |
| 60 | 0 | 0 | 0 | 1.12 | 44.69 | 526 | 44.57 | 528 |
| 70 | 0 | 0 | 0 | 1.12 | 44.77 | 526 | 44.64 | 527 |
| 80 | 0 | 0 | 0 | 1.12 | 44.84 | 525 | 44.72 | 526 |
| 90 | 0 | 0 | 0 | 1.12 | 44.92 | 524 | 44.79 | 525 |
| 100 | 0 | 0 | 0 | 1.12 | 44.99 | 523 | 44.87 | 524 |
| 110 | 0 | 0 | 0 | 1.12 | 45.07 | 522 | 44.94 | 524 |
| 120 | 0 | 0 | 0 | 1.12 | 45.14 | 522 | 45.01 | 523 |
| 130 | 0 | 0 | 0 | 1.12 | 45.22 | 521 | 45.09 | 522 |
| 167 | 0 | 0 | 0 | 1.12 | 45.42 | 519 | 45.36 | 519 |
| 212 | 0 | 0 | 0 | 1.12 | 45.64 | 516 | 45.63 | 517 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 72.13 | 999 | 72.05 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 71.75 | 528 | 71.64 | 529 |
| 30 | 0 | 0 | 0 | 1.12 | 71.83 | 528 | 71.71 | 528 |
| 40 | 0 | 0 | 0 | 1.12 | 71.9 | 527 | 71.78 | 528 |
| 50 | 0 | 0 | 0 | 1.12 | 71.98 | 527 | 71.86 | 528 |
| 60 | 0 | 0 | 0 | 1.12 | 72.05 | 526 | 71.93 | 527 |
| 70 | 0 | 0 | 0 | 1.12 | 72.13 | 526 | 72.01 | 527 |
| 80 | 0 | 0 | 0 | 1.12 | 72.2 | 525 | 72.08 | 526 |
| 90 | 0 | 0 | 0 | 1.12 | 72.28 | 525 | 72.15 | 526 |
| 100 | 0 | 0 | 0 | 1.12 | 72.35 | 525 | 72.23 | 525 |
| 110 | 0 | 0 | 0 | 1.12 | 72.43 | 524 | 72.3 | 525 |
| 120 | 0 | 0 | 0 | 1.12 | 72.5 | 524 | 72.37 | 524 |
| 130 | 0 | 0 | 0 | 1.12 | 72.58 | 523 | 72.45 | 524 |
| 167 | 0 | 0 | 0 | 1.12 | 72.78 | 522 | 72.72 | 522 |
| 212 | 0 | 0 | 0 | 1.12 | 73.01 | 521 | 72.99 | 521 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 |
| 100.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 |
| 125.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 |
| 150.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-6 |
| 175.00 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 |
| 200.00 | 9-1 | 9-4 | 9-8 | 10-0 | 10-3 | 10-7 | 10-10 | 11-1 | 11-4 | 11-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-7 | 1-8 | 1-8 |
| 100.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 |
| 125.00 | 3-9 | 3-10 | 3-11 | 4-1 | 4-2 | 4-3 | 4-5 | 4-6 | 4-7 | 4-8 |
| 150.00 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-9 |
| 175.00 | 7-3 | 7-6 | 7-9 | 8-0 | 8-2 | 8-5 | 8-8 | 8-10 | 9-1 | 9-3 |
| 200.00 | 9-6 | 9-10 | 10-2 | 10-5 | 10-9 | 11-0 | 11-3 | 11-7 | 11-10 | 12-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.68

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-7 | 2-7 | 2-7 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 |
| 125.00 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 |
| 150.00 | 5-10 | 5-10 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 |
| 175.00 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 |
| 200.00 | 10-4 | 10-5 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 |
| 225.00 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 |
| 250.00 | 16-2 | 16-4 | 16-5 | 16-7 | 16-8 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-7 | 2-8 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 |
| 125.00 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 |
| 150.00 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 |
| 175.00 | 8-0 | 8-1 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 |
| 200.00 | 10-6 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 225.00 | 13-3 | 13-4 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 |
| 250.00 | 16-5 | 16-6 | 16-7 | 16-9 | 16-10 | 17-0 | 17-1 | 17-3 | 17-4 | 17-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.69

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-0 | 6-0 | 6-0 | 6-1 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 |
| 175.00 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 |
| 200.00 | 10-8 | 10-9 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 | 11-0 |
| 225.00 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 |
| 250.00 | 16-9 | 16-9 | 16-10 | 16-11 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 |
| 275.00 | 20-3 | 20-4 | 20-5 | 20-6 | 20-6 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 |
| 300.00 | 24-2 | 24-3 | 24-4 | 24-5 | 24-6 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 |
| 325.00 | 28-5 | 28-6 | 28-7 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 |
| 350.00 | 33-0 | 33-1 | 33-2 | 33-4 | 33-5 | 33-6 | 33-7 | 33-9 | 33-10 | 33-11 |
| 375.00 | 37-11 | 38-1 | 38-2 | 38-4 | 38-5 | 38-6 | 38-8 | 38-9 | 38-11 | 39-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-0 | 6-1 | 6-1 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 |
| 175.00 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 |
| 200.00 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 |
| 225.00 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 14-0 |
| 250.00 | 16-10 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 |
| 275.00 | 20-4 | 20-5 | 20-6 | 20-7 | 20-8 | 20-8 | 20-9 | 20-10 | 20-11 | 20-11 |
| 300.00 | 24-3 | 24-4 | 24-5 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 |
| 325.00 | 28-6 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 |
| 350.00 | 33-2 | 33-3 | 33-4 | 33-6 | 33-7 | 33-8 | 33-9 | 33-11 | 34-0 | 34-1 |
| 375.00 | 38-1 | 38-3 | 38-4 | 38-6 | 38-7 | 38-9 | 38-10 | 39-0 | 39-1 | 39-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.70

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 |
| 225.00 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 |
| 250.00 | 17-2 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-5 |
| 275.00 | 20-9 | 20-9 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 |
| 300.00 | 24-9 | 24-9 | 24-10 | 24-10 | 24-11 | 24-11 | 25-0 | 25-0 | 25-1 | 25-1 |
| 325.00 | 29-1 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 | 29-4 | 29-5 | 29-5 | 29-6 |
| 350.00 | 33-9 | 33-10 | 33-11 | 33-11 | 34-0 | 34-1 | 34-1 | 34-2 | 34-3 | 34-3 |
| 375.00 | 38-10 | 38-11 | 39-0 | 39-0 | 39-1 | 39-2 | 39-3 | 39-4 | 39-4 | 39-5 |
| 400.00 | 44-3 | 44-4 | 44-5 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-10 | 44-11 |
| 425.00 | 50-1 | 50-2 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 | 50-10 |
| 450.00 | 56-3 | 56-4 | 56-6 | 56-7 | 56-8 | 56-9 | 56-10 | 56-11 | 57-0 | 57-1 |
| 475.00 | 62-10 | 62-11 | 63-1 | 63-2 | 63-3 | 63-4 | 63-6 | 63-7 | 63-8 | 63-10 |
| 500.00 | 69-10 | 69-11 | 70-0 | 70-2 | 70-3 | 70-5 | 70-6 | 70-8 | 70-9 | 70-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-0 | 11-0 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 | 11-2 |
| 225.00 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 |
| 250.00 | 17-2 | 17-2 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-5 | 17-5 |
| 275.00 | 20-10 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 |
| 300.00 | 24-10 | 24-10 | 24-11 | 24-11 | 25-0 | 25-0 | 25-1 | 25-1 | 25-2 | 25-2 |
| 325.00 | 29-2 | 29-2 | 29-3 | 29-4 | 29-4 | 29-5 | 29-5 | 29-6 | 29-6 | 29-7 |
| 350.00 | 33-10 | 33-11 | 34-0 | 34-0 | 34-1 | 34-2 | 34-2 | 34-3 | 34-4 | 34-4 |
| 375.00 | 38-11 | 39-0 | 39-1 | 39-2 | 39-2 | 39-3 | 39-4 | 39-5 | 39-6 | 39-6 |
| 400.00 | 44-5 | 44-6 | 44-6 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 |
| 425.00 | 50-3 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 | 50-10 | 50-11 | 51-0 |
| 450.00 | 56-5 | 56-6 | 56-7 | 56-8 | 56-10 | 56-11 | 57-0 | 57-1 | 57-2 | 57-3 |
| 475.00 | 63-0 | 63-1 | 63-3 | 63-4 | 63-5 | 63-7 | 63-8 | 63-9 | 63-10 | 64-0 |
| 500.00 | 70-0 | 70-1 | 70-3 | 70-4 | 70-6 | 70-7 | 70-8 | 70-10 | 70-11 | 71-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.71

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-7 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 | 17-9 |
| 275.00 | 21-3 | 21-4 | 21-4 | 21-4 | 21-4 | 21-5 | 21-5 | 21-5 | 21-5 | 21-6 |
| 300.00 | 25-4 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 | 25-6 | 25-7 | 25-7 | 25-7 |
| 325.00 | 29-10 | 29-10 | 29-11 | 29-11 | 29-11 | 30-0 | 30-0 | 30-0 | 30-1 | 30-1 |
| 350.00 | 34-8 | 34-8 | 34-9 | 34-9 | 34-9 | 34-10 | 34-10 | 34-11 | 34-11 | 34-11 |
| 375.00 | 39-10 | 39-11 | 39-11 | 40-0 | 40-0 | 40-1 | 40-1 | 40-1 | 40-2 | 40-2 |
| 400.00 | 45-5 | 45-6 | 45-6 | 45-7 | 45-7 | 45-8 | 45-8 | 45-9 | 45-9 | 45-10 |
| 425.00 | 51-5 | 51-5 | 51-6 | 51-7 | 51-7 | 51-8 | 51-8 | 51-9 | 51-10 | 51-10 |
| 450.00 | 57-9 | 57-10 | 57-10 | 57-11 | 58-0 | 58-0 | 58-1 | 58-2 | 58-3 | 58-3 |
| 475.00 | 64-6 | 64-7 | 64-7 | 64-8 | 64-9 | 64-10 | 64-11 | 64-11 | 65-0 | 65-1 |
| 500.00 | 71-8 | 71-9 | 71-9 | 71-10 | 71-11 | 72-0 | 72-1 | 72-2 | 72-3 | 72-4 |
| 525.00 | 79-2 | 79-3 | 79-4 | 79-5 | 79-6 | 79-7 | 79-8 | 79-9 | 79-10 | 79-11 |
| 550.00 | 87-2 | 87-3 | 87-4 | 87-5 | 87-6 | 87-7 | 87-8 | 87-9 | 87-11 | 88-0 |
| 575.00 | 95-6 | 95-8 | 95-9 | 95-10 | 95-11 | 96-0 | 96-2 | 96-3 | 96-4 | 96-5 |
| 600.00 | 104-4 | 104-5 | 104-7 | 104-8 | 104-9 | 104-11 | 105-0 | 105-1 | 105-3 | 105-4 |
| 625.00 | 113-7 | 113-8 | 113-10 | 113-11 | 114-1 | 114-2 | 114-3 | 114-5 | 114-6 | 114-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-7 | 17-7 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 |
| 275.00 | 21-4 | 21-4 | 21-4 | 21-5 | 21-5 | 21-5 | 21-5 | 21-6 | 21-6 | 21-6 |
| 300.00 | 25-5 | 25-5 | 25-5 | 25-6 | 25-6 | 25-6 | 25-7 | 25-7 | 25-7 | 25-8 |
| 325.00 | 29-10 | 29-11 | 29-11 | 29-11 | 30-0 | 30-0 | 30-1 | 30-1 | 30-1 | 30-2 |
| 350.00 | 34-8 | 34-9 | 34-9 | 34-10 | 34-10 | 34-10 | 34-11 | 34-11 | 35-0 | 35-0 |
| 375.00 | 39-11 | 39-11 | 40-0 | 40-0 | 40-1 | 40-1 | 40-2 | 40-2 | 40-3 | 40-3 |
| 400.00 | 45-6 | 45-6 | 45-7 | 45-8 | 45-8 | 45-9 | 45-9 | 45-10 | 45-10 | 45-11 |
| 425.00 | 51-6 | 51-6 | 51-7 | 51-8 | 51-8 | 51-9 | 51-9 | 51-10 | 51-11 | 51-11 |
| 450.00 | 57-10 | 57-11 | 57-11 | 58-0 | 58-1 | 58-2 | 58-2 | 58-3 | 58-4 | 58-4 |
| 475.00 | 64-7 | 64-8 | 64-9 | 64-10 | 64-10 | 64-11 | 65-0 | 65-1 | 65-2 | 65-2 |
| 500.00 | 71-9 | 71-10 | 71-11 | 72-0 | 72-1 | 72-2 | 72-2 | 72-3 | 72-4 | 72-5 |
| 525.00 | 79-4 | 79-5 | 79-6 | 79-7 | 79-8 | 79-9 | 79-10 | 79-11 | 80-0 | 80-1 |
| 550.00 | 87-3 | 87-5 | 87-6 | 87-7 | 87-8 | 87-9 | 87-10 | 87-11 | 88-0 | 88-1 |
| 575.00 | 95-8 | 95-9 | 95-11 | 96-0 | 96-1 | 96-2 | 96-4 | 96-5 | 96-6 | 96-7 |
| 600.00 | 104-6 | 104-7 | 104-9 | 104-10 | 104-11 | 105-1 | 105-2 | 105-3 | 105-5 | 105-6 |
| 625.00 | 113-9 | 113-11 | 114-0 | 114-1 | 114-3 | 114-4 | 114-6 | 114-7 | 114-9 | 114-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 1.89 | 1410 | 1.78 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 1.32 | 1063 | 1.15 | 1213 |
| 30 | 0 | 0 | 0 | 1.12 | 1.42 | 989 | 1.24 | 1130 |
| 40 | 0 | 0 | 0 | 1.12 | 1.52 | 924 | 1.33 | 1055 |
| 50 | 0 | 0 | 0 | 1.12 | 1.61 | 868 | 1.42 | 988 |
| 60 | 0 | 0 | 0 | 1.12 | 1.71 | 819 | 1.51 | 929 |
| 70 | 0 | 0 | 0 | 1.12 | 1.8 | 777 | 1.6 | 876 |
| 80 | 0 | 0 | 0 | 1.12 | 1.9 | 739 | 1.69 | 830 |
| 90 | 0 | 0 | 0 | 1.12 | 1.99 | 706 | 1.78 | 789 |
| 100 | 0 | 0 | 0 | 1.12 | 2.07 | 677 | 1.86 | 752 |
| 110 | 0 | 0 | 0 | 1.12 | 2.16 | 650 | 1.95 | 719 |
| 120 | 0 | 0 | 0 | 1.12 | 2.24 | 626 | 2.03 | 689 |
| 130 | 0 | 0 | 0 | 1.12 | 2.32 | 605 | 2.12 | 662 |
| 167 | 0 | 0 | 0 | 1.12 | 2.5 | 560 | 2.41 | 583 |
| 212 | 0 | 0 | 0 | 1.12 | 2.7 | 520 | 2.68 | 525 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 7.27 | 1471 | 7.13 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 6.6 | 853 | 6.37 | 883 |
| 30 | 0 | 0 | 0 | 1.12 | 6.71 | 838 | 6.48 | 867 |
| 40 | 0 | 0 | 0 | 1.12 | 6.82 | 824 | 6.59 | 853 |
| 50 | 0 | 0 | 0 | 1.12 | 6.94 | 811 | 6.7 | 839 |
| 60 | 0 | 0 | 0 | 1.12 | 7.05 | 799 | 6.81 | 826 |
| 70 | 0 | 0 | 0 | 1.12 | 7.16 | 787 | 6.92 | 813 |
| 80 | 0 | 0 | 0 | 1.12 | 7.26 | 775 | 7.03 | 801 |
| 90 | 0 | 0 | 0 | 1.12 | 7.37 | 764 | 7.13 | 789 |
| 100 | 0 | 0 | 0 | 1.12 | 7.47 | 754 | 7.23 | 778 |
| 110 | 0 | 0 | 0 | 1.12 | 7.58 | 743 | 7.34 | 767 |
| 120 | 0 | 0 | 0 | 1.12 | 7.68 | 734 | 7.44 | 757 |
| 130 | 0 | 0 | 0 | 1.12 | 7.78 | 724 | 7.54 | 747 |
| 167 | 0 | 0 | 0 | 1.12 | 8.12 | 694 | 7.9 | 713 |
| 212 | 0 | 0 | 0 | 1.12 | 8.39 | 672 | 8.33 | 677 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 16.29 | 1487 | 16.14 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 15.6 | 816 | 15.37 | 828 |
| 30 | 0 | 0 | 0 | 1.12 | 15.72 | 810 | 15.49 | 822 |
| 40 | 0 | 0 | 0 | 1.12 | 15.83 | 805 | 15.6 | 817 |
| 50 | 0 | 0 | 0 | 1.12 | 15.94 | 799 | 15.71 | 811 |
| 60 | 0 | 0 | 0 | 1.12 | 16.06 | 794 | 15.82 | 805 |
| 70 | 0 | 0 | 0 | 1.12 | 16.17 | 788 | 15.93 | 800 |
| 80 | 0 | 0 | 0 | 1.12 | 16.28 | 783 | 16.04 | 795 |
| 90 | 0 | 0 | 0 | 1.12 | 16.39 | 778 | 16.14 | 789 |
| 100 | 0 | 0 | 0 | 1.12 | 16.5 | 773 | 16.25 | 784 |
| 110 | 0 | 0 | 0 | 1.12 | 16.61 | 768 | 16.36 | 779 |
| 120 | 0 | 0 | 0 | 1.12 | 16.72 | 763 | 16.47 | 774 |
| 130 | 0 | 0 | 0 | 1.12 | 16.82 | 758 | 16.57 | 770 |
| 167 | 0 | 0 | 0 | 1.12 | 17.22 | 741 | 16.96 | 752 |
| 212 | 0 | 0 | 0 | 1.12 | 17.54 | 728 | 17.43 | 733 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 29.11 | 1493 | 28.96 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 28.42 | 804 | 28.19 | 810 |
| 30 | 0 | 0 | 0 | 1.12 | 28.54 | 801 | 28.3 | 807 |
| 40 | 0 | 0 | 0 | 1.12 | 28.65 | 798 | 28.42 | 804 |
| 50 | 0 | 0 | 0 | 1.12 | 28.76 | 795 | 28.53 | 801 |
| 60 | 0 | 0 | 0 | 1.12 | 28.88 | 792 | 28.64 | 798 |
| 70 | 0 | 0 | 0 | 1.12 | 28.99 | 789 | 28.75 | 795 |
| 80 | 0 | 0 | 0 | 1.12 | 29.1 | 786 | 28.86 | 792 |
| 90 | 0 | 0 | 0 | 1.12 | 29.21 | 783 | 28.97 | 790 |
| 100 | 0 | 0 | 0 | 1.12 | 29.33 | 780 | 29.08 | 787 |
| 110 | 0 | 0 | 0 | 1.12 | 29.44 | 777 | 29.19 | 784 |
| 120 | 0 | 0 | 0 | 1.12 | 29.55 | 775 | 29.29 | 781 |
| 130 | 0 | 0 | 0 | 1.12 | 29.66 | 772 | 29.4 | 778 |
| 167 | 0 | 0 | 0 | 1.12 | 30.06 | 762 | 29.8 | 768 |
| 212 | 0 | 0 | 0 | 1.12 | 30.42 | 753 | 30.28 | 757 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 45.97 | 1495 | 45.82 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 45.28 | 798 | 45.05 | 802 |
| 30 | 0 | 0 | 0 | 1.12 | 45.39 | 797 | 45.16 | 800 |
| 40 | 0 | 0 | 0 | 1.12 | 45.5 | 795 | 45.27 | 799 |
| 50 | 0 | 0 | 0 | 1.12 | 45.62 | 793 | 45.38 | 797 |
| 60 | 0 | 0 | 0 | 1.12 | 45.73 | 791 | 45.49 | 795 |
| 70 | 0 | 0 | 0 | 1.12 | 45.84 | 789 | 45.6 | 793 |
| 80 | 0 | 0 | 0 | 1.12 | 45.96 | 787 | 45.71 | 791 |
| 90 | 0 | 0 | 0 | 1.12 | 46.07 | 786 | 45.82 | 790 |
| 100 | 0 | 0 | 0 | 1.12 | 46.18 | 784 | 45.93 | 788 |
| 110 | 0 | 0 | 0 | 1.12 | 46.29 | 782 | 46.04 | 786 |
| 120 | 0 | 0 | 0 | 1.12 | 46.41 | 780 | 46.15 | 784 |
| 130 | 0 | 0 | 0 | 1.12 | 46.52 | 779 | 46.26 | 783 |
| 167 | 0 | 0 | 0 | 1.12 | 46.93 | 772 | 46.66 | 776 |
| 212 | 0 | 0 | 0 | 1.12 | 47.3 | 766 | 47.15 | 769 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.75

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 |
| 100.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-10 | 1-11 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-1 |
| 150.00 | 2-7 | 2-9 | 3-0 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-5 |
| 175.00 | 3-6 | 3-10 | 4-1 | 4-4 | 4-7 | 4-11 | 5-2 | 5-5 | 5-9 | 6-0 |
| 200.00 | 4-7 | 5-0 | 5-4 | 5-8 | 6-0 | 6-5 | 6-9 | 7-1 | 7-6 | 7-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 | 1-1 | 1-2 | 1-3 |
| 100.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 125.00 | 2-1 | 2-3 | 2-4 | 2-6 | 2-8 | 2-10 | 3-0 | 3-1 | 3-3 | 3-4 |
| 150.00 | 3-0 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 | 4-6 | 4-8 | 4-10 |
| 175.00 | 4-0 | 4-4 | 4-8 | 4-11 | 5-3 | 5-6 | 5-10 | 6-1 | 6-4 | 6-7 |
| 200.00 | 5-3 | 5-8 | 6-1 | 6-6 | 6-10 | 7-3 | 7-7 | 7-11 | 8-4 | 8-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.76

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 |
| 125.00 | 2-6 | 2-6 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 |
| 150.00 | 3-7 | 3-8 | 3-8 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 |
| 175.00 | 4-11 | 5-0 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-5 | 5-6 | 5-7 |
| 200.00 | 6-4 | 6-6 | 6-7 | 6-8 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 |
| 225.00 | 8-1 | 8-2 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 |
| 250.00 | 10-0 | 10-2 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 |
| 125.00 | 2-7 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 |
| 150.00 | 3-9 | 3-9 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 |
| 175.00 | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 200.00 | 6-7 | 6-9 | 6-10 | 6-11 | 7-1 | 7-2 | 7-3 | 7-4 | 7-6 | 7-7 |
| 225.00 | 8-4 | 8-6 | 8-8 | 8-9 | 8-11 | 9-1 | 9-2 | 9-4 | 9-6 | 9-7 |
| 250.00 | 10-4 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.77

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 |
| 175.00 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 |
| 200.00 | 6-10 | 6-10 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 |
| 225.00 | 8-8 | 8-8 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 |
| 250.00 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-4 |
| 275.00 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 |
| 300.00 | 15-4 | 15-6 | 15-7 | 15-8 | 15-10 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 |
| 325.00 | 18-1 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 | 18-10 | 19-0 | 19-1 | 19-3 |
| 350.00 | 20-11 | 21-1 | 21-3 | 21-5 | 21-7 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 |
| 375.00 | 24-1 | 24-3 | 24-5 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-5 | 25-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-11 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 |
| 175.00 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 |
| 200.00 | 6-11 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 |
| 225.00 | 8-9 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 |
| 250.00 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-4 | 11-5 | 11-6 |
| 275.00 | 13-1 | 13-2 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 |
| 300.00 | 15-7 | 15-9 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 | 16-5 | 16-6 | 16-7 |
| 325.00 | 18-4 | 18-5 | 18-7 | 18-9 | 18-10 | 19-0 | 19-1 | 19-3 | 19-5 | 19-6 |
| 350.00 | 21-3 | 21-5 | 21-7 | 21-9 | 21-11 | 22-0 | 22-2 | 22-4 | 22-6 | 22-8 |
| 375.00 | 24-5 | 24-7 | 24-9 | 25-0 | 25-2 | 25-4 | 25-6 | 25-8 | 25-10 | 26-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-0 | 7-0 | 7-1 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 |
| 225.00 | 8-11 | 8-11 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 |
| 250.00 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 |
| 275.00 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 |
| 300.00 | 15-10 | 15-11 | 15-11 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 |
| 325.00 | 18-7 | 18-8 | 18-9 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 |
| 350.00 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 |
| 375.00 | 24-9 | 24-10 | 24-11 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-8 |
| 400.00 | 28-2 | 28-4 | 28-5 | 28-6 | 28-8 | 28-9 | 28-10 | 29-0 | 29-1 | 29-2 |
| 425.00 | 31-10 | 32-0 | 32-1 | 32-3 | 32-4 | 32-6 | 32-7 | 32-9 | 32-10 | 33-0 |
| 450.00 | 35-9 | 35-11 | 36-0 | 36-2 | 36-4 | 36-5 | 36-7 | 36-9 | 36-10 | 37-0 |
| 475.00 | 39-10 | 40-0 | 40-2 | 40-4 | 40-6 | 40-8 | 40-10 | 41-0 | 41-1 | 41-3 |
| 500.00 | 44-3 | 44-5 | 44-7 | 44-9 | 44-11 | 45-1 | 45-3 | 45-5 | 45-7 | 45-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 |
| 225.00 | 8-11 | 9-0 | 9-0 | 9-1 | 9-1 | 9-2 | 9-2 | 9-2 | 9-3 | 9-3 |
| 250.00 | 11-1 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 |
| 275.00 | 13-5 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 |
| 300.00 | 15-11 | 16-0 | 16-1 | 16-2 | 16-2 | 16-3 | 16-4 | 16-5 | 16-5 | 16-6 |
| 325.00 | 18-9 | 18-10 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 |
| 350.00 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 |
| 375.00 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 |
| 400.00 | 28-5 | 28-6 | 28-8 | 28-9 | 28-11 | 29-0 | 29-1 | 29-3 | 29-4 | 29-5 |
| 425.00 | 32-1 | 32-3 | 32-4 | 32-6 | 32-8 | 32-9 | 32-11 | 33-0 | 33-2 | 33-3 |
| 450.00 | 36-0 | 36-2 | 36-4 | 36-6 | 36-7 | 36-9 | 36-11 | 37-1 | 37-2 | 37-4 |
| 475.00 | 40-2 | 40-4 | 40-6 | 40-8 | 40-10 | 41-0 | 41-2 | 41-4 | 41-6 | 41-8 |
| 500.00 | 44-7 | 44-9 | 44-11 | 45-1 | 45-4 | 45-6 | 45-8 | 45-10 | 46-0 | 46-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 |
| 275.00 | 13-6 | 13-7 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 |
| 300.00 | 16-1 | 16-2 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 |
| 325.00 | 18-11 | 19-0 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 | 19-4 |
| 350.00 | 21-11 | 22-0 | 22-1 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 | 22-5 |
| 375.00 | 25-3 | 25-3 | 25-4 | 25-5 | 25-6 | 25-6 | 25-7 | 25-8 | 25-9 | 25-9 |
| 400.00 | 28-9 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 |
| 425.00 | 32-5 | 32-6 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 | 33-2 |
| 450.00 | 36-5 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-2 | 37-3 |
| 475.00 | 40-7 | 40-9 | 40-10 | 40-11 | 41-0 | 41-1 | 41-3 | 41-4 | 41-5 | 41-6 |
| 500.00 | 45-1 | 45-2 | 45-3 | 45-5 | 45-6 | 45-7 | 45-9 | 45-10 | 45-11 | 46-0 |
| 525.00 | 49-9 | 49-10 | 50-0 | 50-1 | 50-3 | 50-4 | 50-5 | 50-7 | 50-8 | 50-10 |
| 550.00 | 54-8 | 54-9 | 54-11 | 55-0 | 55-2 | 55-4 | 55-5 | 55-7 | 55-8 | 55-10 |
| 575.00 | 59-9 | 59-11 | 60-1 | 60-3 | 60-4 | 60-6 | 60-8 | 60-10 | 61-0 | 61-1 |
| 600.00 | 65-2 | 65-4 | 65-6 | 65-8 | 65-10 | 66-0 | 66-2 | 66-4 | 66-6 | 66-7 |
| 625.00 | 70-10 | 71-0 | 71-2 | 71-4 | 71-6 | 71-8 | 71-10 | 72-0 | 72-3 | 72-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-6 |
| 275.00 | 13-7 | 13-8 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-11 |
| 300.00 | 16-2 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 |
| 325.00 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-4 | 19-4 | 19-5 | 19-5 |
| 350.00 | 22-1 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 | 22-5 | 22-6 | 22-7 |
| 375.00 | 25-4 | 25-5 | 25-6 | 25-6 | 25-7 | 25-8 | 25-9 | 25-9 | 25-10 | 25-11 |
| 400.00 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-4 | 29-5 | 29-6 |
| 425.00 | 32-7 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 |
| 450.00 | 36-7 | 36-8 | 36-9 | 36-10 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 |
| 475.00 | 40-10 | 40-11 | 41-0 | 41-2 | 41-3 | 41-4 | 41-5 | 41-6 | 41-8 | 41-9 |
| 500.00 | 45-3 | 45-5 | 45-6 | 45-7 | 45-9 | 45-10 | 45-11 | 46-1 | 46-2 | 46-4 |
| 525.00 | 50-0 | 50-1 | 50-3 | 50-4 | 50-6 | 50-7 | 50-9 | 50-10 | 51-0 | 51-1 |
| 550.00 | 54-11 | 55-1 | 55-2 | 55-4 | 55-6 | 55-7 | 55-9 | 55-10 | 56-0 | 56-2 |
| 575.00 | 60-1 | 60-3 | 60-5 | 60-6 | 60-8 | 60-10 | 61-0 | 61-2 | 61-4 | 61-5 |
| 600.00 | 65-6 | 65-8 | 65-10 | 66-0 | 66-2 | 66-4 | 66-6 | 66-8 | 66-10 | 67-0 |
| 625.00 | 71-2 | 71-4 | 71-6 | 71-9 | 71-11 | 72-1 | 72-3 | 72-5 | 72-7 | 72-9 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 1.47 | 1805 | 1.33 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 0.84 | 1665 | 0.72 | 1957 |
| 30 | 0 | 0 | 0 | 1.12 | 0.92 | 1518 | 0.77 | 1827 |
| 40 | 0 | 0 | 0 | 1.12 | 1.01 | 1385 | 0.82 | 1701 |
| 50 | 0 | 0 | 0 | 1.12 | 1.1 | 1268 | 0.89 | 1580 |
| 60 | 0 | 0 | 0 | 1.12 | 1.2 | 1166 | 0.96 | 1465 |
| 70 | 0 | 0 | 0 | 1.12 | 1.3 | 1077 | 1.03 | 1358 |
| 80 | 0 | 0 | 0 | 1.12 | 1.4 | 1001 | 1.11 | 1260 |
| 90 | 0 | 0 | 0 | 1.12 | 1.5 | 934 | 1.2 | 1171 |
| 100 | 0 | 0 | 0 | 1.12 | 1.6 | 877 | 1.28 | 1090 |
| 110 | 0 | 0 | 0 | 1.12 | 1.69 | 827 | 1.38 | 1019 |
| 120 | 0 | 0 | 0 | 1.12 | 1.79 | 784 | 1.47 | 956 |
| 130 | 0 | 0 | 0 | 1.12 | 1.88 | 745 | 1.56 | 899 |
| 167 | 0 | 0 | 0 | 1.12 | 2.09 | 670 | 1.89 | 742 |
| 212 | 0 | 0 | 0 | 1.12 | 2.3 | 610 | 2.26 | 621 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 5.53 | 1930 | 5.33 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 4.55 | 1232 | 4.2 | 1337 |
| 30 | 0 | 0 | 0 | 1.12 | 4.7 | 1194 | 4.33 | 1294 |
| 40 | 0 | 0 | 0 | 1.12 | 4.84 | 1159 | 4.47 | 1255 |
| 50 | 0 | 0 | 0 | 1.12 | 4.98 | 1126 | 4.61 | 1218 |
| 60 | 0 | 0 | 0 | 1.12 | 5.12 | 1096 | 4.74 | 1183 |
| 70 | 0 | 0 | 0 | 1.12 | 5.26 | 1067 | 4.88 | 1151 |
| 80 | 0 | 0 | 0 | 1.12 | 5.4 | 1041 | 5.01 | 1121 |
| 90 | 0 | 0 | 0 | 1.12 | 5.53 | 1016 | 5.14 | 1092 |
| 100 | 0 | 0 | 0 | 1.12 | 5.66 | 993 | 5.27 | 1066 |
| 110 | 0 | 0 | 0 | 1.12 | 5.79 | 971 | 5.4 | 1041 |
| 120 | 0 | 0 | 0 | 1.12 | 5.91 | 950 | 5.52 | 1017 |
| 130 | 0 | 0 | 0 | 1.12 | 6.04 | 931 | 5.65 | 995 |
| 167 | 0 | 0 | 0 | 1.12 | 6.48 | 867 | 6.1 | 922 |
| 212 | 0 | 0 | 0 | 1.12 | 6.84 | 823 | 6.61 | 850 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 12.25 | 1966 | 12.05 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 11.21 | 1130 | 10.83 | 1170 |
| 30 | 0 | 0 | 0 | 1.12 | 11.36 | 1115 | 10.97 | 1154 |
| 40 | 0 | 0 | 0 | 1.12 | 11.52 | 1101 | 11.12 | 1139 |
| 50 | 0 | 0 | 0 | 1.12 | 11.66 | 1087 | 11.27 | 1125 |
| 60 | 0 | 0 | 0 | 1.12 | 11.81 | 1073 | 11.41 | 1111 |
| 70 | 0 | 0 | 0 | 1.12 | 11.96 | 1060 | 11.55 | 1097 |
| 80 | 0 | 0 | 0 | 1.12 | 12.1 | 1048 | 11.69 | 1084 |
| 90 | 0 | 0 | 0 | 1.12 | 12.24 | 1036 | 11.83 | 1071 |
| 100 | 0 | 0 | 0 | 1.12 | 12.39 | 1024 | 11.97 | 1059 |
| 110 | 0 | 0 | 0 | 1.12 | 12.53 | 1013 | 12.11 | 1047 |
| 120 | 0 | 0 | 0 | 1.12 | 12.66 | 1002 | 12.25 | 1035 |
| 130 | 0 | 0 | 0 | 1.12 | 12.8 | 991 | 12.39 | 1024 |
| 167 | 0 | 0 | 0 | 1.12 | 13.3 | 955 | 12.88 | 985 |
| 212 | 0 | 0 | 0 | 1.12 | 13.81 | 920 | 13.47 | 943 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 21.74 | 1981 | 21.52 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 20.68 | 1095 | 20.29 | 1116 |
| 30 | 0 | 0 | 0 | 1.12 | 20.83 | 1087 | 20.43 | 1108 |
| 40 | 0 | 0 | 0 | 1.12 | 20.98 | 1079 | 20.58 | 1100 |
| 50 | 0 | 0 | 0 | 1.12 | 21.13 | 1072 | 20.73 | 1092 |
| 60 | 0 | 0 | 0 | 1.12 | 21.28 | 1065 | 20.87 | 1085 |
| 70 | 0 | 0 | 0 | 1.12 | 21.43 | 1057 | 21.02 | 1077 |
| 80 | 0 | 0 | 0 | 1.12 | 21.58 | 1050 | 21.16 | 1070 |
| 90 | 0 | 0 | 0 | 1.12 | 21.72 | 1043 | 21.31 | 1063 |
| 100 | 0 | 0 | 0 | 1.12 | 21.87 | 1037 | 21.45 | 1056 |
| 110 | 0 | 0 | 0 | 1.12 | 22.01 | 1030 | 21.59 | 1049 |
| 120 | 0 | 0 | 0 | 1.12 | 22.16 | 1023 | 21.73 | 1043 |
| 130 | 0 | 0 | 0 | 1.12 | 22.3 | 1017 | 21.88 | 1036 |
| 167 | 0 | 0 | 0 | 1.12 | 22.83 | 994 | 22.39 | 1013 |
| 212 | 0 | 0 | 0 | 1.12 | 23.42 | 969 | 23.01 | 986 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. °F | Ice in | Wind Psf | K lb/ft | Weight lb/ft | Sag ft | Tension lb | Sag ft | Tension lb |
| 50 | 0 | 10.8 | 0 | 2.128 | 34.07 | 1988 | 33.86 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 33 | 1079 | 32.61 | 1092 |
| 30 | 0 | 0 | 0 | 1.12 | 33.15 | 1074 | 32.76 | 1087 |
| 40 | 0 | 0 | 0 | 1.12 | 33.31 | 1070 | 32.91 | 1082 |
| 50 | 0 | 0 | 0 | 1.12 | 33.46 | 1065 | 33.05 | 1077 |
| 60 | 0 | 0 | 0 | 1.12 | 33.61 | 1060 | 33.2 | 1073 |
| 70 | 0 | 0 | 0 | 1.12 | 33.76 | 1056 | 33.35 | 1068 |
| 80 | 0 | 0 | 0 | 1.12 | 33.91 | 1051 | 33.49 | 1064 |
| 90 | 0 | 0 | 0 | 1.12 | 34.06 | 1047 | 33.64 | 1059 |
| 100 | 0 | 0 | 0 | 1.12 | 34.2 | 1042 | 33.78 | 1055 |
| 110 | 0 | 0 | 0 | 1.12 | 34.35 | 1038 | 33.93 | 1051 |
| 120 | 0 | 0 | 0 | 1.12 | 34.5 | 1034 | 34.07 | 1046 |
| 130 | 0 | 0 | 0 | 1.12 | 34.64 | 1030 | 34.21 | 1042 |
| 167 | 0 | 0 | 0 | 1.12 | 35.18 | 1015 | 34.74 | 1027 |
| 212 | 0 | 0 | 0 | 1.12 | 35.82 | 997 | 35.38 | 1009 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-5 | 0-5 | 0-6 | 0-6 | 0-6 | 0-7 | 0-8 | 0-8 | 0-9 | 0-9 |
| 100.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-5 |
| 125.00 | 1-1 | 1-2 | 1-3 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 |
| 150.00 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 |
| 175.00 | 2-2 | 2-4 | 2-6 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-3 |
| 200.00 | 2-10 | 3-1 | 3-4 | 3-7 | 3-10 | 4-2 | 4-5 | 4-9 | 5-2 | 5-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 |
| 100.00 | 0-10 | 0-11 | 1-0 | 1-1 | 1-2 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 |
| 125.00 | 1-4 | 1-5 | 1-7 | 1-9 | 1-11 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 |
| 150.00 | 1-11 | 2-1 | 2-3 | 2-6 | 2-8 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 |
| 175.00 | 2-7 | 2-10 | 3-1 | 3-5 | 3-8 | 4-0 | 4-3 | 4-7 | 4-11 | 5-2 |
| 200.00 | 3-4 | 3-8 | 4-1 | 4-5 | 4-10 | 5-2 | 5-7 | 6-0 | 6-5 | 6-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.84

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-1 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 |
| 125.00 | 1-8 | 1-8 | 1-9 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 |
| 150.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 |
| 175.00 | 3-3 | 3-4 | 3-5 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-2 |
| 200.00 | 4-2 | 4-4 | 4-6 | 4-7 | 4-9 | 4-11 | 5-0 | 5-2 | 5-3 | 5-5 |
| 225.00 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 |
| 250.00 | 6-7 | 6-9 | 7-0 | 7-2 | 7-5 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 |
| 125.00 | 1-9 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-3 | 2-3 |
| 150.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 175.00 | 3-6 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-5 |
| 200.00 | 4-7 | 4-8 | 4-10 | 5-0 | 5-1 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 |
| 225.00 | 5-9 | 5-11 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 |
| 250.00 | 7-1 | 7-4 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-8 | 8-10 | 9-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.85

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 |
| 175.00 | 3-8 | 3-9 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 |
| 200.00 | 4-10 | 4-10 | 4-11 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-5 |
| 225.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 |
| 250.00 | 7-6 | 7-7 | 7-9 | 7-10 | 7-11 | 8-0 | 8-1 | 8-3 | 8-4 | 8-5 |
| 275.00 | 9-1 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 |
| 300.00 | 10-10 | 11-0 | 11-1 | 11-3 | 11-5 | 11-7 | 11-8 | 11-10 | 12-0 | 12-1 |
| 325.00 | 12-9 | 12-11 | 13-1 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 |
| 350.00 | 14-9 | 14-11 | 15-2 | 15-4 | 15-6 | 15-9 | 15-11 | 16-1 | 16-4 | 16-6 |
| 375.00 | 16-11 | 17-2 | 17-5 | 17-7 | 17-10 | 18-1 | 18-4 | 18-6 | 18-9 | 18-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 2-10 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 |
| 175.00 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 |
| 200.00 | 5-0 | 5-1 | 5-1 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 |
| 225.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-0 |
| 250.00 | 7-9 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 275.00 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 |
| 300.00 | 11-3 | 11-4 | 11-6 | 11-8 | 11-10 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 |
| 325.00 | 13-2 | 13-4 | 13-6 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 |
| 350.00 | 15-3 | 15-6 | 15-8 | 15-11 | 16-1 | 16-3 | 16-6 | 16-8 | 16-10 | 17-1 |
| 375.00 | 17-6 | 17-9 | 18-0 | 18-3 | 18-6 | 18-8 | 18-11 | 19-2 | 19-5 | 19-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 |
| 225.00 | 6-5 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 |
| 250.00 | 7-11 | 8-0 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 |
| 275.00 | 9-7 | 9-8 | 9-9 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 |
| 300.00 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 |
| 325.00 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 |
| 350.00 | 15-6 | 15-8 | 15-9 | 15-10 | 16-0 | 16-1 | 16-2 | 16-4 | 16-5 | 16-6 |
| 375.00 | 17-10 | 17-11 | 18-1 | 18-3 | 18-4 | 18-6 | 18-7 | 18-9 | 18-10 | 19-0 |
| 400.00 | 20-3 | 20-5 | 20-7 | 20-9 | 20-10 | 21-0 | 21-2 | 21-4 | 21-5 | 21-7 |
| 425.00 | 22-11 | 23-1 | 23-3 | 23-5 | 23-7 | 23-9 | 23-11 | 24-1 | 24-3 | 24-5 |
| 450.00 | 25-8 | 25-11 | 26-1 | 26-3 | 26-5 | 26-8 | 26-10 | 27-0 | 27-2 | 27-4 |
| 475.00 | 28-8 | 28-10 | 29-1 | 29-3 | 29-6 | 29-8 | 29-11 | 30-1 | 30-4 | 30-6 |
| 500.00 | 31-9 | 32-0 | 32-3 | 32-5 | 32-8 | 32-11 | 33-2 | 33-4 | 33-7 | 33-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 | 5-6 |
| 225.00 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 |
| 250.00 | 8-1 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 |
| 275.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 |
| 300.00 | 11-7 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 |
| 325.00 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 |
| 350.00 | 15-10 | 15-11 | 16-1 | 16-2 | 16-3 | 16-5 | 16-6 | 16-7 | 16-9 | 16-10 |
| 375.00 | 18-2 | 18-4 | 18-5 | 18-7 | 18-8 | 18-10 | 18-11 | 19-1 | 19-3 | 19-4 |
| 400.00 | 20-8 | 20-10 | 21-0 | 21-2 | 21-3 | 21-5 | 21-7 | 21-9 | 21-10 | 22-0 |
| 425.00 | 23-4 | 23-6 | 23-8 | 23-10 | 24-0 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 |
| 450.00 | 26-2 | 26-5 | 26-7 | 26-9 | 27-0 | 27-2 | 27-4 | 27-6 | 27-8 | 27-11 |
| 475.00 | 29-2 | 29-5 | 29-8 | 29-10 | 30-1 | 30-3 | 30-6 | 30-8 | 30-11 | 31-1 |
| 500.00 | 32-4 | 32-7 | 32-10 | 33-1 | 33-4 | 33-7 | 33-9 | 34-0 | 34-3 | 34-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
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Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 |
| 275.00 | 9-10 | 9-10 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 |
| 300.00 | 11-8 | 11-9 | 11-10 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-1 | 12-2 |
| 325.00 | 13-9 | 13-10 | 13-10 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 |
| 350.00 | 15-11 | 16-0 | 16-1 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 |
| 375.00 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-9 | 18-10 | 18-11 | 19-0 |
| 400.00 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-4 | 21-5 | 21-6 | 21-7 | 21-8 |
| 425.00 | 23-6 | 23-8 | 23-9 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-4 | 24-6 |
| 450.00 | 26-5 | 26-6 | 26-8 | 26-9 | 26-10 | 27-0 | 27-1 | 27-3 | 27-4 | 27-5 |
| 475.00 | 29-5 | 29-7 | 29-8 | 29-10 | 29-11 | 30-1 | 30-3 | 30-4 | 30-6 | 30-7 |
| 500.00 | 32-7 | 32-9 | 32-11 | 33-1 | 33-2 | 33-4 | 33-6 | 33-8 | 33-9 | 33-11 |
| 525.00 | 36-0 | 36-2 | 36-4 | 36-6 | 36-7 | 36-9 | 36-11 | 37-1 | 37-3 | 37-5 |
| 550.00 | 39-6 | 39-8 | 39-10 | 40-1 | 40-3 | 40-5 | 40-7 | 40-9 | 40-11 | 41-1 |
| 575.00 | 43-2 | 43-5 | 43-7 | 43-10 | 44-0 | 44-2 | 44-5 | 44-7 | 44-9 | 44-11 |
| 600.00 | 47-1 | 47-3 | 47-6 | 47-9 | 47-11 | 48-2 | 48-4 | 48-7 | 48-9 | 49-0 |
| 625.00 | 51-1 | 51-4 | 51-7 | 51-10 | 52-1 | 52-3 | 52-6 | 52-9 | 53-0 | 53-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 |
| 275.00 | 9-11 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 |
| 300.00 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 |
| 325.00 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 |
| 350.00 | 16-1 | 16-2 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 |
| 375.00 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 |
| 400.00 | 21-1 | 21-2 | 21-3 | 21-4 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 |
| 425.00 | 23-10 | 23-11 | 24-0 | 24-2 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 | 24-9 |
| 450.00 | 26-8 | 26-10 | 26-11 | 27-1 | 27-2 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 |
| 475.00 | 29-9 | 29-11 | 30-0 | 30-2 | 30-4 | 30-5 | 30-7 | 30-9 | 30-10 | 31-0 |
| 500.00 | 33-0 | 33-2 | 33-4 | 33-5 | 33-7 | 33-9 | 33-11 | 34-1 | 34-2 | 34-4 |
| 525.00 | 36-5 | 36-7 | 36-9 | 36-11 | 37-1 | 37-3 | 37-5 | 37-7 | 37-9 | 37-11 |
| 550.00 | 40-0 | 40-2 | 40-4 | 40-6 | 40-9 | 40-11 | 41-1 | 41-3 | 41-5 | 41-7 |
| 575.00 | 43-9 | 43-11 | 44-2 | 44-4 | 44-6 | 44-9 | 44-11 | 45-2 | 45-4 | 45-6 |
| 600.00 | 47-8 | 47-10 | 48-1 | 48-4 | 48-6 | 48-9 | 48-11 | 49-2 | 49-5 | 49-7 |
| 625.00 | 51-9 | 52-0 | 52-3 | 52-5 | 52-8 | 52-11 | 53-2 | 53-5 | 53-8 | 53-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 2.73 | 977 | 2.67 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 2.43 | 576 | 2.34 | 601 |
| 30 | 0 | 0 | 0 | 1.12 | 2.66 | 528 | 2.56 | 549 |
| 40 | 0 | 0 | 0 | 1.12 | 2.73 | 515 | 2.63 | 534 |
| 50 | 0 | 0 | 0 | 1.12 | 2.8 | 502 | 2.7 | 521 |
| 60 | 0 | 0 | 0 | 1.12 | 2.87 | 490 | 2.76 | 508 |
| 70 | 0 | 0 | 0 | 1.12 | 2.93 | 479 | 2.83 | 496 |
| 80 | 0 | 0 | 0 | 1.12 | 3 | 469 | 2.9 | 485 |
| 90 | 0 | 0 | 0 | 1.12 | 3.06 | 459 | 2.96 | 475 |
| 100 | 0 | 0 | 0 | 1.12 | 3.13 | 450 | 3.02 | 465 |
| 110 | 0 | 0 | 0 | 1.12 | 3.19 | 441 | 3.09 | 455 |
| 120 | 0 | 0 | 0 | 1.12 | 3.25 | 433 | 3.15 | 447 |
| 130 | 0 | 0 | 0 | 1.12 | 3.28 | 428 | 3.21 | 438 |
| 167 | 0 | 0 | 0 | 1.12 | 3.42 | 411 | 3.41 | 413 |
| 212 | 0 | 0 | 0 | 1.12 | 3.58 | 393 | 3.57 | 394 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 10.84 | 993 | 10.76 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 10.53 | 538 | 10.42 | 543 |
| 30 | 0 | 0 | 0 | 1.12 | 10.76 | 527 | 10.65 | 532 |
| 40 | 0 | 0 | 0 | 1.12 | 10.83 | 523 | 10.72 | 528 |
| 50 | 0 | 0 | 0 | 1.12 | 10.91 | 520 | 10.79 | 525 |
| 60 | 0 | 0 | 0 | 1.12 | 10.98 | 516 | 10.86 | 522 |
| 70 | 0 | 0 | 0 | 1.12 | 11.05 | 513 | 10.94 | 518 |
| 80 | 0 | 0 | 0 | 1.12 | 11.13 | 510 | 11.01 | 515 |
| 90 | 0 | 0 | 0 | 1.12 | 11.2 | 506 | 11.08 | 512 |
| 100 | 0 | 0 | 0 | 1.12 | 11.27 | 503 | 11.15 | 508 |
| 110 | 0 | 0 | 0 | 1.12 | 11.34 | 500 | 11.22 | 505 |
| 120 | 0 | 0 | 0 | 1.12 | 11.41 | 497 | 11.29 | 502 |
| 130 | 0 | 0 | 0 | 1.12 | 11.48 | 494 | 11.36 | 499 |
| 167 | 0 | 0 | 0 | 1.12 | 11.66 | 487 | 11.62 | 489 |
| 212 | 0 | 0 | 0 | 1.12 | 11.86 | 479 | 11.84 | 479 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 24.66 | 997 | 24.58 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 24.35 | 531 | 24.24 | 533 |
| 30 | 0 | 0 | 0 | 1.12 | 24.58 | 526 | 24.46 | 529 |
| 40 | 0 | 0 | 0 | 1.12 | 24.65 | 525 | 24.54 | 527 |
| 50 | 0 | 0 | 0 | 1.12 | 24.73 | 523 | 24.61 | 526 |
| 60 | 0 | 0 | 0 | 1.12 | 24.8 | 522 | 24.68 | 524 |
| 70 | 0 | 0 | 0 | 1.12 | 24.88 | 520 | 24.76 | 523 |
| 80 | 0 | 0 | 0 | 1.12 | 24.95 | 519 | 24.83 | 521 |
| 90 | 0 | 0 | 0 | 1.12 | 25.03 | 518 | 24.9 | 520 |
| 100 | 0 | 0 | 0 | 1.12 | 25.1 | 516 | 24.98 | 518 |
| 110 | 0 | 0 | 0 | 1.12 | 25.17 | 515 | 25.05 | 517 |
| 120 | 0 | 0 | 0 | 1.12 | 25.25 | 513 | 25.12 | 516 |
| 130 | 0 | 0 | 0 | 1.12 | 25.32 | 512 | 25.19 | 514 |
| 167 | 0 | 0 | 0 | 1.12 | 25.51 | 508 | 25.46 | 509 |
| 212 | 0 | 0 | 0 | 1.12 | 25.73 | 504 | 25.71 | 504 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 44.76 | 998 | 44.69 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 44.46 | 529 | 44.35 | 530 |
| 30 | 0 | 0 | 0 | 1.12 | 44.68 | 526 | 44.57 | 528 |
| 40 | 0 | 0 | 0 | 1.12 | 44.76 | 526 | 44.64 | 527 |
| 50 | 0 | 0 | 0 | 1.12 | 44.83 | 525 | 44.72 | 526 |
| 60 | 0 | 0 | 0 | 1.12 | 44.91 | 524 | 44.79 | 525 |
| 70 | 0 | 0 | 0 | 1.12 | 44.98 | 523 | 44.86 | 525 |
| 80 | 0 | 0 | 0 | 1.12 | 45.06 | 522 | 44.94 | 524 |
| 90 | 0 | 0 | 0 | 1.12 | 45.13 | 522 | 45.01 | 523 |
| 100 | 0 | 0 | 0 | 1.12 | 45.21 | 521 | 45.08 | 522 |
| 110 | 0 | 0 | 0 | 1.12 | 45.28 | 520 | 45.16 | 521 |
| 120 | 0 | 0 | 0 | 1.12 | 45.36 | 519 | 45.23 | 521 |
| 130 | 0 | 0 | 0 | 1.12 | 45.43 | 519 | 45.3 | 520 |
| 167 | 0 | 0 | 0 | 1.12 | 45.63 | 517 | 45.58 | 517 |
| 212 | 0 | 0 | 0 | 1.12 | 45.85 | 514 | 45.84 | 514 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 72.12 | 999 | 72.05 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 71.82 | 528 | 71.71 | 528 |
| 30 | 0 | 0 | 0 | 1.12 | 72.04 | 526 | 71.93 | 527 |
| 40 | 0 | 0 | 0 | 1.12 | 72.12 | 526 | 72 | 527 |
| 50 | 0 | 0 | 0 | 1.12 | 72.19 | 525 | 72.08 | 526 |
| 60 | 0 | 0 | 0 | 1.12 | 72.27 | 525 | 72.15 | 526 |
| 70 | 0 | 0 | 0 | 1.12 | 72.35 | 525 | 72.22 | 525 |
| 80 | 0 | 0 | 0 | 1.12 | 72.42 | 524 | 72.3 | 525 |
| 90 | 0 | 0 | 0 | 1.12 | 72.5 | 524 | 72.37 | 524 |
| 100 | 0 | 0 | 0 | 1.12 | 72.57 | 523 | 72.45 | 524 |
| 110 | 0 | 0 | 0 | 1.12 | 72.65 | 523 | 72.52 | 524 |
| 120 | 0 | 0 | 0 | 1.12 | 72.72 | 522 | 72.59 | 523 |
| 130 | 0 | 0 | 0 | 1.12 | 72.8 | 522 | 72.67 | 523 |
| 167 | 0 | 0 | 0 | 1.12 | 73 | 521 | 72.94 | 521 |
| 212 | 0 | 0 | 0 | 1.12 | 73.22 | 519 | 73.21 | 519 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 |
| 100.00 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 |
| 125.00 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 |
| 150.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-6 | 6-8 | 6-10 | 6-11 |
| 175.00 | 7-7 | 7-10 | 8-1 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-3 | 9-6 |
| 200.00 | 10-0 | 10-3 | 10-6 | 10-10 | 11-1 | 11-4 | 11-7 | 11-11 | 12-2 | 12-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 |
| 100.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-2 |
| 125.00 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 | 4-9 | 4-11 | 5-0 |
| 150.00 | 5-10 | 6-0 | 6-2 | 6-4 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-2 |
| 175.00 | 7-11 | 8-2 | 8-4 | 8-7 | 8-10 | 9-0 | 9-2 | 9-5 | 9-7 | 9-9 |
| 200.00 | 10-4 | 10-8 | 10-11 | 11-3 | 11-6 | 11-9 | 12-0 | 12-4 | 12-7 | 12-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.92

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-8 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-10 |
| 125.00 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 150.00 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 |
| 175.00 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 |
| 200.00 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 |
| 225.00 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-2 | 14-3 |
| 250.00 | 16-7 | 16-8 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 | 17-6 | 17-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 |
| 125.00 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 |
| 150.00 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 |
| 175.00 | 8-2 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 |
| 200.00 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-2 | 11-3 | 11-4 |
| 225.00 | 13-6 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 |
| 250.00 | 16-9 | 16-10 | 17-0 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 | 17-8 | 17-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.93

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-1 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 |
| 175.00 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-5 | 8-6 |
| 200.00 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 10-11 | 11-0 | 11-0 | 11-1 | 11-1 |
| 225.00 | 13-8 | 13-8 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 14-0 | 14-0 |
| 250.00 | 16-11 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 | 17-3 | 17-4 | 17-4 |
| 275.00 | 20-6 | 20-6 | 20-7 | 20-8 | 20-9 | 20-9 | 20-10 | 20-11 | 20-11 | 21-0 |
| 300.00 | 24-5 | 24-6 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 | 25-0 | 25-1 |
| 325.00 | 28-8 | 28-9 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 |
| 350.00 | 33-4 | 33-5 | 33-6 | 33-7 | 33-8 | 33-10 | 33-11 | 34-0 | 34-1 | 34-2 |
| 375.00 | 38-4 | 38-5 | 38-6 | 38-8 | 38-9 | 38-11 | 39-0 | 39-1 | 39-3 | 39-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 |
| 175.00 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 |
| 200.00 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 |
| 225.00 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 |
| 250.00 | 17-0 | 17-0 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 | 17-4 | 17-5 | 17-5 |
| 275.00 | 20-7 | 20-7 | 20-8 | 20-9 | 20-10 | 20-10 | 20-11 | 21-0 | 21-1 | 21-1 |
| 300.00 | 24-6 | 24-7 | 24-8 | 24-9 | 24-10 | 24-11 | 24-11 | 25-0 | 25-1 | 25-2 |
| 325.00 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 |
| 350.00 | 33-5 | 33-7 | 33-8 | 33-9 | 33-10 | 34-0 | 34-1 | 34-2 | 34-3 | 34-5 |
| 375.00 | 38-6 | 38-7 | 38-9 | 38-10 | 38-11 | 39-1 | 39-2 | 39-4 | 39-5 | 39-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.94

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 |
| 225.00 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-2 |
| 250.00 | 17-3 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-6 |
| 275.00 | 20-10 | 20-11 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-2 | 21-2 |
| 300.00 | 24-10 | 24-11 | 24-11 | 25-0 | 25-0 | 25-1 | 25-1 | 25-2 | 25-2 | 25-3 |
| 325.00 | 29-3 | 29-3 | 29-4 | 29-4 | 29-5 | 29-5 | 29-6 | 29-7 | 29-7 | 29-8 |
| 350.00 | 33-11 | 34-0 | 34-1 | 34-1 | 34-2 | 34-3 | 34-3 | 34-4 | 34-5 | 34-5 |
| 375.00 | 39-0 | 39-1 | 39-2 | 39-3 | 39-3 | 39-4 | 39-5 | 39-6 | 39-7 | 39-7 |
| 400.00 | 44-6 | 44-7 | 44-8 | 44-9 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 |
| 425.00 | 50-4 | 50-5 | 50-6 | 50-7 | 50-8 | 50-9 | 50-10 | 50-11 | 51-0 | 51-1 |
| 450.00 | 56-7 | 56-8 | 56-9 | 56-10 | 56-11 | 57-0 | 57-1 | 57-3 | 57-4 | 57-5 |
| 475.00 | 63-2 | 63-3 | 63-4 | 63-6 | 63-7 | 63-8 | 63-10 | 63-11 | 64-0 | 64-1 |
| 500.00 | 70-2 | 70-3 | 70-5 | 70-6 | 70-7 | 70-9 | 70-10 | 71-0 | 71-1 | 71-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-0 | 11-0 | 11-1 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-2 |
| 225.00 | 14-0 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-1 | 14-2 | 14-2 |
| 250.00 | 17-3 | 17-3 | 17-4 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 |
| 275.00 | 20-11 | 20-11 | 21-0 | 21-0 | 21-1 | 21-1 | 21-1 | 21-2 | 21-2 | 21-3 |
| 300.00 | 24-11 | 24-11 | 25-0 | 25-0 | 25-1 | 25-1 | 25-2 | 25-2 | 25-3 | 25-3 |
| 325.00 | 29-3 | 29-4 | 29-5 | 29-5 | 29-6 | 29-6 | 29-7 | 29-8 | 29-8 | 29-9 |
| 350.00 | 34-0 | 34-1 | 34-2 | 34-2 | 34-3 | 34-4 | 34-4 | 34-5 | 34-6 | 34-6 |
| 375.00 | 39-2 | 39-2 | 39-3 | 39-4 | 39-5 | 39-6 | 39-6 | 39-7 | 39-8 | 39-9 |
| 400.00 | 44-7 | 44-8 | 44-9 | 44-10 | 44-11 | 45-0 | 45-1 | 45-2 | 45-3 | 45-3 |
| 425.00 | 50-6 | 50-7 | 50-8 | 50-9 | 50-10 | 50-11 | 51-0 | 51-1 | 51-2 | 51-3 |
| 450.00 | 56-8 | 56-10 | 56-11 | 57-0 | 57-1 | 57-2 | 57-3 | 57-4 | 57-6 | 57-7 |
| 475.00 | 63-4 | 63-5 | 63-6 | 63-8 | 63-9 | 63-10 | 64-0 | 64-1 | 64-2 | 64-3 |
| 500.00 | 70-4 | 70-5 | 70-7 | 70-8 | 70-10 | 70-11 | 71-1 | 71-2 | 71-4 | 71-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS



OH823.95

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-7 | 17-8 | 17-8 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-9 |
| 275.00 | 21-4 | 21-4 | 21-5 | 21-5 | 21-5 | 21-5 | 21-6 | 21-6 | 21-6 | 21-6 |
| 300.00 | 25-5 | 25-6 | 25-6 | 25-6 | 25-7 | 25-7 | 25-7 | 25-7 | 25-8 | 25-8 |
| 325.00 | 29-11 | 29-11 | 30-0 | 30-0 | 30-0 | 30-1 | 30-1 | 30-1 | 30-2 | 30-2 |
| 350.00 | 34-9 | 34-9 | 34-10 | 34-10 | 34-11 | 34-11 | 34-11 | 35-0 | 35-0 | 35-1 |
| 375.00 | 40-0 | 40-0 | 40-1 | 40-1 | 40-1 | 40-2 | 40-2 | 40-3 | 40-3 | 40-4 |
| 400.00 | 45-7 | 45-7 | 45-8 | 45-8 | 45-9 | 45-9 | 45-10 | 45-11 | 45-11 | 46-0 |
| 425.00 | 51-7 | 51-7 | 51-8 | 51-8 | 51-9 | 51-10 | 51-10 | 51-11 | 52-0 | 52-0 |
| 450.00 | 57-11 | 58-0 | 58-0 | 58-1 | 58-2 | 58-3 | 58-3 | 58-4 | 58-5 | 58-5 |
| 475.00 | 64-8 | 64-9 | 64-10 | 64-11 | 64-11 | 65-0 | 65-1 | 65-2 | 65-3 | 65-3 |
| 500.00 | 71-10 | 71-11 | 72-0 | 72-1 | 72-2 | 72-3 | 72-4 | 72-4 | 72-5 | 72-6 |
| 525.00 | 79-5 | 79-6 | 79-7 | 79-8 | 79-9 | 79-10 | 79-11 | 80-0 | 80-1 | 80-2 |
| 550.00 | 87-5 | 87-6 | 87-7 | 87-8 | 87-9 | 87-10 | 88-0 | 88-1 | 88-2 | 88-3 |
| 575.00 | 95-10 | 95-11 | 96-0 | 96-2 | 96-3 | 96-4 | 96-5 | 96-6 | 96-8 | 96-9 |
| 600.00 | 104-8 | 104-9 | 104-11 | 105-0 | 105-1 | 105-3 | 105-4 | 105-5 | 105-6 | 105-8 |
| 625.00 | 113-11 | 114-1 | 114-2 | 114-3 | 114-5 | 114-6 | 114-8 | 114-9 | 114-11 | 115-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 17-8 | 17-8 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-9 | 17-9 | 17-10 |
| 275.00 | 21-5 | 21-5 | 21-5 | 21-5 | 21-6 | 21-6 | 21-6 | 21-6 | 21-7 | 21-7 |
| 300.00 | 25-6 | 25-6 | 25-6 | 25-7 | 25-7 | 25-7 | 25-8 | 25-8 | 25-8 | 25-9 |
| 325.00 | 29-11 | 30-0 | 30-0 | 30-1 | 30-1 | 30-1 | 30-2 | 30-2 | 30-2 | 30-3 |
| 350.00 | 34-10 | 34-10 | 34-10 | 34-11 | 34-11 | 35-0 | 35-0 | 35-1 | 35-1 | 35-1 |
| 375.00 | 40-0 | 40-1 | 40-1 | 40-2 | 40-2 | 40-3 | 40-3 | 40-4 | 40-4 | 40-5 |
| 400.00 | 45-8 | 45-8 | 45-9 | 45-9 | 45-10 | 45-10 | 45-11 | 45-11 | 46-0 | 46-1 |
| 425.00 | 51-7 | 51-8 | 51-9 | 51-9 | 51-10 | 51-11 | 51-11 | 52-0 | 52-1 | 52-1 |
| 450.00 | 58-0 | 58-1 | 58-2 | 58-2 | 58-3 | 58-4 | 58-4 | 58-5 | 58-6 | 58-7 |
| 475.00 | 64-9 | 64-10 | 64-11 | 65-0 | 65-1 | 65-1 | 65-2 | 65-3 | 65-4 | 65-5 |
| 500.00 | 72-0 | 72-1 | 72-1 | 72-2 | 72-3 | 72-4 | 72-5 | 72-6 | 72-7 | 72-8 |
| 525.00 | 79-7 | 79-8 | 79-9 | 79-10 | 79-11 | 80-0 | 80-1 | 80-2 | 80-3 | 80-4 |
| 550.00 | 87-7 | 87-8 | 87-9 | 87-10 | 87-11 | 88-0 | 88-1 | 88-2 | 88-4 | 88-5 |
| 575.00 | 96-0 | 96-1 | 96-2 | 96-3 | 96-5 | 96-6 | 96-7 | 96-8 | 96-10 | 96-11 |
| 600.00 | 104-10 | 104-11 | 105-1 | 105-2 | 105-3 | 105-5 | 105-6 | 105-7 | 105-9 | 105-10 |
| 625.00 | 114-1 | 114-3 | 114-4 | 114-6 | 114-7 | 114-9 | 114-10 | 115-0 | 115-1 | 115-3 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 1.86 | 1435 | 1.78 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 1.38 | 1019 | 1.24 | 1131 |
| 30 | 0 | 0 | 0 | 1.12 | 1.67 | 839 | 1.51 | 931 |
| 40 | 0 | 0 | 0 | 1.12 | 1.76 | 794 | 1.6 | 878 |
| 50 | 0 | 0 | 0 | 1.12 | 1.86 | 755 | 1.68 | 832 |
| 60 | 0 | 0 | 0 | 1.12 | 1.95 | 720 | 1.77 | 791 |
| 70 | 0 | 0 | 0 | 1.12 | 2.04 | 689 | 1.86 | 754 |
| 80 | 0 | 0 | 0 | 1.12 | 2.12 | 661 | 1.95 | 721 |
| 90 | 0 | 0 | 0 | 1.12 | 2.21 | 636 | 2.03 | 691 |
| 100 | 0 | 0 | 0 | 1.12 | 2.29 | 613 | 2.11 | 664 |
| 110 | 0 | 0 | 0 | 1.12 | 2.37 | 593 | 2.19 | 640 |
| 120 | 0 | 0 | 0 | 1.12 | 2.44 | 574 | 2.27 | 618 |
| 130 | 0 | 0 | 0 | 1.12 | 2.52 | 557 | 2.35 | 597 |
| 167 | 0 | 0 | 0 | 1.12 | 2.69 | 522 | 2.62 | 536 |
| 212 | 0 | 0 | 0 | 1.12 | 2.88 | 488 | 2.86 | 492 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 7.25 | 1476 | 7.13 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 6.69 | 841 | 6.48 | 868 |
| 30 | 0 | 0 | 0 | 1.12 | 7.02 | 801 | 6.81 | 826 |
| 40 | 0 | 0 | 0 | 1.12 | 7.13 | 789 | 6.91 | 814 |
| 50 | 0 | 0 | 0 | 1.12 | 7.24 | 778 | 7.02 | 802 |
| 60 | 0 | 0 | 0 | 1.12 | 7.35 | 767 | 7.13 | 790 |
| 70 | 0 | 0 | 0 | 1.12 | 7.45 | 756 | 7.23 | 779 |
| 80 | 0 | 0 | 0 | 1.12 | 7.55 | 746 | 7.33 | 768 |
| 90 | 0 | 0 | 0 | 1.12 | 7.66 | 736 | 7.43 | 757 |
| 100 | 0 | 0 | 0 | 1.12 | 7.76 | 726 | 7.53 | 747 |
| 110 | 0 | 0 | 0 | 1.12 | 7.86 | 717 | 7.63 | 738 |
| 120 | 0 | 0 | 0 | 1.12 | 7.96 | 708 | 7.73 | 729 |
| 130 | 0 | 0 | 0 | 1.12 | 8.06 | 700 | 7.83 | 720 |
| 167 | 0 | 0 | 0 | 1.12 | 8.38 | 673 | 8.18 | 689 |
| 212 | 0 | 0 | 0 | 1.12 | 8.64 | 653 | 8.6 | 656 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 16.27 | 1488 | 16.14 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 15.7 | 811 | 15.48 | 823 |
| 30 | 0 | 0 | 0 | 1.12 | 16.04 | 795 | 15.81 | 806 |
| 40 | 0 | 0 | 0 | 1.12 | 16.15 | 789 | 15.92 | 800 |
| 50 | 0 | 0 | 0 | 1.12 | 16.26 | 784 | 16.03 | 795 |
| 60 | 0 | 0 | 0 | 1.12 | 16.37 | 779 | 16.14 | 790 |
| 70 | 0 | 0 | 0 | 1.12 | 16.48 | 774 | 16.25 | 785 |
| 80 | 0 | 0 | 0 | 1.12 | 16.59 | 769 | 16.35 | 780 |
| 90 | 0 | 0 | 0 | 1.12 | 16.7 | 764 | 16.46 | 775 |
| 100 | 0 | 0 | 0 | 1.12 | 16.81 | 759 | 16.57 | 770 |
| 110 | 0 | 0 | 0 | 1.12 | 16.91 | 754 | 16.67 | 765 |
| 120 | 0 | 0 | 0 | 1.12 | 17.02 | 750 | 16.78 | 760 |
| 130 | 0 | 0 | 0 | 1.12 | 17.13 | 745 | 16.88 | 756 |
| 167 | 0 | 0 | 0 | 1.12 | 17.51 | 729 | 17.27 | 739 |
| 212 | 0 | 0 | 0 | 1.12 | 17.82 | 717 | 17.72 | 721 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 29.1 | 1493 | 28.96 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 28.52 | 801 | 28.3 | 807 |
| 30 | 0 | 0 | 0 | 1.12 | 28.86 | 792 | 28.63 | 798 |
| 40 | 0 | 0 | 0 | 1.12 | 28.97 | 789 | 28.74 | 795 |
| 50 | 0 | 0 | 0 | 1.12 | 29.09 | 786 | 28.85 | 793 |
| 60 | 0 | 0 | 0 | 1.12 | 29.2 | 784 | 28.96 | 790 |
| 70 | 0 | 0 | 0 | 1.12 | 29.31 | 781 | 29.07 | 787 |
| 80 | 0 | 0 | 0 | 1.12 | 29.42 | 778 | 29.18 | 784 |
| 90 | 0 | 0 | 0 | 1.12 | 29.53 | 775 | 29.29 | 781 |
| 100 | 0 | 0 | 0 | 1.12 | 29.64 | 772 | 29.4 | 778 |
| 110 | 0 | 0 | 0 | 1.12 | 29.75 | 770 | 29.5 | 776 |
| 120 | 0 | 0 | 0 | 1.12 | 29.86 | 767 | 29.61 | 773 |
| 130 | 0 | 0 | 0 | 1.12 | 29.97 | 764 | 29.72 | 770 |
| 167 | 0 | 0 | 0 | 1.12 | 30.37 | 755 | 30.12 | 761 |
| 212 | 0 | 0 | 0 | 1.12 | 30.72 | 746 | 30.59 | 749 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 45.95 | 1496 | 45.82 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 45.37 | 797 | 45.15 | 800 |
| 30 | 0 | 0 | 0 | 1.12 | 45.72 | 791 | 45.49 | 795 |
| 40 | 0 | 0 | 0 | 1.12 | 45.83 | 789 | 45.6 | 793 |
| 50 | 0 | 0 | 0 | 1.12 | 45.94 | 788 | 45.71 | 791 |
| 60 | 0 | 0 | 0 | 1.12 | 46.05 | 786 | 45.82 | 790 |
| 70 | 0 | 0 | 0 | 1.12 | 46.17 | 784 | 45.93 | 788 |
| 80 | 0 | 0 | 0 | 1.12 | 46.28 | 782 | 46.04 | 786 |
| 90 | 0 | 0 | 0 | 1.12 | 46.39 | 781 | 46.15 | 784 |
| 100 | 0 | 0 | 0 | 1.12 | 46.5 | 779 | 46.25 | 783 |
| 110 | 0 | 0 | 0 | 1.12 | 46.61 | 777 | 46.36 | 781 |
| 120 | 0 | 0 | 0 | 1.12 | 46.73 | 775 | 46.47 | 779 |
| 130 | 0 | 0 | 0 | 1.12 | 46.84 | 774 | 46.58 | 778 |
| 167 | 0 | 0 | 0 | 1.12 | 47.24 | 767 | 46.98 | 771 |
| 212 | 0 | 0 | 0 | 1.12 | 47.61 | 762 | 47.47 | 764 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-10 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 125.00 | 2-3 | 2-4 | 2-6 | 2-8 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 |
| 150.00 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 4-11 |
| 175.00 | 4-4 | 4-7 | 4-11 | 5-2 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 |
| 200.00 | 5-8 | 6-0 | 6-5 | 6-9 | 7-1 | 7-5 | 7-10 | 8-2 | 8-6 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 |
| 100.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 125.00 | 2-6 | 2-7 | 2-9 | 2-11 | 3-1 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 |
| 150.00 | 3-6 | 3-9 | 4-0 | 4-2 | 4-5 | 4-7 | 4-9 | 5-0 | 5-2 | 5-4 |
| 175.00 | 4-10 | 5-1 | 5-5 | 5-8 | 6-0 | 6-3 | 6-6 | 6-9 | 7-0 | 7-3 |
| 200.00 | 6-4 | 6-8 | 7-1 | 7-5 | 7-10 | 8-2 | 8-6 | 8-10 | 9-2 | 9-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.100

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-8 | 1-8 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 |
| 125.00 | 2-7 | 2-8 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 |
| 150.00 | 3-9 | 3-10 | 3-11 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 |
| 175.00 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 |
| 200.00 | 6-8 | 6-10 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-6 | 7-8 |
| 225.00 | 8-6 | 8-7 | 8-9 | 8-11 | 9-0 | 9-2 | 9-3 | 9-5 | 9-6 | 9-8 |
| 250.00 | 10-6 | 10-8 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-9 | 11-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-9 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 |
| 125.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-10 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 |
| 175.00 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-8 | 5-9 | 5-10 | 5-11 | 6-0 |
| 200.00 | 6-11 | 7-0 | 7-2 | 7-3 | 7-4 | 7-5 | 7-7 | 7-8 | 7-9 | 7-10 |
| 225.00 | 8-9 | 8-11 | 9-0 | 9-2 | 9-4 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 |
| 250.00 | 10-10 | 11-0 | 11-2 | 11-4 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.101

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 |
| 175.00 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-7 | 5-8 |
| 200.00 | 7-0 | 7-0 | 7-1 | 7-1 | 7-2 | 7-2 | 7-3 | 7-4 | 7-4 | 7-5 |
| 225.00 | 8-10 | 8-11 | 8-11 | 9-0 | 9-1 | 9-1 | 9-2 | 9-3 | 9-4 | 9-4 |
| 250.00 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 |
| 275.00 | 13-2 | 13-3 | 13-4 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 |
| 300.00 | 15-8 | 15-10 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 |
| 325.00 | 18-5 | 18-7 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 | 19-4 | 19-5 | 19-7 |
| 350.00 | 21-5 | 21-7 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-5 | 22-7 | 22-9 |
| 375.00 | 24-7 | 24-9 | 24-11 | 25-1 | 25-3 | 25-5 | 25-7 | 25-9 | 25-11 | 26-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-0 | 4-0 | 4-0 | 4-1 | 4-1 | 4-1 | 4-2 | 4-2 | 4-2 | 4-3 |
| 175.00 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 | 5-8 | 5-8 | 5-8 | 5-9 |
| 200.00 | 7-1 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 | 7-4 | 7-5 | 7-5 | 7-6 |
| 225.00 | 8-11 | 9-0 | 9-1 | 9-2 | 9-2 | 9-3 | 9-4 | 9-5 | 9-5 | 9-6 |
| 250.00 | 11-1 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 | 11-7 | 11-8 | 11-9 |
| 275.00 | 13-4 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 |
| 300.00 | 15-11 | 16-0 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 |
| 325.00 | 18-8 | 18-10 | 19-0 | 19-1 | 19-3 | 19-4 | 19-6 | 19-7 | 19-9 | 19-10 |
| 350.00 | 21-8 | 21-10 | 22-0 | 22-2 | 22-4 | 22-6 | 22-7 | 22-9 | 22-11 | 23-1 |
| 375.00 | 24-11 | 25-1 | 25-3 | 25-6 | 25-8 | 25-10 | 26-0 | 26-2 | 26-4 | 26-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 |
| 225.00 | 9-0 | 9-0 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 | 9-3 |
| 250.00 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 |
| 275.00 | 13-5 | 13-6 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 | 13-11 |
| 300.00 | 16-0 | 16-1 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-7 |
| 325.00 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 |
| 350.00 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 |
| 375.00 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-9 | 25-10 | 25-11 |
| 400.00 | 28-6 | 28-8 | 28-9 | 28-10 | 29-0 | 29-1 | 29-2 | 29-3 | 29-5 | 29-6 |
| 425.00 | 32-3 | 32-4 | 32-6 | 32-7 | 32-9 | 32-10 | 33-0 | 33-1 | 33-3 | 33-4 |
| 450.00 | 36-2 | 36-4 | 36-5 | 36-7 | 36-9 | 36-10 | 37-0 | 37-2 | 37-3 | 37-5 |
| 475.00 | 40-4 | 40-6 | 40-8 | 40-10 | 40-11 | 41-1 | 41-3 | 41-5 | 41-7 | 41-9 |
| 500.00 | 44-9 | 44-11 | 45-1 | 45-3 | 45-5 | 45-7 | 45-9 | 45-11 | 46-1 | 46-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-4 | 7-4 | 7-4 | 7-5 |
| 225.00 | 9-1 | 9-1 | 9-1 | 9-2 | 9-2 | 9-3 | 9-3 | 9-4 | 9-4 | 9-4 |
| 250.00 | 11-2 | 11-3 | 11-3 | 11-4 | 11-4 | 11-5 | 11-5 | 11-6 | 11-6 | 11-7 |
| 275.00 | 13-6 | 13-7 | 13-8 | 13-8 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 14-0 |
| 300.00 | 16-1 | 16-2 | 16-3 | 16-4 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 |
| 325.00 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-5 | 19-6 | 19-7 |
| 350.00 | 22-0 | 22-1 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-7 | 22-8 | 22-9 |
| 375.00 | 25-3 | 25-4 | 25-5 | 25-7 | 25-8 | 25-9 | 25-10 | 25-11 | 26-0 | 26-2 |
| 400.00 | 28-9 | 28-10 | 29-0 | 29-1 | 29-2 | 29-4 | 29-5 | 29-6 | 29-8 | 29-9 |
| 425.00 | 32-6 | 32-7 | 32-9 | 32-10 | 33-0 | 33-1 | 33-3 | 33-4 | 33-6 | 33-7 |
| 450.00 | 36-5 | 36-7 | 36-9 | 36-11 | 37-0 | 37-2 | 37-4 | 37-5 | 37-7 | 37-9 |
| 475.00 | 40-8 | 40-10 | 41-0 | 41-2 | 41-4 | 41-5 | 41-7 | 41-9 | 41-11 | 42-1 |
| 500.00 | 45-1 | 45-3 | 45-5 | 45-7 | 45-10 | 46-0 | 46-2 | 46-4 | 46-6 | 46-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 |
| 275.00 | 13-7 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 |
| 300.00 | 16-3 | 16-3 | 16-4 | 16-4 | 16-5 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 |
| 325.00 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 | 19-4 | 19-4 | 19-5 | 19-6 |
| 350.00 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 | 22-7 |
| 375.00 | 25-5 | 25-6 | 25-6 | 25-7 | 25-8 | 25-9 | 25-9 | 25-10 | 25-11 | 25-11 |
| 400.00 | 28-11 | 29-0 | 29-1 | 29-2 | 29-2 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 |
| 425.00 | 32-8 | 32-9 | 32-10 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 | 33-5 |
| 450.00 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-1 | 37-3 | 37-4 | 37-5 | 37-6 |
| 475.00 | 40-11 | 41-0 | 41-1 | 41-2 | 41-4 | 41-5 | 41-6 | 41-7 | 41-8 | 41-10 |
| 500.00 | 45-5 | 45-6 | 45-7 | 45-8 | 45-10 | 45-11 | 46-0 | 46-2 | 46-3 | 46-4 |
| 525.00 | 50-1 | 50-2 | 50-4 | 50-5 | 50-7 | 50-8 | 50-10 | 50-11 | 51-1 | 51-2 |
| 550.00 | 55-0 | 55-2 | 55-4 | 55-5 | 55-7 | 55-8 | 55-10 | 56-0 | 56-1 | 56-3 |
| 575.00 | 60-3 | 60-4 | 60-6 | 60-8 | 60-10 | 60-11 | 61-1 | 61-3 | 61-5 | 61-6 |
| 600.00 | 65-8 | 65-10 | 66-0 | 66-2 | 66-4 | 66-5 | 66-7 | 66-9 | 66-11 | 67-1 |
| 625.00 | 71-4 | 71-6 | 71-8 | 71-10 | 72-0 | 72-2 | 72-5 | 72-7 | 72-9 | 72-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-7 |
| 275.00 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 14-0 |
| 300.00 | 16-4 | 16-4 | 16-5 | 16-5 | 16-6 | 16-6 | 16-7 | 16-7 | 16-7 | 16-8 |
| 325.00 | 19-2 | 19-2 | 19-3 | 19-3 | 19-4 | 19-5 | 19-5 | 19-6 | 19-6 | 19-7 |
| 350.00 | 22-3 | 22-3 | 22-4 | 22-5 | 22-5 | 22-6 | 22-7 | 22-7 | 22-8 | 22-9 |
| 375.00 | 25-6 | 25-7 | 25-8 | 25-9 | 25-9 | 25-10 | 25-11 | 26-0 | 26-0 | 26-1 |
| 400.00 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 |
| 425.00 | 32-10 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 | 33-5 | 33-6 | 33-7 |
| 450.00 | 36-10 | 36-11 | 37-1 | 37-2 | 37-3 | 37-4 | 37-5 | 37-6 | 37-7 | 37-8 |
| 475.00 | 41-1 | 41-3 | 41-4 | 41-5 | 41-6 | 41-7 | 41-9 | 41-10 | 41-11 | 42-0 |
| 500.00 | 45-7 | 45-9 | 45-10 | 45-11 | 46-1 | 46-2 | 46-3 | 46-5 | 46-6 | 46-7 |
| 525.00 | 50-4 | 50-5 | 50-7 | 50-8 | 50-10 | 50-11 | 51-1 | 51-2 | 51-4 | 51-5 |
| 550.00 | 55-4 | 55-5 | 55-7 | 55-9 | 55-10 | 56-0 | 56-2 | 56-3 | 56-5 | 56-6 |
| 575.00 | 60-6 | 60-8 | 60-10 | 61-0 | 61-1 | 61-3 | 61-5 | 61-7 | 61-9 | 61-10 |
| 600.00 | 66-0 | 66-2 | 66-4 | 66-6 | 66-8 | 66-10 | 67-0 | 67-2 | 67-4 | 67-6 |
| 625.00 | 71-8 | 71-10 | 72-1 | 72-3 | 72-5 | 72-7 | 72-9 | 72-11 | 73-1 | 73-4 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 1.41 | 1881 | 1.33 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 0.86 | 1628 | 0.77 | 1827 |
| 30 | 0 | 0 | 0 | 1.12 | 1.13 | 1242 | 0.95 | 1469 |
| 40 | 0 | 0 | 0 | 1.12 | 1.23 | 1143 | 1.03 | 1363 |
| 50 | 0 | 0 | 0 | 1.12 | 1.32 | 1057 | 1.11 | 1265 |
| 60 | 0 | 0 | 0 | 1.12 | 1.42 | 984 | 1.19 | 1176 |
| 70 | 0 | 0 | 0 | 1.12 | 1.52 | 920 | 1.28 | 1095 |
| 80 | 0 | 0 | 0 | 1.12 | 1.62 | 864 | 1.37 | 1024 |
| 90 | 0 | 0 | 0 | 1.12 | 1.72 | 816 | 1.46 | 960 |
| 100 | 0 | 0 | 0 | 1.12 | 1.81 | 774 | 1.55 | 904 |
| 110 | 0 | 0 | 0 | 1.12 | 1.9 | 737 | 1.64 | 854 |
| 120 | 0 | 0 | 0 | 1.12 | 1.99 | 704 | 1.73 | 810 |
| 130 | 0 | 0 | 0 | 1.12 | 2.08 | 675 | 1.82 | 770 |
| 167 | 0 | 0 | 0 | 1.12 | 2.28 | 615 | 2.13 | 658 |
| 212 | 0 | 0 | 0 | 1.12 | 2.48 | 565 | 2.45 | 572 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 5.48 | 1946 | 5.33 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 4.64 | 1209 | 4.33 | 1296 |
| 30 | 0 | 0 | 0 | 1.12 | 5.07 | 1107 | 4.74 | 1185 |
| 40 | 0 | 0 | 0 | 1.12 | 5.21 | 1078 | 4.87 | 1153 |
| 50 | 0 | 0 | 0 | 1.12 | 5.34 | 1051 | 5 | 1123 |
| 60 | 0 | 0 | 0 | 1.12 | 5.48 | 1025 | 5.13 | 1094 |
| 70 | 0 | 0 | 0 | 1.12 | 5.61 | 1001 | 5.26 | 1068 |
| 80 | 0 | 0 | 0 | 1.12 | 5.74 | 979 | 5.39 | 1042 |
| 90 | 0 | 0 | 0 | 1.12 | 5.87 | 958 | 5.51 | 1019 |
| 100 | 0 | 0 | 0 | 1.12 | 5.99 | 938 | 5.64 | 996 |
| 110 | 0 | 0 | 0 | 1.12 | 6.11 | 919 | 5.76 | 975 |
| 120 | 0 | 0 | 0 | 1.12 | 6.24 | 902 | 5.88 | 955 |
| 130 | 0 | 0 | 0 | 1.12 | 6.36 | 885 | 6 | 936 |
| 167 | 0 | 0 | 0 | 1.12 | 6.78 | 829 | 6.43 | 874 |
| 212 | 0 | 0 | 0 | 1.12 | 7.12 | 791 | 6.93 | 812 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 12.22 | 1972 | 12.05 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 11.32 | 1119 | 10.97 | 1155 |
| 30 | 0 | 0 | 0 | 1.12 | 11.77 | 1077 | 11.4 | 1111 |
| 40 | 0 | 0 | 0 | 1.12 | 11.92 | 1064 | 11.54 | 1098 |
| 50 | 0 | 0 | 0 | 1.12 | 12.06 | 1051 | 11.69 | 1085 |
| 60 | 0 | 0 | 0 | 1.12 | 12.21 | 1039 | 11.83 | 1072 |
| 70 | 0 | 0 | 0 | 1.12 | 12.35 | 1027 | 11.97 | 1060 |
| 80 | 0 | 0 | 0 | 1.12 | 12.49 | 1016 | 12.1 | 1048 |
| 90 | 0 | 0 | 0 | 1.12 | 12.63 | 1005 | 12.24 | 1036 |
| 100 | 0 | 0 | 0 | 1.12 | 12.77 | 994 | 12.38 | 1025 |
| 110 | 0 | 0 | 0 | 1.12 | 12.9 | 984 | 12.51 | 1014 |
| 120 | 0 | 0 | 0 | 1.12 | 13.04 | 974 | 12.64 | 1004 |
| 130 | 0 | 0 | 0 | 1.12 | 13.17 | 964 | 12.78 | 993 |
| 167 | 0 | 0 | 0 | 1.12 | 13.66 | 930 | 13.26 | 958 |
| 212 | 0 | 0 | 0 | 1.12 | 14.15 | 899 | 13.83 | 919 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 21.71 | 1983 | 21.52 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 20.79 | 1089 | 20.43 | 1108 |
| 30 | 0 | 0 | 0 | 1.12 | 21.25 | 1066 | 20.87 | 1085 |
| 40 | 0 | 0 | 0 | 1.12 | 21.4 | 1059 | 21.01 | 1078 |
| 50 | 0 | 0 | 0 | 1.12 | 21.54 | 1052 | 21.15 | 1071 |
| 60 | 0 | 0 | 0 | 1.12 | 21.69 | 1045 | 21.3 | 1064 |
| 70 | 0 | 0 | 0 | 1.12 | 21.84 | 1038 | 21.44 | 1057 |
| 80 | 0 | 0 | 0 | 1.12 | 21.98 | 1031 | 21.58 | 1050 |
| 90 | 0 | 0 | 0 | 1.12 | 22.13 | 1025 | 21.72 | 1043 |
| 100 | 0 | 0 | 0 | 1.12 | 22.27 | 1018 | 21.87 | 1037 |
| 110 | 0 | 0 | 0 | 1.12 | 22.41 | 1012 | 22.01 | 1030 |
| 120 | 0 | 0 | 0 | 1.12 | 22.55 | 1006 | 22.14 | 1024 |
| 130 | 0 | 0 | 0 | 1.12 | 22.7 | 1000 | 22.28 | 1018 |
| 167 | 0 | 0 | 0 | 1.12 | 23.21 | 978 | 22.79 | 996 |
| 212 | 0 | 0 | 0 | 1.12 | 23.79 | 955 | 23.4 | 970 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 10.8 | 0 | 2.128 | 34.04 | 1989 | 33.86 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 33.12 | 1075 | 32.75 | 1087 |
| 30 | 0 | 0 | 0 | 1.12 | 33.58 | 1061 | 33.19 | 1073 |
| 40 | 0 | 0 | 0 | 1.12 | 33.73 | 1057 | 33.34 | 1069 |
| 50 | 0 | 0 | 0 | 1.12 | 33.88 | 1052 | 33.48 | 1064 |
| 60 | 0 | 0 | 0 | 1.12 | 34.03 | 1048 | 33.63 | 1060 |
| 70 | 0 | 0 | 0 | 1.12 | 34.17 | 1043 | 33.77 | 1055 |
| 80 | 0 | 0 | 0 | 1.12 | 34.32 | 1039 | 33.92 | 1051 |
| 90 | 0 | 0 | 0 | 1.12 | 34.47 | 1035 | 34.06 | 1047 |
| 100 | 0 | 0 | 0 | 1.12 | 34.62 | 1031 | 34.2 | 1043 |
| 110 | 0 | 0 | 0 | 1.12 | 34.76 | 1026 | 34.35 | 1038 |
| 120 | 0 | 0 | 0 | 1.12 | 34.91 | 1022 | 34.49 | 1034 |
| 130 | 0 | 0 | 0 | 1.12 | 35.05 | 1018 | 34.63 | 1030 |
| 167 | 0 | 0 | 0 | 1.12 | 35.58 | 1004 | 35.15 | 1015 |
| 212 | 0 | 0 | 0 | 1.12 | 36.22 | 987 | 35.78 | 998 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-6 | 0-6 | 0-7 | 0-7 | 0-8 | 0-9 | 0-9 | 0-10 | 0-10 | 0-11 |
| 100.00 | 0-11 | 0-11 | 1-0 | 1-1 | 1-2 | 1-3 | 1-4 | 1-6 | 1-7 | 1-8 |
| 125.00 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 2-0 | 2-2 | 2-3 | 2-5 | 2-7 |
| 150.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-11 | 3-1 | 3-3 | 3-6 | 3-8 |
| 175.00 | 2-9 | 2-11 | 3-2 | 3-5 | 3-8 | 3-11 | 4-2 | 4-6 | 4-9 | 5-0 |
| 200.00 | 3-6 | 3-10 | 4-1 | 4-5 | 4-9 | 5-1 | 5-6 | 5-10 | 6-2 | 6-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-7 | 0-8 | 0-8 | 0-9 | 0-10 | 0-10 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 1-0 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-7 | 1-9 | 1-11 | 2-1 | 2-3 | 2-5 | 2-6 | 2-8 | 2-10 | 3-0 |
| 150.00 | 2-4 | 2-6 | 2-9 | 3-0 | 3-2 | 3-5 | 3-8 | 3-10 | 4-1 | 4-3 |
| 175.00 | 3-2 | 3-5 | 3-9 | 4-1 | 4-4 | 4-8 | 5-0 | 5-3 | 5-7 | 5-10 |
| 200.00 | 4-2 | 4-6 | 4-11 | 5-4 | 5-8 | 6-1 | 6-6 | 6-11 | 7-3 | 7-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-2 | 1-2 | 1-3 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-5 |
| 125.00 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 | 2-1 | 2-1 | 2-2 | 2-2 | 2-3 |
| 150.00 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 |
| 175.00 | 3-6 | 3-8 | 3-9 | 3-10 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 |
| 200.00 | 4-7 | 4-9 | 4-10 | 5-0 | 5-2 | 5-3 | 5-5 | 5-6 | 5-8 | 5-9 |
| 225.00 | 5-10 | 6-0 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 | 7-2 | 7-4 |
| 250.00 | 7-2 | 7-5 | 7-7 | 7-10 | 8-0 | 8-3 | 8-5 | 8-7 | 8-10 | 9-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-3 | 1-3 | 1-4 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-6 |
| 125.00 | 1-11 | 2-0 | 2-0 | 2-1 | 2-2 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 |
| 150.00 | 2-9 | 2-10 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-4 | 3-4 | 3-5 |
| 175.00 | 3-9 | 3-11 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-7 | 4-8 |
| 200.00 | 4-11 | 5-1 | 5-3 | 5-4 | 5-6 | 5-7 | 5-9 | 5-10 | 6-0 | 6-1 |
| 225.00 | 6-3 | 6-5 | 6-7 | 6-9 | 6-11 | 7-1 | 7-3 | 7-5 | 7-7 | 7-9 |
| 250.00 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 9-0 | 9-2 | 9-4 | 9-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-10 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 |
| 175.00 | 3-10 | 3-10 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 |
| 200.00 | 5-0 | 5-1 | 5-2 | 5-2 | 5-3 | 5-4 | 5-4 | 5-5 | 5-6 | 5-7 |
| 225.00 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 | 7-0 |
| 250.00 | 7-10 | 7-11 | 8-0 | 8-1 | 8-2 | 8-4 | 8-5 | 8-6 | 8-7 | 8-8 |
| 275.00 | 9-5 | 9-7 | 9-8 | 9-10 | 9-11 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 |
| 300.00 | 11-3 | 11-5 | 11-7 | 11-8 | 11-10 | 12-0 | 12-1 | 12-3 | 12-5 | 12-6 |
| 325.00 | 13-3 | 13-5 | 13-7 | 13-9 | 13-11 | 14-1 | 14-3 | 14-4 | 14-6 | 14-8 |
| 350.00 | 15-4 | 15-6 | 15-9 | 15-11 | 16-1 | 16-4 | 16-6 | 16-8 | 16-10 | 17-1 |
| 375.00 | 17-7 | 17-10 | 18-1 | 18-3 | 18-6 | 18-9 | 18-11 | 19-2 | 19-4 | 19-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 |
| 175.00 | 3-11 | 4-0 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 |
| 200.00 | 5-2 | 5-3 | 5-3 | 5-4 | 5-5 | 5-6 | 5-7 | 5-7 | 5-8 | 5-9 |
| 225.00 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 |
| 250.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-6 | 8-7 | 8-8 | 8-9 | 8-10 | 8-11 |
| 275.00 | 9-9 | 9-11 | 10-0 | 10-2 | 10-3 | 10-4 | 10-6 | 10-7 | 10-9 | 10-10 |
| 300.00 | 11-7 | 11-9 | 11-11 | 12-1 | 12-2 | 12-4 | 12-6 | 12-8 | 12-9 | 12-11 |
| 325.00 | 13-8 | 13-10 | 14-0 | 14-2 | 14-4 | 14-6 | 14-8 | 14-10 | 15-0 | 15-2 |
| 350.00 | 15-10 | 16-0 | 16-3 | 16-5 | 16-8 | 16-10 | 17-0 | 17-2 | 17-5 | 17-7 |
| 375.00 | 18-2 | 18-5 | 18-8 | 18-10 | 19-1 | 19-4 | 19-6 | 19-9 | 20-0 | 20-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-2 | 5-2 | 5-3 | 5-3 | 5-4 | 5-4 | 5-5 | 5-5 | 5-5 | 5-6 |
| 225.00 | 6-6 | 6-7 | 6-8 | 6-8 | 6-9 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 |
| 250.00 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 |
| 275.00 | 9-9 | 9-10 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-4 | 10-5 |
| 300.00 | 11-8 | 11-9 | 11-10 | 11-11 | 12-0 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 |
| 325.00 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 | 14-6 |
| 350.00 | 15-10 | 16-0 | 16-1 | 16-2 | 16-4 | 16-5 | 16-6 | 16-7 | 16-9 | 16-10 |
| 375.00 | 18-2 | 18-4 | 18-5 | 18-7 | 18-9 | 18-10 | 19-0 | 19-1 | 19-2 | 19-4 |
| 400.00 | 20-9 | 20-10 | 21-0 | 21-2 | 21-4 | 21-5 | 21-7 | 21-9 | 21-10 | 22-0 |
| 425.00 | 23-5 | 23-7 | 23-9 | 23-11 | 24-1 | 24-3 | 24-5 | 24-6 | 24-8 | 24-10 |
| 450.00 | 26-3 | 26-5 | 26-7 | 26-10 | 27-0 | 27-2 | 27-4 | 27-6 | 27-8 | 27-11 |
| 475.00 | 29-3 | 29-6 | 29-8 | 29-11 | 30-1 | 30-3 | 30-6 | 30-8 | 30-11 | 31-1 |
| 500.00 | 32-5 | 32-8 | 32-11 | 33-1 | 33-4 | 33-7 | 33-10 | 34-0 | 34-3 | 34-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 5-3 | 5-4 | 5-4 | 5-4 | 5-5 | 5-5 | 5-6 | 5-6 | 5-7 | 5-7 |
| 225.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 6-11 | 7-0 | 7-0 | 7-1 |
| 250.00 | 8-3 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 |
| 275.00 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-7 |
| 300.00 | 11-10 | 11-11 | 12-0 | 12-1 | 12-2 | 12-3 | 12-4 | 12-5 | 12-6 | 12-7 |
| 325.00 | 13-11 | 14-0 | 14-1 | 14-2 | 14-4 | 14-5 | 14-6 | 14-7 | 14-8 | 14-9 |
| 350.00 | 16-2 | 16-3 | 16-4 | 16-6 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 | 17-2 |
| 375.00 | 18-6 | 18-8 | 18-10 | 18-11 | 19-1 | 19-2 | 19-4 | 19-5 | 19-7 | 19-8 |
| 400.00 | 21-1 | 21-3 | 21-5 | 21-7 | 21-8 | 21-10 | 22-0 | 22-2 | 22-3 | 22-5 |
| 425.00 | 23-10 | 24-0 | 24-2 | 24-4 | 24-6 | 24-8 | 24-10 | 25-0 | 25-2 | 25-4 |
| 450.00 | 26-9 | 26-11 | 27-1 | 27-4 | 27-6 | 27-8 | 27-10 | 28-0 | 28-3 | 28-5 |
| 475.00 | 29-10 | 30-0 | 30-3 | 30-5 | 30-8 | 30-10 | 31-1 | 31-3 | 31-5 | 31-8 |
| 500.00 | 33-0 | 33-3 | 33-6 | 33-9 | 34-0 | 34-2 | 34-5 | 34-8 | 34-11 | 35-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-7 |
| 275.00 | 9-11 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 |
| 300.00 | 11-10 | 11-11 | 11-11 | 12-0 | 12-1 | 12-1 | 12-2 | 12-3 | 12-3 | 12-4 |
| 325.00 | 13-11 | 14-0 | 14-0 | 14-1 | 14-2 | 14-3 | 14-3 | 14-4 | 14-5 | 14-6 |
| 350.00 | 16-2 | 16-3 | 16-3 | 16-4 | 16-5 | 16-6 | 16-7 | 16-8 | 16-8 | 16-9 |
| 375.00 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 |
| 400.00 | 21-1 | 21-2 | 21-3 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 | 21-10 | 21-11 |
| 425.00 | 23-10 | 23-11 | 24-1 | 24-2 | 24-3 | 24-4 | 24-6 | 24-7 | 24-8 | 24-9 |
| 450.00 | 26-9 | 26-10 | 27-0 | 27-1 | 27-2 | 27-4 | 27-5 | 27-7 | 27-8 | 27-9 |
| 475.00 | 29-10 | 29-11 | 30-1 | 30-2 | 30-4 | 30-6 | 30-7 | 30-9 | 30-10 | 31-0 |
| 500.00 | 33-1 | 33-2 | 33-4 | 33-6 | 33-8 | 33-9 | 33-11 | 34-1 | 34-2 | 34-4 |
| 525.00 | 36-5 | 36-7 | 36-9 | 36-11 | 37-1 | 37-3 | 37-5 | 37-7 | 37-9 | 37-11 |
| 550.00 | 40-0 | 40-3 | 40-5 | 40-7 | 40-9 | 40-11 | 41-1 | 41-3 | 41-5 | 41-7 |
| 575.00 | 43-9 | 44-0 | 44-2 | 44-4 | 44-7 | 44-9 | 44-11 | 45-2 | 45-4 | 45-6 |
| 600.00 | 47-8 | 47-11 | 48-2 | 48-4 | 48-7 | 48-9 | 49-0 | 49-2 | 49-5 | 49-7 |
| 625.00 | 51-10 | 52-0 | 52-3 | 52-6 | 52-9 | 52-11 | 53-2 | 53-5 | 53-8 | 53-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-8 |
| 275.00 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 |
| 300.00 | 12-0 | 12-1 | 12-1 | 12-2 | 12-2 | 12-3 | 12-4 | 12-4 | 12-5 | 12-6 |
| 325.00 | 14-1 | 14-2 | 14-2 | 14-3 | 14-4 | 14-5 | 14-5 | 14-6 | 14-7 | 14-8 |
| 350.00 | 16-4 | 16-5 | 16-6 | 16-7 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 |
| 375.00 | 18-9 | 18-10 | 18-11 | 19-0 | 19-1 | 19-2 | 19-3 | 19-4 | 19-5 | 19-6 |
| 400.00 | 21-4 | 21-5 | 21-6 | 21-8 | 21-9 | 21-10 | 21-11 | 22-0 | 22-1 | 22-2 |
| 425.00 | 24-1 | 24-3 | 24-4 | 24-5 | 24-7 | 24-8 | 24-9 | 24-10 | 25-0 | 25-1 |
| 450.00 | 27-1 | 27-2 | 27-3 | 27-5 | 27-6 | 27-8 | 27-9 | 27-11 | 28-0 | 28-1 |
| 475.00 | 30-2 | 30-3 | 30-5 | 30-7 | 30-8 | 30-10 | 30-11 | 31-1 | 31-3 | 31-4 |
| 500.00 | 33-5 | 33-7 | 33-9 | 33-11 | 34-0 | 34-2 | 34-4 | 34-6 | 34-7 | 34-9 |
| 525.00 | 36-11 | 37-1 | 37-2 | 37-4 | 37-6 | 37-8 | 37-10 | 38-0 | 38-2 | 38-4 |
| 550.00 | 40-6 | 40-8 | 40-10 | 41-1 | 41-3 | 41-5 | 41-7 | 41-9 | 41-11 | 42-1 |
| 575.00 | 44-3 | 44-6 | 44-8 | 44-11 | 45-1 | 45-3 | 45-6 | 45-8 | 45-10 | 46-1 |
| 600.00 | 48-3 | 48-6 | 48-8 | 48-11 | 49-2 | 49-4 | 49-7 | 49-9 | 50-0 | 50-2 |
| 625.00 | 52-5 | 52-8 | 52-11 | 53-1 | 53-4 | 53-7 | 53-10 | 54-1 | 54-3 | 54-6 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 4.18 | 993 | 4.15 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 3.89 | 362 | 3.83 | 368 |
| 30 | 0 | 0 | 0 | 1.12 | 3.94 | 358 | 3.88 | 363 |
| 40 | 0 | 0 | 0 | 1.12 | 3.99 | 353 | 3.93 | 359 |
| 50 | 0 | 0 | 0 | 1.12 | 4.04 | 349 | 3.98 | 354 |
| 60 | 0 | 0 | 0 | 1.12 | 4.09 | 345 | 4.03 | 350 |
| 70 | 0 | 0 | 0 | 1.12 | 4.14 | 341 | 4.07 | 346 |
| 80 | 0 | 0 | 0 | 1.12 | 4.18 | 337 | 4.12 | 342 |
| 90 | 0 | 0 | 0 | 1.12 | 4.23 | 333 | 4.17 | 338 |
| 100 | 0 | 0 | 0 | 1.12 | 4.28 | 330 | 4.22 | 334 |
| 110 | 0 | 0 | 0 | 1.12 | 4.31 | 327 | 4.26 | 331 |
| 120 | 0 | 0 | 0 | 1.12 | 4.34 | 325 | 4.31 | 327 |
| 130 | 0 | 0 | 0 | 1.12 | 4.37 | 323 | 4.35 | 324 |
| 167 | 0 | 0 | 0 | 1.12 | 4.48 | 315 | 4.47 | 315 |
| 212 | 0 | 0 | 0 | 1.12 | 4.61 | 306 | 4.6 | 307 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 16.98 | 998 | 16.95 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 16.69 | 345 | 16.63 | 346 |
| 30 | 0 | 0 | 0 | 1.12 | 16.74 | 344 | 16.68 | 345 |
| 40 | 0 | 0 | 0 | 1.12 | 16.79 | 343 | 16.73 | 344 |
| 50 | 0 | 0 | 0 | 1.12 | 16.84 | 342 | 16.78 | 343 |
| 60 | 0 | 0 | 0 | 1.12 | 16.89 | 341 | 16.83 | 342 |
| 70 | 0 | 0 | 0 | 1.12 | 16.94 | 340 | 16.88 | 341 |
| 80 | 0 | 0 | 0 | 1.12 | 16.99 | 339 | 16.92 | 340 |
| 90 | 0 | 0 | 0 | 1.12 | 17.03 | 338 | 16.97 | 339 |
| 100 | 0 | 0 | 0 | 1.12 | 17.08 | 337 | 17.02 | 339 |
| 110 | 0 | 0 | 0 | 1.12 | 17.12 | 337 | 17.07 | 338 |
| 120 | 0 | 0 | 0 | 1.12 | 17.16 | 336 | 17.12 | 337 |
| 130 | 0 | 0 | 0 | 1.12 | 17.19 | 335 | 17.16 | 336 |
| 167 | 0 | 0 | 0 | 1.12 | 17.31 | 333 | 17.3 | 333 |
| 212 | 0 | 0 | 0 | 1.12 | 17.45 | 331 | 17.44 | 331 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 39.71 | 999 | 39.68 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 39.42 | 342 | 39.36 | 342 |
| 30 | 0 | 0 | 0 | 1.12 | 39.47 | 341 | 39.41 | 342 |
| 40 | 0 | 0 | 0 | 1.12 | 39.52 | 341 | 39.46 | 342 |
| 50 | 0 | 0 | 0 | 1.12 | 39.57 | 341 | 39.51 | 341 |
| 60 | 0 | 0 | 0 | 1.12 | 39.62 | 340 | 39.56 | 341 |
| 70 | 0 | 0 | 0 | 1.12 | 39.66 | 340 | 39.6 | 340 |
| 80 | 0 | 0 | 0 | 1.12 | 39.71 | 340 | 39.65 | 340 |
| 90 | 0 | 0 | 0 | 1.12 | 39.76 | 339 | 39.7 | 340 |
| 100 | 0 | 0 | 0 | 1.12 | 39.81 | 339 | 39.75 | 339 |
| 110 | 0 | 0 | 0 | 1.12 | 39.85 | 339 | 39.79 | 339 |
| 120 | 0 | 0 | 0 | 1.12 | 39.88 | 338 | 39.84 | 339 |
| 130 | 0 | 0 | 0 | 1.12 | 39.92 | 338 | 39.89 | 338 |
| 167 | 0 | 0 | 0 | 1.12 | 40.04 | 337 | 40.03 | 337 |
| 212 | 0 | 0 | 0 | 1.12 | 40.18 | 336 | 40.17 | 336 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 75.38 | 1000 | 75.35 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 75.09 | 341 | 75.04 | 341 |
| 30 | 0 | 0 | 0 | 1.12 | 75.14 | 341 | 75.09 | 341 |
| 40 | 0 | 0 | 0 | 1.12 | 75.19 | 340 | 75.13 | 341 |
| 50 | 0 | 0 | 0 | 1.12 | 75.24 | 340 | 75.18 | 340 |
| 60 | 0 | 0 | 0 | 1.12 | 75.29 | 340 | 75.23 | 340 |
| 70 | 0 | 0 | 0 | 1.12 | 75.34 | 340 | 75.28 | 340 |
| 80 | 0 | 0 | 0 | 1.12 | 75.38 | 340 | 75.32 | 340 |
| 90 | 0 | 0 | 0 | 1.12 | 75.43 | 340 | 75.37 | 340 |
| 100 | 0 | 0 | 0 | 1.12 | 75.48 | 339 | 75.42 | 340 |
| 110 | 0 | 0 | 0 | 1.12 | 75.52 | 339 | 75.47 | 340 |
| 120 | 0 | 0 | 0 | 1.12 | 75.55 | 339 | 75.51 | 339 |
| 130 | 0 | 0 | 0 | 1.12 | 75.59 | 339 | 75.56 | 339 |
| 167 | 0 | 0 | 0 | 1.12 | 75.71 | 339 | 75.7 | 339 |
| 212 | 0 | 0 | 0 | 1.12 | 75.85 | 338 | 75.84 | 338 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-2 | 2-2 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 |
| 100.00 | 3-10 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 |
| 125.00 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 |
| 150.00 | 8-8 | 8-9 | 8-10 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 |
| 175.00 | 11-9 | 11-11 | 12-1 | 12-3 | 12-5 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 |
| 200.00 | 15-5 | 15-7 | 15-10 | 16-0 | 16-3 | 16-5 | 16-7 | 16-10 | 17-0 | 17-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-2 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 |
| 100.00 | 3-11 | 3-11 | 4-0 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 |
| 125.00 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-6 | 6-7 | 6-7 | 6-8 | 6-9 |
| 150.00 | 8-9 | 8-11 | 9-0 | 9-1 | 9-3 | 9-4 | 9-5 | 9-7 | 9-8 | 9-9 |
| 175.00 | 11-11 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-10 | 13-0 | 13-2 | 13-3 |
| 200.00 | 15-8 | 15-10 | 16-1 | 16-3 | 16-5 | 16-8 | 16-10 | 17-1 | 17-3 | 17-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.115

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-2 | 4-2 | 4-2 | 4-2 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 |
| 125.00 | 6-6 | 6-6 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 |
| 150.00 | 9-4 | 9-4 | 9-4 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-6 | 9-7 |
| 175.00 | 12-9 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 |
| 200.00 | 16-8 | 16-8 | 16-9 | 16-9 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 |
| 225.00 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-5 | 21-6 | 21-6 | 21-7 | 21-8 |
| 250.00 | 26-1 | 26-2 | 26-3 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-2 | 4-2 | 4-2 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 |
| 125.00 | 6-6 | 6-6 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 |
| 150.00 | 9-4 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 |
| 175.00 | 12-9 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 |
| 200.00 | 16-8 | 16-9 | 16-9 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 |
| 225.00 | 21-2 | 21-3 | 21-4 | 21-4 | 21-5 | 21-6 | 21-7 | 21-7 | 21-8 | 21-9 |
| 250.00 | 26-3 | 26-4 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-8 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 |
| 175.00 | 13-2 | 13-3 | 13-3 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-4 |
| 200.00 | 17-3 | 17-4 | 17-4 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-5 | 17-6 |
| 225.00 | 21-11 | 21-11 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 |
| 250.00 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-5 |
| 275.00 | 33-0 | 33-0 | 33-0 | 33-1 | 33-1 | 33-2 | 33-2 | 33-3 | 33-3 | 33-4 |
| 300.00 | 39-4 | 39-5 | 39-6 | 39-6 | 39-7 | 39-7 | 39-8 | 39-8 | 39-9 | 39-10 |
| 325.00 | 46-4 | 46-5 | 46-6 | 46-7 | 46-7 | 46-8 | 46-9 | 46-9 | 46-10 | 46-11 |
| 350.00 | 54-0 | 54-1 | 54-2 | 54-2 | 54-3 | 54-4 | 54-5 | 54-6 | 54-6 | 54-7 |
| 375.00 | 62-3 | 62-4 | 62-5 | 62-6 | 62-7 | 62-8 | 62-9 | 62-10 | 62-11 | 63-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-8 | 9-8 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-10 |
| 175.00 | 13-3 | 13-3 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-4 | 13-4 |
| 200.00 | 17-4 | 17-4 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 |
| 225.00 | 22-0 | 22-0 | 22-0 | 22-1 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 |
| 250.00 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-5 | 27-6 |
| 275.00 | 33-0 | 33-1 | 33-1 | 33-2 | 33-2 | 33-3 | 33-3 | 33-4 | 33-4 | 33-4 |
| 300.00 | 39-5 | 39-6 | 39-6 | 39-7 | 39-7 | 39-8 | 39-9 | 39-9 | 39-10 | 39-10 |
| 325.00 | 46-5 | 46-6 | 46-7 | 46-7 | 46-8 | 46-9 | 46-9 | 46-10 | 46-11 | 46-11 |
| 350.00 | 54-1 | 54-2 | 54-3 | 54-3 | 54-4 | 54-5 | 54-6 | 54-7 | 54-8 | 54-8 |
| 375.00 | 62-4 | 62-5 | 62-6 | 62-7 | 62-8 | 62-9 | 62-10 | 62-11 | 63-0 | 63-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-2 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 |
| 225.00 | 23-1 | 23-1 | 23-1 | 23-1 | 23-1 | 23-2 | 23-2 | 23-2 | 23-2 | 23-2 |
| 250.00 | 28-7 | 28-7 | 28-7 | 28-7 | 28-8 | 28-8 | 28-8 | 28-8 | 28-8 | 28-9 |
| 275.00 | 34-8 | 34-8 | 34-9 | 34-9 | 34-9 | 34-9 | 34-10 | 34-10 | 34-10 | 34-10 |
| 300.00 | 41-5 | 41-5 | 41-6 | 41-6 | 41-6 | 41-7 | 41-7 | 41-7 | 41-8 | 41-8 |
| 325.00 | 48-10 | 48-10 | 48-11 | 48-11 | 48-11 | 49-0 | 49-0 | 49-0 | 49-1 | 49-1 |
| 350.00 | 56-11 | 56-11 | 56-11 | 57-0 | 57-0 | 57-1 | 57-1 | 57-2 | 57-2 | 57-2 |
| 375.00 | 65-7 | 65-8 | 65-8 | 65-9 | 65-9 | 65-10 | 65-10 | 65-11 | 65-11 | 66-0 |
| 400.00 | 75-0 | 75-1 | 75-2 | 75-2 | 75-3 | 75-3 | 75-4 | 75-4 | 75-5 | 75-6 |
| 425.00 | 85-2 | 85-3 | 85-3 | 85-4 | 85-5 | 85-5 | 85-6 | 85-7 | 85-7 | 85-8 |
| 450.00 | 96-1 | 96-1 | 96-2 | 96-3 | 96-4 | 96-4 | 96-5 | 96-6 | 96-7 | 96-7 |
| 475.00 | 107-8 | 107-9 | 107-10 | 107-11 | 108-0 | 108-0 | 108-1 | 108-2 | 108-3 | 108-4 |
| 500.00 | 120-1 | 120-2 | 120-3 | 120-4 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 |
| 225.00 | 23-1 | 23-1 | 23-1 | 23-1 | 23-2 | 23-2 | 23-2 | 23-2 | 23-2 | 23-2 |
| 250.00 | 28-7 | 28-7 | 28-7 | 28-8 | 28-8 | 28-8 | 28-8 | 28-8 | 28-9 | 28-9 |
| 275.00 | 34-8 | 34-9 | 34-9 | 34-9 | 34-9 | 34-10 | 34-10 | 34-10 | 34-10 | 34-11 |
| 300.00 | 41-5 | 41-6 | 41-6 | 41-6 | 41-7 | 41-7 | 41-7 | 41-8 | 41-8 | 41-8 |
| 325.00 | 48-10 | 48-11 | 48-11 | 48-11 | 49-0 | 49-0 | 49-0 | 49-1 | 49-1 | 49-2 |
| 350.00 | 56-11 | 56-11 | 57-0 | 57-0 | 57-1 | 57-1 | 57-2 | 57-2 | 57-2 | 57-3 |
| 375.00 | 65-8 | 65-8 | 65-9 | 65-9 | 65-10 | 65-10 | 65-11 | 65-11 | 66-0 | 66-0 |
| 400.00 | 75-1 | 75-2 | 75-2 | 75-3 | 75-3 | 75-4 | 75-5 | 75-5 | 75-6 | 75-6 |
| 425.00 | 85-3 | 85-4 | 85-4 | 85-5 | 85-6 | 85-6 | 85-7 | 85-8 | 85-8 | 85-9 |
| 450.00 | 96-1 | 96-2 | 96-3 | 96-4 | 96-5 | 96-5 | 96-6 | 96-7 | 96-8 | 96-8 |
| 475.00 | 107-9 | 107-10 | 107-11 | 108-0 | 108-1 | 108-1 | 108-2 | 108-3 | 108-4 | 108-5 |
| 500.00 | 120-2 | 120-3 | 120-4 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-10 | 120-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 2.79 | 1479 | 2.75 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 2.25 | 623 | 2.13 | 658 |
| 30 | 0 | 0 | 0 | 1.12 | 2.33 | 602 | 2.21 | 634 |
| 40 | 0 | 0 | 0 | 1.12 | 2.41 | 582 | 2.29 | 613 |
| 50 | 0 | 0 | 0 | 1.12 | 2.49 | 565 | 2.37 | 593 |
| 60 | 0 | 0 | 0 | 1.12 | 2.56 | 548 | 2.44 | 575 |
| 70 | 0 | 0 | 0 | 1.12 | 2.63 | 533 | 2.51 | 559 |
| 80 | 0 | 0 | 0 | 1.12 | 2.71 | 519 | 2.58 | 543 |
| 90 | 0 | 0 | 0 | 1.12 | 2.78 | 506 | 2.65 | 529 |
| 100 | 0 | 0 | 0 | 1.12 | 2.84 | 494 | 2.72 | 516 |
| 110 | 0 | 0 | 0 | 1.12 | 2.91 | 483 | 2.79 | 503 |
| 120 | 0 | 0 | 0 | 1.12 | 2.98 | 472 | 2.86 | 492 |
| 130 | 0 | 0 | 0 | 1.12 | 3.03 | 464 | 2.92 | 481 |
| 167 | 0 | 0 | 0 | 1.12 | 3.17 | 443 | 3.15 | 446 |
| 212 | 0 | 0 | 0 | 1.12 | 3.34 | 421 | 3.33 | 423 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 11.16 | 1495 | 11.12 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 10.62 | 533 | 10.5 | 539 |
| 30 | 0 | 0 | 0 | 1.12 | 10.69 | 530 | 10.58 | 535 |
| 40 | 0 | 0 | 0 | 1.12 | 10.77 | 526 | 10.65 | 532 |
| 50 | 0 | 0 | 0 | 1.12 | 10.84 | 523 | 10.73 | 528 |
| 60 | 0 | 0 | 0 | 1.12 | 10.92 | 519 | 10.8 | 525 |
| 70 | 0 | 0 | 0 | 1.12 | 10.99 | 516 | 10.87 | 521 |
| 80 | 0 | 0 | 0 | 1.12 | 11.06 | 512 | 10.94 | 518 |
| 90 | 0 | 0 | 0 | 1.12 | 11.14 | 509 | 11.02 | 515 |
| 100 | 0 | 0 | 0 | 1.12 | 11.21 | 506 | 11.09 | 511 |
| 110 | 0 | 0 | 0 | 1.12 | 11.28 | 503 | 11.16 | 508 |
| 120 | 0 | 0 | 0 | 1.12 | 11.35 | 500 | 11.23 | 505 |
| 130 | 0 | 0 | 0 | 1.12 | 11.42 | 497 | 11.3 | 502 |
| 167 | 0 | 0 | 0 | 1.12 | 11.6 | 489 | 11.56 | 491 |
| 212 | 0 | 0 | 0 | 1.12 | 11.8 | 481 | 11.79 | 482 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 25.46 | 1498 | 25.42 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 24.92 | 520 | 24.81 | 522 |
| 30 | 0 | 0 | 0 | 1.12 | 25 | 518 | 24.89 | 520 |
| 40 | 0 | 0 | 0 | 1.12 | 25.07 | 517 | 24.96 | 519 |
| 50 | 0 | 0 | 0 | 1.12 | 25.14 | 515 | 25.03 | 517 |
| 60 | 0 | 0 | 0 | 1.12 | 25.22 | 514 | 25.1 | 516 |
| 70 | 0 | 0 | 0 | 1.12 | 25.29 | 512 | 25.18 | 515 |
| 80 | 0 | 0 | 0 | 1.12 | 25.37 | 511 | 25.25 | 513 |
| 90 | 0 | 0 | 0 | 1.12 | 25.44 | 510 | 25.32 | 512 |
| 100 | 0 | 0 | 0 | 1.12 | 25.51 | 508 | 25.39 | 510 |
| 110 | 0 | 0 | 0 | 1.12 | 25.59 | 507 | 25.46 | 509 |
| 120 | 0 | 0 | 0 | 1.12 | 25.66 | 505 | 25.53 | 508 |
| 130 | 0 | 0 | 0 | 1.12 | 25.73 | 504 | 25.61 | 506 |
| 167 | 0 | 0 | 0 | 1.12 | 25.92 | 501 | 25.87 | 502 |
| 212 | 0 | 0 | 0 | 1.12 | 26.13 | 497 | 26.11 | 497 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 46.34 | 1499 | 46.3 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 45.8 | 515 | 45.69 | 516 |
| 30 | 0 | 0 | 0 | 1.12 | 45.87 | 514 | 45.76 | 515 |
| 40 | 0 | 0 | 0 | 1.12 | 45.94 | 513 | 45.83 | 515 |
| 50 | 0 | 0 | 0 | 1.12 | 46.02 | 513 | 45.91 | 514 |
| 60 | 0 | 0 | 0 | 1.12 | 46.09 | 512 | 45.98 | 513 |
| 70 | 0 | 0 | 0 | 1.12 | 46.17 | 511 | 46.05 | 512 |
| 80 | 0 | 0 | 0 | 1.12 | 46.24 | 510 | 46.12 | 512 |
| 90 | 0 | 0 | 0 | 1.12 | 46.31 | 510 | 46.19 | 511 |
| 100 | 0 | 0 | 0 | 1.12 | 46.39 | 509 | 46.26 | 510 |
| 110 | 0 | 0 | 0 | 1.12 | 46.46 | 508 | 46.34 | 509 |
| 120 | 0 | 0 | 0 | 1.12 | 46.53 | 508 | 46.41 | 509 |
| 130 | 0 | 0 | 0 | 1.12 | 46.6 | 507 | 46.48 | 508 |
| 167 | 0 | 0 | 0 | 1.12 | 46.79 | 505 | 46.74 | 505 |
| 212 | 0 | 0 | 0 | 1.12 | 47.01 | 503 | 47 | 503 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 74.88 | 1499 | 74.84 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 74.34 | 513 | 74.23 | 513 |
| 30 | 0 | 0 | 0 | 1.12 | 74.41 | 512 | 74.31 | 513 |
| 40 | 0 | 0 | 0 | 1.12 | 74.49 | 512 | 74.38 | 513 |
| 50 | 0 | 0 | 0 | 1.12 | 74.56 | 511 | 74.45 | 512 |
| 60 | 0 | 0 | 0 | 1.12 | 74.63 | 511 | 74.52 | 512 |
| 70 | 0 | 0 | 0 | 1.12 | 74.71 | 511 | 74.59 | 511 |
| 80 | 0 | 0 | 0 | 1.12 | 74.78 | 510 | 74.66 | 511 |
| 90 | 0 | 0 | 0 | 1.12 | 74.85 | 510 | 74.74 | 510 |
| 100 | 0 | 0 | 0 | 1.12 | 74.93 | 509 | 74.81 | 510 |
| 110 | 0 | 0 | 0 | 1.12 | 75 | 509 | 74.88 | 510 |
| 120 | 0 | 0 | 0 | 1.12 | 75.07 | 509 | 74.95 | 509 |
| 130 | 0 | 0 | 0 | 1.12 | 75.15 | 508 | 75.02 | 509 |
| 167 | 0 | 0 | 0 | 1.12 | 75.34 | 507 | 75.29 | 507 |
| 212 | 0 | 0 | 0 | 1.12 | 75.55 | 506 | 75.54 | 506 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-2 | 1-3 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 |
| 100.00 | 2-2 | 2-3 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 |
| 125.00 | 3-4 | 3-5 | 3-7 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 |
| 150.00 | 4-10 | 5-0 | 5-2 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 |
| 175.00 | 6-6 | 6-9 | 7-0 | 7-3 | 7-6 | 7-9 | 7-11 | 8-2 | 8-4 | 8-7 |
| 200.00 | 8-7 | 8-10 | 9-2 | 9-6 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-3 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 |
| 100.00 | 2-3 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-8 | 2-9 | 2-10 | 2-11 |
| 125.00 | 3-6 | 3-8 | 3-9 | 3-11 | 4-0 | 4-1 | 4-3 | 4-4 | 4-5 | 4-7 |
| 150.00 | 5-1 | 5-3 | 5-5 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 |
| 175.00 | 6-11 | 7-2 | 7-5 | 7-8 | 7-10 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 |
| 200.00 | 9-0 | 9-4 | 9-8 | 10-0 | 10-3 | 10-7 | 10-10 | 11-2 | 11-5 | 11-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-7 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-9 |
| 125.00 | 4-1 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 |
| 150.00 | 5-11 | 5-11 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 |
| 175.00 | 8-0 | 8-1 | 8-2 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 |
| 200.00 | 10-6 | 10-7 | 10-8 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 |
| 225.00 | 13-4 | 13-5 | 13-6 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 |
| 250.00 | 16-5 | 16-7 | 16-8 | 16-10 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 | 17-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-8 | 2-8 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 |
| 125.00 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-5 |
| 150.00 | 6-0 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 |
| 175.00 | 8-1 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 |
| 200.00 | 10-7 | 10-8 | 10-9 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-2 | 11-3 |
| 225.00 | 13-5 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-4 |
| 250.00 | 16-7 | 16-9 | 16-10 | 17-0 | 17-1 | 17-3 | 17-4 | 17-5 | 17-7 | 17-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.123

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 |
| 175.00 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 |
| 200.00 | 11-0 | 11-0 | 11-0 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-3 | 11-3 |
| 225.00 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 |
| 250.00 | 17-2 | 17-3 | 17-3 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 |
| 275.00 | 20-10 | 20-11 | 20-11 | 21-0 | 21-1 | 21-1 | 21-2 | 21-3 | 21-4 | 21-4 |
| 300.00 | 24-10 | 24-11 | 25-0 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 |
| 325.00 | 29-2 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 |
| 350.00 | 33-11 | 34-0 | 34-1 | 34-2 | 34-3 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 |
| 375.00 | 39-0 | 39-1 | 39-2 | 39-4 | 39-5 | 39-6 | 39-8 | 39-9 | 39-11 | 40-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-2 | 6-2 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 |
| 175.00 | 8-5 | 8-5 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 |
| 200.00 | 11-0 | 11-1 | 11-1 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 |
| 225.00 | 14-0 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-3 | 14-4 |
| 250.00 | 17-3 | 17-4 | 17-4 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 | 17-9 |
| 275.00 | 20-11 | 21-0 | 21-0 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-5 | 21-6 |
| 300.00 | 24-11 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-4 | 25-5 | 25-6 | 25-7 |
| 325.00 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 |
| 350.00 | 34-0 | 34-2 | 34-3 | 34-4 | 34-5 | 34-6 | 34-8 | 34-9 | 34-10 | 34-11 |
| 375.00 | 39-2 | 39-3 | 39-4 | 39-6 | 39-7 | 39-9 | 39-10 | 40-0 | 40-1 | 40-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-3 | 11-4 | 11-4 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-5 |
| 225.00 | 14-3 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 |
| 250.00 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 |
| 275.00 | 21-5 | 21-5 | 21-6 | 21-6 | 21-6 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 |
| 300.00 | 25-6 | 25-7 | 25-7 | 25-8 | 25-8 | 25-9 | 25-9 | 25-9 | 25-10 | 25-10 |
| 325.00 | 30-0 | 30-0 | 30-1 | 30-2 | 30-2 | 30-3 | 30-3 | 30-4 | 30-4 | 30-5 |
| 350.00 | 34-10 | 34-11 | 34-11 | 35-0 | 35-1 | 35-1 | 35-2 | 35-3 | 35-3 | 35-4 |
| 375.00 | 40-1 | 40-2 | 40-2 | 40-3 | 40-4 | 40-5 | 40-5 | 40-6 | 40-7 | 40-8 |
| 400.00 | 45-8 | 45-9 | 45-10 | 45-11 | 46-0 | 46-1 | 46-1 | 46-2 | 46-3 | 46-4 |
| 425.00 | 51-8 | 51-9 | 51-10 | 51-11 | 52-0 | 52-1 | 52-2 | 52-3 | 52-4 | 52-5 |
| 450.00 | 58-1 | 58-2 | 58-3 | 58-4 | 58-5 | 58-7 | 58-8 | 58-9 | 58-10 | 58-11 |
| 475.00 | 64-10 | 65-0 | 65-1 | 65-2 | 65-3 | 65-5 | 65-6 | 65-7 | 65-8 | 65-10 |
| 500.00 | 72-1 | 72-2 | 72-4 | 72-5 | 72-6 | 72-8 | 72-9 | 72-10 | 73-0 | 73-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-4 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-5 | 11-5 | 11-6 |
| 225.00 | 14-4 | 14-4 | 14-4 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-6 |
| 250.00 | 17-8 | 17-9 | 17-9 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 |
| 275.00 | 21-5 | 21-6 | 21-6 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 |
| 300.00 | 25-7 | 25-7 | 25-8 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 |
| 325.00 | 30-1 | 30-1 | 30-2 | 30-2 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 | 30-6 |
| 350.00 | 34-11 | 35-0 | 35-0 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-4 | 35-5 |
| 375.00 | 40-2 | 40-3 | 40-4 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 | 40-8 | 40-9 |
| 400.00 | 45-10 | 45-10 | 45-11 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-5 |
| 425.00 | 51-10 | 51-11 | 52-0 | 52-1 | 52-2 | 52-3 | 52-4 | 52-5 | 52-6 | 52-7 |
| 450.00 | 58-3 | 58-4 | 58-5 | 58-6 | 58-7 | 58-8 | 58-9 | 58-11 | 59-0 | 59-1 |
| 475.00 | 65-0 | 65-2 | 65-3 | 65-4 | 65-5 | 65-7 | 65-8 | 65-9 | 65-10 | 66-0 |
| 500.00 | 72-3 | 72-4 | 72-6 | 72-7 | 72-9 | 72-10 | 72-11 | 73-1 | 73-2 | 73-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-2 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 |
| 275.00 | 22-0 | 22-1 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-2 | 22-3 |
| 300.00 | 26-3 | 26-3 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-5 | 26-6 |
| 325.00 | 30-10 | 30-11 | 30-11 | 30-11 | 31-0 | 31-0 | 31-0 | 31-1 | 31-1 | 31-2 |
| 350.00 | 35-10 | 35-11 | 35-11 | 36-0 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 |
| 375.00 | 41-3 | 41-4 | 41-4 | 41-4 | 41-5 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 |
| 400.00 | 47-0 | 47-1 | 47-2 | 47-2 | 47-3 | 47-3 | 47-4 | 47-4 | 47-5 | 47-5 |
| 425.00 | 53-3 | 53-3 | 53-4 | 53-5 | 53-5 | 53-6 | 53-6 | 53-7 | 53-8 | 53-8 |
| 450.00 | 59-10 | 59-10 | 59-11 | 60-0 | 60-1 | 60-1 | 60-2 | 60-3 | 60-3 | 60-4 |
| 475.00 | 66-10 | 66-11 | 66-11 | 67-0 | 67-1 | 67-2 | 67-2 | 67-3 | 67-4 | 67-5 |
| 500.00 | 74-3 | 74-4 | 74-5 | 74-5 | 74-6 | 74-7 | 74-8 | 74-9 | 74-10 | 74-11 |
| 525.00 | 82-1 | 82-2 | 82-3 | 82-4 | 82-5 | 82-6 | 82-7 | 82-8 | 82-9 | 82-9 |
| 550.00 | 90-4 | 90-5 | 90-6 | 90-7 | 90-8 | 90-9 | 90-10 | 91-0 | 91-1 | 91-2 |
| 575.00 | 99-1 | 99-2 | 99-3 | 99-4 | 99-5 | 99-6 | 99-8 | 99-9 | 99-10 | 99-11 |
| 600.00 | 108-2 | 108-4 | 108-5 | 108-6 | 108-8 | 108-9 | 108-10 | 108-11 | 109-1 | 109-2 |
| 625.00 | 117-10 | 117-11 | 118-0 | 118-2 | 118-3 | 118-5 | 118-6 | 118-8 | 118-9 | 118-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-4 |
| 275.00 | 22-1 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 |
| 300.00 | 26-3 | 26-4 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-6 | 26-6 | 26-6 |
| 325.00 | 30-11 | 30-11 | 31-0 | 31-0 | 31-0 | 31-1 | 31-1 | 31-1 | 31-2 | 31-2 |
| 350.00 | 35-11 | 35-11 | 36-0 | 36-0 | 36-1 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 |
| 375.00 | 41-4 | 41-4 | 41-5 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 | 41-8 | 41-8 |
| 400.00 | 47-1 | 47-2 | 47-2 | 47-3 | 47-3 | 47-4 | 47-5 | 47-5 | 47-6 | 47-6 |
| 425.00 | 53-4 | 53-4 | 53-5 | 53-5 | 53-6 | 53-7 | 53-7 | 53-8 | 53-9 | 53-9 |
| 450.00 | 59-11 | 59-11 | 60-0 | 60-1 | 60-2 | 60-2 | 60-3 | 60-4 | 60-4 | 60-5 |
| 475.00 | 66-11 | 67-0 | 67-1 | 67-1 | 67-2 | 67-3 | 67-4 | 67-4 | 67-5 | 67-6 |
| 500.00 | 74-4 | 74-5 | 74-6 | 74-7 | 74-8 | 74-8 | 74-9 | 74-10 | 74-11 | 75-0 |
| 525.00 | 82-2 | 82-3 | 82-4 | 82-5 | 82-6 | 82-7 | 82-8 | 82-9 | 82-10 | 82-11 |
| 550.00 | 90-6 | 90-7 | 90-8 | 90-9 | 90-10 | 90-11 | 91-0 | 91-1 | 91-2 | 91-3 |
| 575.00 | 99-2 | 99-4 | 99-5 | 99-6 | 99-7 | 99-8 | 99-10 | 99-11 | 100-0 | 100-1 |
| 600.00 | 108-4 | 108-6 | 108-7 | 108-8 | 108-10 | 108-11 | 109-0 | 109-2 | 109-3 | 109-4 |
| 625.00 | 118-0 | 118-1 | 118-3 | 118-4 | 118-6 | 118-7 | 118-8 | 118-10 | 118-11 | 119-1 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 2.12 | 1951 | 2.06 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 1.3 | 1075 | 1.14 | 1228 |
| 30 | 0 | 0 | 0 | 1.12 | 1.4 | 998 | 1.23 | 1143 |
| 40 | 0 | 0 | 0 | 1.12 | 1.5 | 933 | 1.31 | 1067 |
| 50 | 0 | 0 | 0 | 1.12 | 1.6 | 875 | 1.4 | 999 |
| 60 | 0 | 0 | 0 | 1.12 | 1.7 | 826 | 1.49 | 938 |
| 70 | 0 | 0 | 0 | 1.12 | 1.79 | 783 | 1.58 | 885 |
| 80 | 0 | 0 | 0 | 1.12 | 1.88 | 744 | 1.67 | 837 |
| 90 | 0 | 0 | 0 | 1.12 | 1.97 | 711 | 1.76 | 795 |
| 100 | 0 | 0 | 0 | 1.12 | 2.06 | 681 | 1.85 | 758 |
| 110 | 0 | 0 | 0 | 1.12 | 2.15 | 654 | 1.94 | 724 |
| 120 | 0 | 0 | 0 | 1.12 | 2.23 | 629 | 2.02 | 694 |
| 130 | 0 | 0 | 0 | 1.12 | 2.31 | 607 | 2.1 | 667 |
| 167 | 0 | 0 | 0 | 1.12 | 2.49 | 563 | 2.39 | 586 |
| 212 | 0 | 0 | 0 | 1.12 | 2.69 | 522 | 2.67 | 527 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 8.33 | 1991 | 8.29 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 7.46 | 755 | 7.27 | 774 |
| 30 | 0 | 0 | 0 | 1.12 | 7.57 | 744 | 7.38 | 763 |
| 40 | 0 | 0 | 0 | 1.12 | 7.67 | 734 | 7.48 | 753 |
| 50 | 0 | 0 | 0 | 1.12 | 7.77 | 725 | 7.58 | 743 |
| 60 | 0 | 0 | 0 | 1.12 | 7.87 | 716 | 7.67 | 734 |
| 70 | 0 | 0 | 0 | 1.12 | 7.97 | 707 | 7.77 | 725 |
| 80 | 0 | 0 | 0 | 1.12 | 8.07 | 699 | 7.87 | 716 |
| 90 | 0 | 0 | 0 | 1.12 | 8.16 | 690 | 7.96 | 708 |
| 100 | 0 | 0 | 0 | 1.12 | 8.26 | 683 | 8.06 | 699 |
| 110 | 0 | 0 | 0 | 1.12 | 8.36 | 675 | 8.15 | 691 |
| 120 | 0 | 0 | 0 | 1.12 | 8.45 | 668 | 8.25 | 684 |
| 130 | 0 | 0 | 0 | 1.12 | 8.54 | 660 | 8.34 | 676 |
| 167 | 0 | 0 | 0 | 1.12 | 8.84 | 639 | 8.68 | 650 |
| 212 | 0 | 0 | 0 | 1.12 | 9.09 | 621 | 9.07 | 623 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 18.86 | 1996 | 18.83 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 17.99 | 710 | 17.81 | 717 |
| 30 | 0 | 0 | 0 | 1.12 | 18.1 | 706 | 17.91 | 714 |
| 40 | 0 | 0 | 0 | 1.12 | 18.2 | 703 | 18.01 | 710 |
| 50 | 0 | 0 | 0 | 1.12 | 18.3 | 699 | 18.11 | 706 |
| 60 | 0 | 0 | 0 | 1.12 | 18.39 | 695 | 18.2 | 702 |
| 70 | 0 | 0 | 0 | 1.12 | 18.49 | 692 | 18.3 | 699 |
| 80 | 0 | 0 | 0 | 1.12 | 18.59 | 688 | 18.4 | 695 |
| 90 | 0 | 0 | 0 | 1.12 | 18.69 | 685 | 18.49 | 692 |
| 100 | 0 | 0 | 0 | 1.12 | 18.79 | 681 | 18.59 | 688 |
| 110 | 0 | 0 | 0 | 1.12 | 18.88 | 678 | 18.68 | 685 |
| 120 | 0 | 0 | 0 | 1.12 | 18.98 | 675 | 18.78 | 681 |
| 130 | 0 | 0 | 0 | 1.12 | 19.08 | 671 | 18.87 | 678 |
| 167 | 0 | 0 | 0 | 1.12 | 19.4 | 660 | 19.22 | 666 |
| 212 | 0 | 0 | 0 | 1.12 | 19.68 | 651 | 19.64 | 653 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 33.93 | 1998 | 33.9 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 33.07 | 696 | 32.89 | 700 |
| 30 | 0 | 0 | 0 | 1.12 | 33.17 | 694 | 32.99 | 698 |
| 40 | 0 | 0 | 0 | 1.12 | 33.27 | 692 | 33.08 | 696 |
| 50 | 0 | 0 | 0 | 1.12 | 33.37 | 690 | 33.18 | 694 |
| 60 | 0 | 0 | 0 | 1.12 | 33.46 | 688 | 33.28 | 692 |
| 70 | 0 | 0 | 0 | 1.12 | 33.56 | 686 | 33.37 | 690 |
| 80 | 0 | 0 | 0 | 1.12 | 33.66 | 684 | 33.47 | 688 |
| 90 | 0 | 0 | 0 | 1.12 | 33.76 | 682 | 33.56 | 686 |
| 100 | 0 | 0 | 0 | 1.12 | 33.86 | 681 | 33.66 | 684 |
| 110 | 0 | 0 | 0 | 1.12 | 33.95 | 679 | 33.76 | 683 |
| 120 | 0 | 0 | 0 | 1.12 | 34.05 | 677 | 33.85 | 681 |
| 130 | 0 | 0 | 0 | 1.12 | 34.15 | 675 | 33.95 | 679 |
| 167 | 0 | 0 | 0 | 1.12 | 34.49 | 669 | 34.3 | 672 |
| 212 | 0 | 0 | 0 | 1.12 | 34.77 | 664 | 34.72 | 665 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS



TABLE OF CONTENTS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 18.5 | 0 | 3.295 | 53.92 | 1999 | 53.88 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 53.05 | 690 | 52.88 | 692 |
| 30 | 0 | 0 | 0 | 1.12 | 53.15 | 688 | 52.97 | 690 |
| 40 | 0 | 0 | 0 | 1.12 | 53.25 | 687 | 53.07 | 689 |
| 50 | 0 | 0 | 0 | 1.12 | 53.35 | 686 | 53.17 | 688 |
| 60 | 0 | 0 | 0 | 1.12 | 53.45 | 685 | 53.26 | 687 |
| 70 | 0 | 0 | 0 | 1.12 | 53.55 | 684 | 53.36 | 686 |
| 80 | 0 | 0 | 0 | 1.12 | 53.65 | 683 | 53.45 | 685 |
| 90 | 0 | 0 | 0 | 1.12 | 53.74 | 681 | 53.55 | 684 |
| 100 | 0 | 0 | 0 | 1.12 | 53.84 | 680 | 53.65 | 683 |
| 110 | 0 | 0 | 0 | 1.12 | 53.94 | 679 | 53.74 | 681 |
| 120 | 0 | 0 | 0 | 1.12 | 54.04 | 678 | 53.84 | 680 |
| 130 | 0 | 0 | 0 | 1.12 | 54.13 | 677 | 53.93 | 679 |
| 167 | 0 | 0 | 0 | 1.12 | 54.48 | 673 | 54.28 | 675 |
| 212 | 0 | 0 | 0 | 1.12 | 54.77 | 670 | 54.71 | 670 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-8 | 0-8 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 |
| 100.00 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 |
| 125.00 | 1-9 | 1-11 | 2-1 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 |
| 150.00 | 2-7 | 2-9 | 2-11 | 3-2 | 3-4 | 3-7 | 3-9 | 4-0 | 4-2 | 4-4 |
| 175.00 | 3-6 | 3-9 | 4-0 | 4-4 | 4-7 | 4-10 | 5-2 | 5-5 | 5-8 | 5-11 |
| 200.00 | 4-7 | 4-11 | 5-3 | 5-7 | 6-0 | 6-4 | 6-8 | 7-1 | 7-5 | 7-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-1 | 1-1 | 1-2 | 1-2 |
| 100.00 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-11 | 2-0 | 2-1 | 2-2 |
| 125.00 | 2-0 | 2-2 | 2-4 | 2-6 | 2-8 | 2-10 | 2-11 | 3-1 | 3-3 | 3-4 |
| 150.00 | 2-11 | 3-2 | 3-5 | 3-7 | 3-10 | 4-0 | 4-3 | 4-5 | 4-8 | 4-10 |
| 175.00 | 4-0 | 4-4 | 4-7 | 4-11 | 5-2 | 5-6 | 5-9 | 6-1 | 6-4 | 6-7 |
| 200.00 | 5-3 | 5-7 | 6-0 | 6-5 | 6-10 | 7-2 | 7-7 | 7-11 | 8-3 | 8-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 |
| 125.00 | 2-10 | 2-11 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 |
| 150.00 | 4-1 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 |
| 175.00 | 5-7 | 5-8 | 5-9 | 5-10 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 |
| 200.00 | 7-3 | 7-5 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 |
| 225.00 | 9-3 | 9-4 | 9-6 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-2 | 10-4 |
| 250.00 | 11-5 | 11-6 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-7 | 12-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100.00 | 1-10 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 |
| 125.00 | 2-11 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 |
| 150.00 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 |
| 175.00 | 5-9 | 5-9 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 |
| 200.00 | 7-6 | 7-7 | 7-8 | 7-9 | 7-10 | 8-0 | 8-1 | 8-2 | 8-3 | 8-4 |
| 225.00 | 9-5 | 9-7 | 9-9 | 9-10 | 10-0 | 10-1 | 10-3 | 10-4 | 10-6 | 10-7 |
| 250.00 | 11-8 | 11-10 | 12-0 | 12-2 | 12-4 | 12-6 | 12-7 | 12-9 | 12-11 | 13-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-5 | 4-6 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 |
| 175.00 | 6-1 | 6-1 | 6-1 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 |
| 200.00 | 7-11 | 7-11 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 |
| 225.00 | 10-0 | 10-1 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 |
| 250.00 | 12-4 | 12-5 | 12-6 | 12-7 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 |
| 275.00 | 14-11 | 15-0 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 |
| 300.00 | 17-10 | 17-11 | 18-0 | 18-1 | 18-2 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 |
| 325.00 | 20-11 | 21-0 | 21-2 | 21-3 | 21-5 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 |
| 350.00 | 24-3 | 24-5 | 24-7 | 24-8 | 24-10 | 24-11 | 25-1 | 25-3 | 25-4 | 25-6 |
| 375.00 | 27-11 | 28-1 | 28-3 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-8 |
| 175.00 | 6-1 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 |
| 200.00 | 8-0 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 |
| 225.00 | 10-1 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-7 | 10-7 |
| 250.00 | 12-6 | 12-7 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 |
| 275.00 | 15-1 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 |
| 300.00 | 18-0 | 18-1 | 18-2 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-11 |
| 325.00 | 21-2 | 21-3 | 21-4 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 | 22-1 | 22-2 |
| 350.00 | 24-6 | 24-8 | 24-10 | 24-11 | 25-1 | 25-3 | 25-4 | 25-6 | 25-7 | 25-9 |
| 375.00 | 28-2 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-2 | 29-3 | 29-5 | 29-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.132

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-2 | 8-2 | 8-3 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 |
| 225.00 | 10-4 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 |
| 250.00 | 12-9 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 |
| 275.00 | 15-6 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 | 15-10 | 15-11 |
| 300.00 | 18-5 | 18-6 | 18-6 | 18-7 | 18-8 | 18-8 | 18-9 | 18-10 | 18-10 | 18-11 |
| 325.00 | 21-8 | 21-9 | 21-9 | 21-10 | 21-11 | 22-0 | 22-0 | 22-1 | 22-2 | 22-3 |
| 350.00 | 25-2 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-9 |
| 375.00 | 28-10 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 |
| 400.00 | 32-11 | 33-0 | 33-1 | 33-2 | 33-3 | 33-4 | 33-6 | 33-7 | 33-8 | 33-9 |
| 425.00 | 37-2 | 37-3 | 37-5 | 37-6 | 37-7 | 37-9 | 37-10 | 37-11 | 38-1 | 38-2 |
| 450.00 | 41-9 | 41-10 | 42-0 | 42-1 | 42-3 | 42-4 | 42-6 | 42-7 | 42-8 | 42-10 |
| 475.00 | 46-7 | 46-8 | 46-10 | 47-0 | 47-1 | 47-3 | 47-4 | 47-6 | 47-8 | 47-9 |
| 500.00 | 51-8 | 51-10 | 51-11 | 52-1 | 52-3 | 52-5 | 52-7 | 52-9 | 52-10 | 53-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-3 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 |
| 225.00 | 10-5 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 |
| 250.00 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 |
| 275.00 | 15-7 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 | 15-10 | 15-11 | 15-11 | 16-0 |
| 300.00 | 18-6 | 18-7 | 18-8 | 18-8 | 18-9 | 18-10 | 18-10 | 18-11 | 19-0 | 19-0 |
| 325.00 | 21-9 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-2 | 22-3 | 22-3 | 22-4 |
| 350.00 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-9 | 25-10 | 25-11 |
| 375.00 | 29-0 | 29-1 | 29-2 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 |
| 400.00 | 33-1 | 33-2 | 33-3 | 33-4 | 33-6 | 33-7 | 33-8 | 33-9 | 33-10 | 33-11 |
| 425.00 | 37-4 | 37-6 | 37-7 | 37-9 | 37-10 | 37-11 | 38-1 | 38-2 | 38-3 | 38-5 |
| 450.00 | 41-11 | 42-1 | 42-2 | 42-4 | 42-5 | 42-7 | 42-8 | 42-10 | 42-11 | 43-1 |
| 475.00 | 46-10 | 46-11 | 47-1 | 47-3 | 47-4 | 47-6 | 47-8 | 47-9 | 47-11 | 48-1 |
| 500.00 | 51-11 | 52-1 | 52-3 | 52-5 | 52-7 | 52-9 | 52-10 | 53-0 | 53-2 | 53-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-1 | 13-1 | 13-1 | 13-2 | 13-2 | 13-2 | 13-3 | 13-3 | 13-3 | 13-3 |
| 275.00 | 15-10 | 15-10 | 15-11 | 15-11 | 15-11 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 |
| 300.00 | 18-10 | 18-11 | 18-11 | 19-0 | 19-0 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 |
| 325.00 | 22-2 | 22-2 | 22-3 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 |
| 350.00 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 | 26-0 | 26-1 | 26-1 | 26-2 |
| 375.00 | 29-7 | 29-7 | 29-8 | 29-9 | 29-9 | 29-10 | 29-10 | 29-11 | 30-0 | 30-0 |
| 400.00 | 33-8 | 33-9 | 33-9 | 33-10 | 33-11 | 34-0 | 34-0 | 34-1 | 34-2 | 34-3 |
| 425.00 | 38-1 | 38-1 | 38-2 | 38-3 | 38-4 | 38-5 | 38-6 | 38-6 | 38-7 | 38-8 |
| 450.00 | 42-9 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 |
| 475.00 | 47-8 | 47-9 | 47-10 | 47-11 | 48-0 | 48-1 | 48-2 | 48-3 | 48-4 | 48-5 |
| 500.00 | 52-11 | 53-0 | 53-1 | 53-2 | 53-3 | 53-4 | 53-5 | 53-7 | 53-8 | 53-9 |
| 525.00 | 58-5 | 58-6 | 58-7 | 58-8 | 58-10 | 58-11 | 59-0 | 59-2 | 59-3 | 59-4 |
| 550.00 | 64-2 | 64-4 | 64-5 | 64-6 | 64-8 | 64-9 | 64-11 | 65-0 | 65-1 | 65-3 |
| 575.00 | 70-3 | 70-5 | 70-6 | 70-8 | 70-9 | 70-11 | 71-0 | 71-2 | 71-3 | 71-5 |
| 600.00 | 76-8 | 76-9 | 76-11 | 77-1 | 77-2 | 77-4 | 77-6 | 77-7 | 77-9 | 77-11 |
| 625.00 | 83-4 | 83-5 | 83-7 | 83-9 | 83-11 | 84-1 | 84-3 | 84-4 | 84-6 | 84-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-1 | 13-2 | 13-2 | 13-2 | 13-3 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 |
| 275.00 | 15-11 | 15-11 | 15-11 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-2 |
| 300.00 | 18-11 | 18-11 | 19-0 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-2 | 19-3 |
| 325.00 | 22-3 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 | 22-7 | 22-7 |
| 350.00 | 25-10 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-2 | 26-2 | 26-3 |
| 375.00 | 29-8 | 29-9 | 29-9 | 29-10 | 29-10 | 29-11 | 30-0 | 30-0 | 30-1 | 30-2 |
| 400.00 | 33-9 | 33-10 | 33-11 | 34-0 | 34-0 | 34-1 | 34-2 | 34-3 | 34-3 | 34-4 |
| 425.00 | 38-2 | 38-3 | 38-4 | 38-5 | 38-6 | 38-6 | 38-7 | 38-8 | 38-9 | 38-10 |
| 450.00 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 43-7 |
| 475.00 | 47-10 | 47-11 | 48-0 | 48-1 | 48-2 | 48-3 | 48-4 | 48-5 | 48-6 | 48-7 |
| 500.00 | 53-1 | 53-2 | 53-3 | 53-4 | 53-5 | 53-7 | 53-8 | 53-9 | 53-10 | 53-11 |
| 525.00 | 58-7 | 58-8 | 58-10 | 58-11 | 59-0 | 59-2 | 59-3 | 59-4 | 59-5 | 59-7 |
| 550.00 | 64-5 | 64-6 | 64-8 | 64-9 | 64-10 | 65-0 | 65-1 | 65-3 | 65-4 | 65-6 |
| 575.00 | 70-6 | 70-8 | 70-9 | 70-11 | 71-0 | 71-2 | 71-3 | 71-5 | 71-7 | 71-8 |
| 600.00 | 76-11 | 77-0 | 77-2 | 77-4 | 77-6 | 77-7 | 77-9 | 77-11 | 78-1 | 78-2 |
| 625.00 | 83-7 | 83-9 | 83-11 | 84-1 | 84-3 | 84-4 | 84-6 | 84-8 | 84-10 | 85-0 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 4.17 | 994 | 4.15 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 3.93 | 358 | 3.88 | 363 |
| 30 | 0 | 0 | 0 | 1.12 | 4.08 | 345 | 4.02 | 350 |
| 40 | 0 | 0 | 0 | 1.12 | 4.13 | 341 | 4.07 | 346 |
| 50 | 0 | 0 | 0 | 1.12 | 4.18 | 337 | 4.12 | 342 |
| 60 | 0 | 0 | 0 | 1.12 | 4.23 | 334 | 4.17 | 338 |
| 70 | 0 | 0 | 0 | 1.12 | 4.27 | 330 | 4.21 | 335 |
| 80 | 0 | 0 | 0 | 1.12 | 4.32 | 327 | 4.26 | 331 |
| 90 | 0 | 0 | 0 | 1.12 | 4.37 | 323 | 4.31 | 327 |
| 100 | 0 | 0 | 0 | 1.12 | 4.41 | 320 | 4.35 | 324 |
| 110 | 0 | 0 | 0 | 1.12 | 4.44 | 318 | 4.4 | 321 |
| 120 | 0 | 0 | 0 | 1.12 | 4.47 | 316 | 4.44 | 318 |
| 130 | 0 | 0 | 0 | 1.12 | 4.5 | 313 | 4.49 | 315 |
| 167 | 0 | 0 | 0 | 1.12 | 4.61 | 306 | 4.6 | 307 |
| 212 | 0 | 0 | 0 | 1.12 | 4.74 | 298 | 4.73 | 299 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 16.98 | 999 | 16.95 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 16.74 | 344 | 16.68 | 345 |
| 30 | 0 | 0 | 0 | 1.12 | 16.88 | 341 | 16.83 | 342 |
| 40 | 0 | 0 | 0 | 1.12 | 16.93 | 340 | 16.87 | 341 |
| 50 | 0 | 0 | 0 | 1.12 | 16.98 | 339 | 16.92 | 340 |
| 60 | 0 | 0 | 0 | 1.12 | 17.03 | 338 | 16.97 | 340 |
| 70 | 0 | 0 | 0 | 1.12 | 17.08 | 337 | 17.02 | 339 |
| 80 | 0 | 0 | 0 | 1.12 | 17.13 | 337 | 17.07 | 338 |
| 90 | 0 | 0 | 0 | 1.12 | 17.18 | 336 | 17.11 | 337 |
| 100 | 0 | 0 | 0 | 1.12 | 17.22 | 335 | 17.16 | 336 |
| 110 | 0 | 0 | 0 | 1.12 | 17.26 | 334 | 17.21 | 335 |
| 120 | 0 | 0 | 0 | 1.12 | 17.29 | 334 | 17.26 | 334 |
| 130 | 0 | 0 | 0 | 1.12 | 17.33 | 333 | 17.3 | 333 |
| 167 | 0 | 0 | 0 | 1.12 | 17.44 | 331 | 17.43 | 331 |
| 212 | 0 | 0 | 0 | 1.12 | 17.58 | 328 | 17.58 | 328 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 39.7 | 999 | 39.68 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 39.46 | 342 | 39.41 | 342 |
| 30 | 0 | 0 | 0 | 1.12 | 39.61 | 340 | 39.55 | 341 |
| 40 | 0 | 0 | 0 | 1.12 | 39.66 | 340 | 39.6 | 340 |
| 50 | 0 | 0 | 0 | 1.12 | 39.71 | 340 | 39.65 | 340 |
| 60 | 0 | 0 | 0 | 1.12 | 39.76 | 339 | 39.7 | 340 |
| 70 | 0 | 0 | 0 | 1.12 | 39.81 | 339 | 39.74 | 339 |
| 80 | 0 | 0 | 0 | 1.12 | 39.85 | 339 | 39.79 | 339 |
| 90 | 0 | 0 | 0 | 1.12 | 39.9 | 338 | 39.84 | 339 |
| 100 | 0 | 0 | 0 | 1.12 | 39.95 | 338 | 39.89 | 338 |
| 110 | 0 | 0 | 0 | 1.12 | 39.99 | 338 | 39.94 | 338 |
| 120 | 0 | 0 | 0 | 1.12 | 40.02 | 337 | 39.98 | 338 |
| 130 | 0 | 0 | 0 | 1.12 | 40.06 | 337 | 40.03 | 337 |
| 167 | 0 | 0 | 0 | 1.12 | 40.18 | 336 | 40.17 | 336 |
| 212 | 0 | 0 | 0 | 1.12 | 40.32 | 335 | 40.31 | 335 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 75.37 | 1000 | 75.35 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 75.14 | 341 | 75.08 | 341 |
| 30 | 0 | 0 | 0 | 1.12 | 75.28 | 340 | 75.23 | 340 |
| 40 | 0 | 0 | 0 | 1.12 | 75.33 | 340 | 75.27 | 340 |
| 50 | 0 | 0 | 0 | 1.12 | 75.38 | 340 | 75.32 | 340 |
| 60 | 0 | 0 | 0 | 1.12 | 75.43 | 340 | 75.37 | 340 |
| 70 | 0 | 0 | 0 | 1.12 | 75.48 | 339 | 75.42 | 340 |
| 80 | 0 | 0 | 0 | 1.12 | 75.52 | 339 | 75.46 | 340 |
| 90 | 0 | 0 | 0 | 1.12 | 75.57 | 339 | 75.51 | 339 |
| 100 | 0 | 0 | 0 | 1.12 | 75.62 | 339 | 75.56 | 339 |
| 110 | 0 | 0 | 0 | 1.12 | 75.66 | 339 | 75.61 | 339 |
| 120 | 0 | 0 | 0 | 1.12 | 75.69 | 339 | 75.65 | 339 |
| 130 | 0 | 0 | 0 | 1.12 | 75.73 | 339 | 75.7 | 339 |
| 167 | 0 | 0 | 0 | 1.12 | 75.84 | 338 | 75.84 | 338 |
| 212 | 0 | 0 | 0 | 1.12 | 75.99 | 338 | 75.98 | 338 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-3 | 2-3 | 2-3 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 |
| 100.00 | 4-0 | 4-0 | 4-1 | 4-1 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 |
| 125.00 | 6-3 | 6-4 | 6-4 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 |
| 150.00 | 9-0 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-7 | 9-9 | 9-10 | 9-11 |
| 175.00 | 12-3 | 12-5 | 12-6 | 12-8 | 12-10 | 13-0 | 13-1 | 13-3 | 13-5 | 13-6 |
| 200.00 | 16-0 | 16-2 | 16-5 | 16-7 | 16-9 | 17-0 | 17-2 | 17-4 | 17-6 | 17-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-3 | 2-4 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 |
| 100.00 | 4-0 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 |
| 125.00 | 6-4 | 6-5 | 6-6 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-11 | 6-11 |
| 150.00 | 9-1 | 9-2 | 9-4 | 9-5 | 9-6 | 9-8 | 9-9 | 9-10 | 10-0 | 10-0 |
| 175.00 | 12-5 | 12-7 | 12-8 | 12-10 | 13-0 | 13-2 | 13-4 | 13-5 | 13-7 | 13-8 |
| 200.00 | 16-3 | 16-5 | 16-8 | 16-10 | 17-0 | 17-3 | 17-5 | 17-7 | 17-9 | 17-11 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.137

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-2 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 | 4-3 | 4-3 |
| 125.00 | 6-6 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-8 |
| 150.00 | 9-5 | 9-5 | 9-5 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 |
| 175.00 | 12-10 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 |
| 200.00 | 16-9 | 16-10 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-1 | 17-2 | 17-2 |
| 225.00 | 21-3 | 21-4 | 21-5 | 21-6 | 21-6 | 21-7 | 21-8 | 21-9 | 21-9 | 21-10 |
| 250.00 | 26-4 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-2 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-3 | 4-3 | 4-3 | 4-3 |
| 125.00 | 6-6 | 6-7 | 6-7 | 6-7 | 6-7 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 |
| 150.00 | 9-5 | 9-5 | 9-6 | 9-6 | 9-6 | 9-7 | 9-7 | 9-7 | 9-8 | 9-8 |
| 175.00 | 12-10 | 12-11 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-1 | 13-2 | 13-2 |
| 200.00 | 16-10 | 16-11 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 | 17-2 | 17-3 | 17-3 |
| 225.00 | 21-4 | 21-5 | 21-6 | 21-7 | 21-7 | 21-8 | 21-9 | 21-10 | 21-10 | 21-11 |
| 250.00 | 26-5 | 26-6 | 26-7 | 26-8 | 26-9 | 26-10 | 26-11 | 27-0 | 27-1 | 27-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS



OH823.138

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 |
| 175.00 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-4 | 13-4 | 13-4 | 13-5 |
| 200.00 | 17-4 | 17-4 | 17-5 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 |
| 225.00 | 22-0 | 22-0 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 |
| 250.00 | 27-3 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-5 | 27-6 | 27-6 | 27-7 |
| 275.00 | 33-1 | 33-1 | 33-2 | 33-2 | 33-3 | 33-3 | 33-4 | 33-4 | 33-5 | 33-5 |
| 300.00 | 39-6 | 39-7 | 39-7 | 39-8 | 39-8 | 39-9 | 39-10 | 39-10 | 39-11 | 39-11 |
| 325.00 | 46-7 | 46-7 | 46-8 | 46-9 | 46-9 | 46-10 | 46-11 | 46-11 | 47-0 | 47-1 |
| 350.00 | 54-2 | 54-3 | 54-4 | 54-5 | 54-6 | 54-6 | 54-7 | 54-8 | 54-9 | 54-10 |
| 375.00 | 62-6 | 62-7 | 62-8 | 62-9 | 62-10 | 62-11 | 63-0 | 63-0 | 63-1 | 63-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-9 | 9-10 | 9-10 | 9-10 | 9-10 |
| 175.00 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 | 13-5 |
| 200.00 | 17-4 | 17-5 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 | 17-6 | 17-7 |
| 225.00 | 22-0 | 22-1 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 | 22-3 |
| 250.00 | 27-3 | 27-4 | 27-4 | 27-5 | 27-5 | 27-5 | 27-6 | 27-6 | 27-7 | 27-7 |
| 275.00 | 33-2 | 33-2 | 33-2 | 33-3 | 33-3 | 33-4 | 33-4 | 33-5 | 33-5 | 33-6 |
| 300.00 | 39-7 | 39-7 | 39-8 | 39-8 | 39-9 | 39-10 | 39-10 | 39-11 | 39-11 | 40-0 |
| 325.00 | 46-7 | 46-8 | 46-9 | 46-9 | 46-10 | 46-11 | 46-11 | 47-0 | 47-1 | 47-1 |
| 350.00 | 54-3 | 54-4 | 54-5 | 54-6 | 54-7 | 54-7 | 54-8 | 54-9 | 54-10 | 54-11 |
| 375.00 | 62-7 | 62-8 | 62-9 | 62-10 | 62-11 | 63-0 | 63-1 | 63-2 | 63-3 | 63-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-2 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 |
| 225.00 | 23-1 | 23-1 | 23-2 | 23-2 | 23-2 | 23-2 | 23-2 | 23-2 | 23-3 | 23-3 |
| 250.00 | 28-7 | 28-8 | 28-8 | 28-8 | 28-8 | 28-8 | 28-9 | 28-9 | 28-9 | 28-9 |
| 275.00 | 34-9 | 34-9 | 34-9 | 34-10 | 34-10 | 34-10 | 34-10 | 34-11 | 34-11 | 34-11 |
| 300.00 | 41-6 | 41-6 | 41-7 | 41-7 | 41-7 | 41-8 | 41-8 | 41-8 | 41-8 | 41-9 |
| 325.00 | 48-11 | 48-11 | 49-0 | 49-0 | 49-0 | 49-1 | 49-1 | 49-1 | 49-2 | 49-2 |
| 350.00 | 57-0 | 57-0 | 57-1 | 57-1 | 57-1 | 57-2 | 57-2 | 57-3 | 57-3 | 57-4 |
| 375.00 | 65-9 | 65-9 | 65-10 | 65-10 | 65-11 | 65-11 | 66-0 | 66-0 | 66-1 | 66-1 |
| 400.00 | 75-2 | 75-3 | 75-3 | 75-4 | 75-4 | 75-5 | 75-6 | 75-6 | 75-7 | 75-7 |
| 425.00 | 85-4 | 85-5 | 85-5 | 85-6 | 85-7 | 85-7 | 85-8 | 85-9 | 85-9 | 85-10 |
| 450.00 | 96-3 | 96-4 | 96-4 | 96-5 | 96-6 | 96-7 | 96-7 | 96-8 | 96-9 | 96-10 |
| 475.00 | 107-11 | 108-0 | 108-0 | 108-1 | 108-2 | 108-3 | 108-4 | 108-5 | 108-5 | 108-6 |
| 500.00 | 120-4 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-10 | 120-11 | 121-0 | 121-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 |
| 225.00 | 23-1 | 23-2 | 23-2 | 23-2 | 23-2 | 23-2 | 23-2 | 23-3 | 23-3 | 23-3 |
| 250.00 | 28-8 | 28-8 | 28-8 | 28-8 | 28-8 | 28-9 | 28-9 | 28-9 | 28-9 | 28-9 |
| 275.00 | 34-9 | 34-9 | 34-10 | 34-10 | 34-10 | 34-10 | 34-11 | 34-11 | 34-11 | 34-11 |
| 300.00 | 41-6 | 41-7 | 41-7 | 41-7 | 41-8 | 41-8 | 41-8 | 41-9 | 41-9 | 41-9 |
| 325.00 | 48-11 | 49-0 | 49-0 | 49-0 | 49-1 | 49-1 | 49-2 | 49-2 | 49-2 | 49-3 |
| 350.00 | 57-0 | 57-1 | 57-1 | 57-2 | 57-2 | 57-2 | 57-3 | 57-3 | 57-4 | 57-4 |
| 375.00 | 65-9 | 65-10 | 65-10 | 65-11 | 65-11 | 66-0 | 66-0 | 66-1 | 66-1 | 66-2 |
| 400.00 | 75-3 | 75-3 | 75-4 | 75-5 | 75-5 | 75-6 | 75-6 | 75-7 | 75-7 | 75-8 |
| 425.00 | 85-5 | 85-6 | 85-6 | 85-7 | 85-8 | 85-8 | 85-9 | 85-9 | 85-10 | 85-11 |
| 450.00 | 96-4 | 96-4 | 96-5 | 96-6 | 96-7 | 96-7 | 96-8 | 96-9 | 96-10 | 96-10 |
| 475.00 | 108-0 | 108-1 | 108-1 | 108-2 | 108-3 | 108-4 | 108-5 | 108-6 | 108-7 | 108-7 |
| 500.00 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-10 | 120-11 | 121-0 | 121-1 | 121-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS



OH823.140

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 2.78 | 1486 | 2.75 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 2.31 | 607 | 2.21 | 635 |
| 30 | 0 | 0 | 0 | 1.12 | 2.54 | 552 | 2.44 | 576 |
| 40 | 0 | 0 | 0 | 1.12 | 2.62 | 536 | 2.51 | 559 |
| 50 | 0 | 0 | 0 | 1.12 | 2.69 | 522 | 2.58 | 544 |
| 60 | 0 | 0 | 0 | 1.12 | 2.76 | 509 | 2.65 | 530 |
| 70 | 0 | 0 | 0 | 1.12 | 2.83 | 497 | 2.72 | 516 |
| 80 | 0 | 0 | 0 | 1.12 | 2.9 | 485 | 2.79 | 504 |
| 90 | 0 | 0 | 0 | 1.12 | 2.96 | 474 | 2.85 | 492 |
| 100 | 0 | 0 | 0 | 1.12 | 3.03 | 464 | 2.92 | 481 |
| 110 | 0 | 0 | 0 | 1.12 | 3.09 | 455 | 2.98 | 471 |
| 120 | 0 | 0 | 0 | 1.12 | 3.15 | 446 | 3.05 | 461 |
| 130 | 0 | 0 | 0 | 1.12 | 3.19 | 440 | 3.11 | 452 |
| 167 | 0 | 0 | 0 | 1.12 | 3.33 | 422 | 3.32 | 424 |
| 212 | 0 | 0 | 0 | 1.12 | 3.5 | 402 | 3.48 | 404 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 11.15 | 1496 | 11.12 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 10.68 | 530 | 10.58 | 535 |
| 30 | 0 | 0 | 0 | 1.12 | 10.9 | 520 | 10.8 | 525 |
| 40 | 0 | 0 | 0 | 1.12 | 10.98 | 516 | 10.87 | 521 |
| 50 | 0 | 0 | 0 | 1.12 | 11.05 | 513 | 10.94 | 518 |
| 60 | 0 | 0 | 0 | 1.12 | 11.12 | 510 | 11.01 | 515 |
| 70 | 0 | 0 | 0 | 1.12 | 11.2 | 506 | 11.08 | 512 |
| 80 | 0 | 0 | 0 | 1.12 | 11.27 | 503 | 11.15 | 508 |
| 90 | 0 | 0 | 0 | 1.12 | 11.34 | 500 | 11.22 | 505 |
| 100 | 0 | 0 | 0 | 1.12 | 11.41 | 497 | 11.29 | 502 |
| 110 | 0 | 0 | 0 | 1.12 | 11.48 | 494 | 11.36 | 499 |
| 120 | 0 | 0 | 0 | 1.12 | 11.55 | 491 | 11.43 | 496 |
| 130 | 0 | 0 | 0 | 1.12 | 11.62 | 488 | 11.5 | 493 |
| 167 | 0 | 0 | 0 | 1.12 | 11.79 | 482 | 11.76 | 483 |
| 212 | 0 | 0 | 0 | 1.12 | 11.99 | 474 | 11.98 | 474 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 25.45 | 1498 | 25.42 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 24.99 | 518 | 24.88 | 520 |
| 30 | 0 | 0 | 0 | 1.12 | 25.21 | 514 | 25.1 | 516 |
| 40 | 0 | 0 | 0 | 1.12 | 25.28 | 513 | 25.17 | 515 |
| 50 | 0 | 0 | 0 | 1.12 | 25.36 | 511 | 25.24 | 513 |
| 60 | 0 | 0 | 0 | 1.12 | 25.43 | 510 | 25.32 | 512 |
| 70 | 0 | 0 | 0 | 1.12 | 25.5 | 508 | 25.39 | 511 |
| 80 | 0 | 0 | 0 | 1.12 | 25.58 | 507 | 25.46 | 509 |
| 90 | 0 | 0 | 0 | 1.12 | 25.65 | 506 | 25.53 | 508 |
| 100 | 0 | 0 | 0 | 1.12 | 25.72 | 504 | 25.6 | 507 |
| 110 | 0 | 0 | 0 | 1.12 | 25.79 | 503 | 25.67 | 505 |
| 120 | 0 | 0 | 0 | 1.12 | 25.86 | 502 | 25.74 | 504 |
| 130 | 0 | 0 | 0 | 1.12 | 25.94 | 500 | 25.81 | 503 |
| 167 | 0 | 0 | 0 | 1.12 | 26.12 | 497 | 26.08 | 498 |
| 212 | 0 | 0 | 0 | 1.12 | 26.33 | 493 | 26.32 | 494 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 46.33 | 1499 | 46.3 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 45.86 | 514 | 45.76 | 515 |
| 30 | 0 | 0 | 0 | 1.12 | 46.08 | 512 | 45.97 | 513 |
| 40 | 0 | 0 | 0 | 1.12 | 46.16 | 511 | 46.05 | 512 |
| 50 | 0 | 0 | 0 | 1.12 | 46.23 | 511 | 46.12 | 512 |
| 60 | 0 | 0 | 0 | 1.12 | 46.3 | 510 | 46.19 | 511 |
| 70 | 0 | 0 | 0 | 1.12 | 46.38 | 509 | 46.26 | 510 |
| 80 | 0 | 0 | 0 | 1.12 | 46.45 | 508 | 46.33 | 510 |
| 90 | 0 | 0 | 0 | 1.12 | 46.52 | 508 | 46.4 | 509 |
| 100 | 0 | 0 | 0 | 1.12 | 46.59 | 507 | 46.47 | 508 |
| 110 | 0 | 0 | 0 | 1.12 | 46.67 | 506 | 46.55 | 507 |
| 120 | 0 | 0 | 0 | 1.12 | 46.74 | 506 | 46.62 | 507 |
| 130 | 0 | 0 | 0 | 1.12 | 46.81 | 505 | 46.69 | 506 |
| 167 | 0 | 0 | 0 | 1.12 | 47 | 503 | 46.95 | 503 |
| 212 | 0 | 0 | 0 | 1.12 | 47.22 | 501 | 47.2 | 501 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 74.87 | 1500 | 74.84 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 74.4 | 512 | 74.3 | 513 |
| 30 | 0 | 0 | 0 | 1.12 | 74.62 | 511 | 74.52 | 512 |
| 40 | 0 | 0 | 0 | 1.12 | 74.7 | 511 | 74.59 | 511 |
| 50 | 0 | 0 | 0 | 1.12 | 74.77 | 510 | 74.66 | 511 |
| 60 | 0 | 0 | 0 | 1.12 | 74.84 | 510 | 74.73 | 510 |
| 70 | 0 | 0 | 0 | 1.12 | 74.92 | 509 | 74.8 | 510 |
| 80 | 0 | 0 | 0 | 1.12 | 74.99 | 509 | 74.87 | 510 |
| 90 | 0 | 0 | 0 | 1.12 | 75.06 | 509 | 74.95 | 509 |
| 100 | 0 | 0 | 0 | 1.12 | 75.14 | 508 | 75.02 | 509 |
| 110 | 0 | 0 | 0 | 1.12 | 75.21 | 508 | 75.09 | 508 |
| 120 | 0 | 0 | 0 | 1.12 | 75.28 | 507 | 75.16 | 508 |
| 130 | 0 | 0 | 0 | 1.12 | 75.35 | 507 | 75.23 | 508 |
| 167 | 0 | 0 | 0 | 1.12 | 75.54 | 506 | 75.49 | 506 |
| 212 | 0 | 0 | 0 | 1.12 | 75.76 | 505 | 75.75 | 505 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-4 | 1-4 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 |
| 100.00 | 2-4 | 2-5 | 2-6 | 2-7 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 |
| 125.00 | 3-8 | 3-10 | 3-11 | 4-0 | 4-2 | 4-3 | 4-4 | 4-6 | 4-7 | 4-8 |
| 150.00 | 5-4 | 5-6 | 5-8 | 5-10 | 6-0 | 6-2 | 6-3 | 6-5 | 6-7 | 6-9 |
| 175.00 | 7-3 | 7-6 | 7-8 | 7-11 | 8-2 | 8-4 | 8-7 | 8-9 | 8-11 | 9-2 |
| 200.00 | 9-6 | 9-9 | 10-1 | 10-4 | 10-8 | 10-11 | 11-2 | 11-5 | 11-9 | 12-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-5 | 1-5 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 |
| 100.00 | 2-6 | 2-7 | 2-7 | 2-8 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 |
| 125.00 | 3-10 | 4-0 | 4-1 | 4-2 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 |
| 150.00 | 5-7 | 5-9 | 5-11 | 6-1 | 6-3 | 6-4 | 6-6 | 6-8 | 6-10 | 7-0 |
| 175.00 | 7-7 | 7-10 | 8-0 | 8-3 | 8-6 | 8-8 | 8-11 | 9-1 | 9-4 | 9-6 |
| 200.00 | 9-11 | 10-2 | 10-6 | 10-9 | 11-1 | 11-4 | 11-7 | 11-11 | 12-2 | 12-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.144

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-8 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 |
| 125.00 | 4-2 | 4-2 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 |
| 150.00 | 6-0 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 |
| 175.00 | 8-2 | 8-3 | 8-4 | 8-4 | 8-5 | 8-6 | 8-6 | 8-7 | 8-8 | 8-8 |
| 200.00 | 10-9 | 10-10 | 10-10 | 10-11 | 11-0 | 11-1 | 11-2 | 11-3 | 11-4 | 11-4 |
| 225.00 | 13-7 | 13-8 | 13-9 | 13-10 | 13-11 | 14-1 | 14-2 | 14-3 | 14-4 | 14-5 |
| 250.00 | 16-9 | 16-11 | 17-0 | 17-2 | 17-3 | 17-4 | 17-6 | 17-7 | 17-8 | 17-10 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 2-8 | 2-9 | 2-9 | 2-9 | 2-9 | 2-9 | 2-10 | 2-10 | 2-10 | 2-10 |
| 125.00 | 4-3 | 4-3 | 4-3 | 4-4 | 4-4 | 4-4 | 4-5 | 4-5 | 4-5 | 4-6 |
| 150.00 | 6-1 | 6-1 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-5 | 6-5 |
| 175.00 | 8-3 | 8-4 | 8-5 | 8-5 | 8-6 | 8-7 | 8-7 | 8-8 | 8-9 | 8-9 |
| 200.00 | 10-10 | 10-11 | 11-0 | 11-1 | 11-1 | 11-2 | 11-3 | 11-4 | 11-5 | 11-6 |
| 225.00 | 13-9 | 13-10 | 13-11 | 14-0 | 14-1 | 14-2 | 14-3 | 14-4 | 14-6 | 14-7 |
| 250.00 | 17-0 | 17-1 | 17-2 | 17-4 | 17-5 | 17-6 | 17-8 | 17-9 | 17-10 | 18-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-3 | 6-3 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-4 |
| 175.00 | 8-6 | 8-6 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 |
| 200.00 | 11-1 | 11-1 | 11-2 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 |
| 225.00 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 |
| 250.00 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 |
| 275.00 | 21-0 | 21-1 | 21-1 | 21-2 | 21-3 | 21-4 | 21-4 | 21-5 | 21-6 | 21-6 |
| 300.00 | 25-0 | 25-1 | 25-2 | 25-3 | 25-4 | 25-5 | 25-6 | 25-6 | 25-7 | 25-8 |
| 325.00 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 |
| 350.00 | 34-2 | 34-3 | 34-5 | 34-6 | 34-7 | 34-8 | 34-9 | 34-10 | 35-0 | 35-1 |
| 375.00 | 39-4 | 39-5 | 39-6 | 39-8 | 39-9 | 39-11 | 40-0 | 40-1 | 40-3 | 40-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 6-3 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 |
| 175.00 | 8-6 | 8-6 | 8-7 | 8-7 | 8-7 | 8-7 | 8-8 | 8-8 | 8-8 | 8-9 |
| 200.00 | 11-1 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 | 11-5 |
| 225.00 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 | 14-5 | 14-5 |
| 250.00 | 17-5 | 17-5 | 17-6 | 17-7 | 17-7 | 17-8 | 17-9 | 17-9 | 17-10 | 17-10 |
| 275.00 | 21-1 | 21-2 | 21-3 | 21-3 | 21-4 | 21-5 | 21-5 | 21-6 | 21-7 | 21-8 |
| 300.00 | 25-2 | 25-3 | 25-3 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-10 |
| 325.00 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 | 30-0 | 30-1 | 30-2 | 30-3 | 30-4 |
| 350.00 | 34-4 | 34-5 | 34-6 | 34-8 | 34-9 | 34-10 | 34-11 | 35-0 | 35-2 | 35-3 |
| 375.00 | 39-6 | 39-7 | 39-9 | 39-10 | 39-11 | 40-1 | 40-2 | 40-3 | 40-5 | 40-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-4 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 |
| 225.00 | 14-4 | 14-5 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-6 | 14-7 |
| 250.00 | 17-9 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 |
| 275.00 | 21-6 | 21-6 | 21-7 | 21-7 | 21-8 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 |
| 300.00 | 25-8 | 25-8 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 | 26-0 |
| 325.00 | 30-2 | 30-2 | 30-3 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 | 30-6 | 30-7 |
| 350.00 | 35-0 | 35-1 | 35-1 | 35-2 | 35-3 | 35-3 | 35-4 | 35-5 | 35-5 | 35-6 |
| 375.00 | 40-3 | 40-4 | 40-5 | 40-5 | 40-6 | 40-7 | 40-8 | 40-8 | 40-9 | 40-10 |
| 400.00 | 45-11 | 46-0 | 46-1 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-6 | 46-7 |
| 425.00 | 51-11 | 52-0 | 52-1 | 52-2 | 52-3 | 52-4 | 52-5 | 52-6 | 52-7 | 52-8 |
| 450.00 | 58-4 | 58-5 | 58-6 | 58-8 | 58-9 | 58-10 | 58-11 | 59-0 | 59-1 | 59-2 |
| 475.00 | 65-2 | 65-3 | 65-5 | 65-6 | 65-7 | 65-8 | 65-10 | 65-11 | 66-0 | 66-1 |
| 500.00 | 72-5 | 72-6 | 72-8 | 72-9 | 72-10 | 73-0 | 73-1 | 73-3 | 73-4 | 73-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 11-4 | 11-4 | 11-5 | 11-5 | 11-5 | 11-5 | 11-6 | 11-6 | 11-6 | 11-6 |
| 225.00 | 14-5 | 14-5 | 14-5 | 14-5 | 14-6 | 14-6 | 14-6 | 14-7 | 14-7 | 14-7 |
| 250.00 | 17-9 | 17-10 | 17-10 | 17-10 | 17-11 | 17-11 | 17-11 | 18-0 | 18-0 | 18-0 |
| 275.00 | 21-7 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-9 | 21-10 | 21-10 |
| 300.00 | 25-8 | 25-9 | 25-9 | 25-10 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 |
| 325.00 | 30-2 | 30-3 | 30-4 | 30-4 | 30-5 | 30-5 | 30-6 | 30-6 | 30-7 | 30-8 |
| 350.00 | 35-1 | 35-2 | 35-2 | 35-3 | 35-4 | 35-4 | 35-5 | 35-6 | 35-6 | 35-7 |
| 375.00 | 40-4 | 40-5 | 40-6 | 40-7 | 40-7 | 40-8 | 40-9 | 40-10 | 40-10 | 40-11 |
| 400.00 | 46-0 | 46-1 | 46-2 | 46-3 | 46-4 | 46-5 | 46-5 | 46-6 | 46-7 | 46-8 |
| 425.00 | 52-1 | 52-2 | 52-3 | 52-4 | 52-5 | 52-6 | 52-7 | 52-8 | 52-9 | 52-10 |
| 450.00 | 58-6 | 58-7 | 58-8 | 58-9 | 58-10 | 59-0 | 59-1 | 59-2 | 59-3 | 59-4 |
| 475.00 | 65-4 | 65-5 | 65-7 | 65-8 | 65-9 | 65-10 | 66-0 | 66-1 | 66-2 | 66-3 |
| 500.00 | 72-7 | 72-8 | 72-10 | 72-11 | 73-1 | 73-2 | 73-3 | 73-5 | 73-6 | 73-8 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.147

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-3 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-4 | 18-4 | 18-5 |
| 275.00 | 22-1 | 22-1 | 22-2 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 | 22-3 | 22-3 |
| 300.00 | 26-4 | 26-4 | 26-5 | 26-5 | 26-5 | 26-5 | 26-6 | 26-6 | 26-6 | 26-7 |
| 325.00 | 30-11 | 31-0 | 31-0 | 31-0 | 31-1 | 31-1 | 31-1 | 31-2 | 31-2 | 31-3 |
| 350.00 | 36-0 | 36-0 | 36-0 | 36-1 | 36-1 | 36-2 | 36-2 | 36-2 | 36-3 | 36-3 |
| 375.00 | 41-4 | 41-5 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 | 41-8 | 41-8 | 41-9 |
| 400.00 | 47-2 | 47-3 | 47-3 | 47-4 | 47-4 | 47-5 | 47-5 | 47-6 | 47-6 | 47-7 |
| 425.00 | 53-4 | 53-5 | 53-6 | 53-6 | 53-7 | 53-8 | 53-8 | 53-9 | 53-9 | 53-10 |
| 450.00 | 60-0 | 60-0 | 60-1 | 60-2 | 60-3 | 60-3 | 60-4 | 60-5 | 60-5 | 60-6 |
| 475.00 | 67-0 | 67-1 | 67-2 | 67-2 | 67-3 | 67-4 | 67-5 | 67-5 | 67-6 | 67-7 |
| 500.00 | 74-5 | 74-6 | 74-7 | 74-8 | 74-9 | 74-10 | 74-10 | 74-11 | 75-0 | 75-1 |
| 525.00 | 82-4 | 82-5 | 82-6 | 82-7 | 82-8 | 82-8 | 82-9 | 82-10 | 82-11 | 83-0 |
| 550.00 | 90-7 | 90-8 | 90-9 | 90-10 | 90-11 | 91-1 | 91-2 | 91-3 | 91-4 | 91-5 |
| 575.00 | 99-4 | 99-5 | 99-6 | 99-8 | 99-9 | 99-10 | 99-11 | 100-0 | 100-1 | 100-3 |
| 600.00 | 108-6 | 108-8 | 108-9 | 108-10 | 108-11 | 109-1 | 109-2 | 109-3 | 109-4 | 109-6 |
| 625.00 | 118-2 | 118-3 | 118-5 | 118-6 | 118-7 | 118-9 | 118-10 | 119-0 | 119-1 | 119-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 18-3 | 18-3 | 18-3 | 18-4 | 18-4 | 18-4 | 18-4 | 18-4 | 18-5 | 18-5 |
| 275.00 | 22-1 | 22-2 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 | 22-3 | 22-3 | 22-4 |
| 300.00 | 26-4 | 26-5 | 26-5 | 26-5 | 26-6 | 26-6 | 26-6 | 26-6 | 26-7 | 26-7 |
| 325.00 | 31-0 | 31-0 | 31-1 | 31-1 | 31-1 | 31-2 | 31-2 | 31-2 | 31-3 | 31-3 |
| 350.00 | 36-0 | 36-1 | 36-1 | 36-1 | 36-2 | 36-2 | 36-3 | 36-3 | 36-3 | 36-4 |
| 375.00 | 41-5 | 41-6 | 41-6 | 41-7 | 41-7 | 41-7 | 41-8 | 41-8 | 41-9 | 41-9 |
| 400.00 | 47-3 | 47-3 | 47-4 | 47-4 | 47-5 | 47-6 | 47-6 | 47-7 | 47-7 | 47-8 |
| 425.00 | 53-5 | 53-6 | 53-7 | 53-7 | 53-8 | 53-8 | 53-9 | 53-10 | 53-10 | 53-11 |
| 450.00 | 60-1 | 60-2 | 60-2 | 60-3 | 60-4 | 60-4 | 60-5 | 60-6 | 60-6 | 60-7 |
| 475.00 | 67-1 | 67-2 | 67-3 | 67-4 | 67-4 | 67-5 | 67-6 | 67-7 | 67-7 | 67-8 |
| 500.00 | 74-7 | 74-7 | 74-8 | 74-9 | 74-10 | 74-11 | 75-0 | 75-1 | 75-2 | 75-3 |
| 525.00 | 82-5 | 82-6 | 82-7 | 82-8 | 82-9 | 82-10 | 82-11 | 83-0 | 83-1 | 83-2 |
| 550.00 | 90-9 | 90-10 | 90-11 | 91-0 | 91-1 | 91-2 | 91-3 | 91-4 | 91-5 | 91-7 |
| 575.00 | 99-6 | 99-7 | 99-8 | 99-9 | 99-11 | 100-0 | 100-1 | 100-2 | 100-3 | 100-5 |
| 600.00 | 108-8 | 108-9 | 108-11 | 109-0 | 109-1 | 109-3 | 109-4 | 109-5 | 109-7 | 109-8 |
| 625.00 | 118-4 | 118-5 | 118-7 | 118-8 | 118-10 | 118-11 | 119-0 | 119-2 | 119-3 | 119-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 2.08 | 1980 | 2.06 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 1.36 | 1032 | 1.22 | 1146 |
| 30 | 0 | 0 | 0 | 1.12 | 1.65 | 848 | 1.49 | 942 |
| 40 | 0 | 0 | 0 | 1.12 | 1.75 | 802 | 1.58 | 888 |
| 50 | 0 | 0 | 0 | 1.12 | 1.84 | 761 | 1.67 | 840 |
| 60 | 0 | 0 | 0 | 1.12 | 1.93 | 725 | 1.76 | 798 |
| 70 | 0 | 0 | 0 | 1.12 | 2.02 | 694 | 1.84 | 760 |
| 80 | 0 | 0 | 0 | 1.12 | 2.11 | 666 | 1.93 | 727 |
| 90 | 0 | 0 | 0 | 1.12 | 2.19 | 640 | 2.01 | 696 |
| 100 | 0 | 0 | 0 | 1.12 | 2.27 | 617 | 2.1 | 669 |
| 110 | 0 | 0 | 0 | 1.12 | 2.35 | 596 | 2.18 | 644 |
| 120 | 0 | 0 | 0 | 1.12 | 2.43 | 577 | 2.26 | 622 |
| 130 | 0 | 0 | 0 | 1.12 | 2.51 | 560 | 2.33 | 601 |
| 167 | 0 | 0 | 0 | 1.12 | 2.68 | 525 | 2.61 | 539 |
| 212 | 0 | 0 | 0 | 1.12 | 2.86 | 490 | 2.84 | 494 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 8.31 | 1996 | 8.29 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 7.54 | 747 | 7.37 | 764 |
| 30 | 0 | 0 | 0 | 1.12 | 7.85 | 718 | 7.67 | 735 |
| 40 | 0 | 0 | 0 | 1.12 | 7.95 | 709 | 7.76 | 726 |
| 50 | 0 | 0 | 0 | 1.12 | 8.05 | 701 | 7.86 | 717 |
| 60 | 0 | 0 | 0 | 1.12 | 8.14 | 692 | 7.96 | 708 |
| 70 | 0 | 0 | 0 | 1.12 | 8.24 | 684 | 8.05 | 700 |
| 80 | 0 | 0 | 0 | 1.12 | 8.33 | 677 | 8.15 | 692 |
| 90 | 0 | 0 | 0 | 1.12 | 8.43 | 669 | 8.24 | 684 |
| 100 | 0 | 0 | 0 | 1.12 | 8.52 | 662 | 8.33 | 677 |
| 110 | 0 | 0 | 0 | 1.12 | 8.61 | 655 | 8.42 | 670 |
| 120 | 0 | 0 | 0 | 1.12 | 8.71 | 648 | 8.51 | 663 |
| 130 | 0 | 0 | 0 | 1.12 | 8.8 | 642 | 8.6 | 656 |
| 167 | 0 | 0 | 0 | 1.12 | 9.08 | 622 | 8.93 | 632 |
| 212 | 0 | 0 | 0 | 1.12 | 9.33 | 606 | 9.3 | 607 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 18.84 | 1998 | 18.83 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 18.08 | 707 | 17.9 | 714 |
| 30 | 0 | 0 | 0 | 1.12 | 18.38 | 696 | 18.2 | 703 |
| 40 | 0 | 0 | 0 | 1.12 | 18.47 | 692 | 18.29 | 699 |
| 50 | 0 | 0 | 0 | 1.12 | 18.57 | 689 | 18.39 | 695 |
| 60 | 0 | 0 | 0 | 1.12 | 18.67 | 685 | 18.49 | 692 |
| 70 | 0 | 0 | 0 | 1.12 | 18.77 | 682 | 18.58 | 689 |
| 80 | 0 | 0 | 0 | 1.12 | 18.87 | 678 | 18.68 | 685 |
| 90 | 0 | 0 | 0 | 1.12 | 18.96 | 675 | 18.77 | 682 |
| 100 | 0 | 0 | 0 | 1.12 | 19.06 | 672 | 18.86 | 678 |
| 110 | 0 | 0 | 0 | 1.12 | 19.15 | 669 | 18.96 | 675 |
| 120 | 0 | 0 | 0 | 1.12 | 19.25 | 665 | 19.05 | 672 |
| 130 | 0 | 0 | 0 | 1.12 | 19.34 | 662 | 19.15 | 669 |
| 167 | 0 | 0 | 0 | 1.12 | 19.66 | 652 | 19.49 | 657 |
| 212 | 0 | 0 | 0 | 1.12 | 19.93 | 643 | 19.9 | 644 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 33.92 | 1999 | 33.9 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 33.15 | 694 | 32.98 | 698 |
| 30 | 0 | 0 | 0 | 1.12 | 33.45 | 688 | 33.27 | 692 |
| 40 | 0 | 0 | 0 | 1.12 | 33.55 | 687 | 33.36 | 690 |
| 50 | 0 | 0 | 0 | 1.12 | 33.64 | 685 | 33.46 | 688 |
| 60 | 0 | 0 | 0 | 1.12 | 33.74 | 683 | 33.56 | 686 |
| 70 | 0 | 0 | 0 | 1.12 | 33.84 | 681 | 33.65 | 685 |
| 80 | 0 | 0 | 0 | 1.12 | 33.94 | 679 | 33.75 | 683 |
| 90 | 0 | 0 | 0 | 1.12 | 34.03 | 677 | 33.84 | 681 |
| 100 | 0 | 0 | 0 | 1.12 | 34.13 | 675 | 33.94 | 679 |
| 110 | 0 | 0 | 0 | 1.12 | 34.23 | 674 | 34.03 | 677 |
| 120 | 0 | 0 | 0 | 1.12 | 34.32 | 672 | 34.13 | 676 |
| 130 | 0 | 0 | 0 | 1.12 | 34.42 | 670 | 34.22 | 674 |
| 167 | 0 | 0 | 0 | 1.12 | 34.76 | 664 | 34.57 | 667 |
| 212 | 0 | 0 | 0 | 1.12 | 35.04 | 659 | 34.99 | 660 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 18.5 | 0 | 3.295 | 53.9 | 1999 | 53.88 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 53.14 | 689 | 52.97 | 691 |
| 30 | 0 | 0 | 0 | 1.12 | 53.43 | 685 | 53.25 | 687 |
| 40 | 0 | 0 | 0 | 1.12 | 53.53 | 684 | 53.35 | 686 |
| 50 | 0 | 0 | 0 | 1.12 | 53.63 | 683 | 53.45 | 685 |
| 60 | 0 | 0 | 0 | 1.12 | 53.73 | 682 | 53.54 | 684 |
| 70 | 0 | 0 | 0 | 1.12 | 53.83 | 681 | 53.64 | 683 |
| 80 | 0 | 0 | 0 | 1.12 | 53.92 | 679 | 53.73 | 682 |
| 90 | 0 | 0 | 0 | 1.12 | 54.02 | 678 | 53.83 | 680 |
| 100 | 0 | 0 | 0 | 1.12 | 54.12 | 677 | 53.92 | 679 |
| 110 | 0 | 0 | 0 | 1.12 | 54.21 | 676 | 54.02 | 678 |
| 120 | 0 | 0 | 0 | 1.12 | 54.31 | 675 | 54.11 | 677 |
| 130 | 0 | 0 | 0 | 1.12 | 54.41 | 674 | 54.21 | 676 |
| 167 | 0 | 0 | 0 | 1.12 | 54.75 | 670 | 54.56 | 672 |
| 212 | 0 | 0 | 0 | 1.12 | 55.04 | 667 | 54.98 | 667 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-9 | 0-10 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 |
| 100.00 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 |
| 125.00 | 2-2 | 2-4 | 2-6 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-3 | 3-5 |
| 150.00 | 3-2 | 3-4 | 3-7 | 3-9 | 3-11 | 4-2 | 4-4 | 4-6 | 4-9 | 4-11 |
| 175.00 | 4-3 | 4-7 | 4-10 | 5-1 | 5-5 | 5-8 | 5-11 | 6-2 | 6-5 | 6-8 |
| 200.00 | 5-7 | 5-11 | 6-4 | 6-8 | 7-0 | 7-5 | 7-9 | 8-1 | 8-5 | 8-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 0-11 | 0-11 | 1-0 | 1-0 | 1-1 | 1-2 | 1-2 | 1-3 | 1-3 | 1-4 |
| 100.00 | 1-7 | 1-8 | 1-9 | 1-10 | 1-11 | 2-0 | 2-1 | 2-2 | 2-3 | 2-4 |
| 125.00 | 2-5 | 2-7 | 2-9 | 2-11 | 3-0 | 3-2 | 3-4 | 3-5 | 3-7 | 3-8 |
| 150.00 | 3-6 | 3-9 | 3-11 | 4-2 | 4-4 | 4-7 | 4-9 | 4-11 | 5-1 | 5-4 |
| 175.00 | 4-9 | 5-1 | 5-4 | 5-8 | 5-11 | 6-2 | 6-6 | 6-9 | 7-0 | 7-3 |
| 200.00 | 6-3 | 6-7 | 7-0 | 7-5 | 7-9 | 8-1 | 8-5 | 8-9 | 9-1 | 9-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.152

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-11 | 1-11 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 |
| 125.00 | 2-11 | 3-0 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 |
| 150.00 | 4-3 | 4-4 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 |
| 175.00 | 5-10 | 5-10 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-5 |
| 200.00 | 7-7 | 7-8 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 |
| 225.00 | 9-7 | 9-9 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 |
| 250.00 | 11-10 | 12-0 | 12-2 | 12-4 | 12-5 | 12-7 | 12-9 | 12-11 | 13-0 | 13-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 1-11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-1 | 2-1 | 2-1 | 2-2 | 2-2 |
| 125.00 | 3-0 | 3-1 | 3-1 | 3-2 | 3-2 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 |
| 150.00 | 4-4 | 4-5 | 4-6 | 4-6 | 4-7 | 4-8 | 4-8 | 4-9 | 4-9 | 4-10 |
| 175.00 | 5-11 | 6-0 | 6-1 | 6-2 | 6-3 | 6-4 | 6-5 | 6-5 | 6-6 | 6-7 |
| 200.00 | 7-9 | 7-10 | 7-11 | 8-1 | 8-2 | 8-3 | 8-4 | 8-5 | 8-6 | 8-7 |
| 225.00 | 9-10 | 9-11 | 10-1 | 10-2 | 10-4 | 10-5 | 10-7 | 10-8 | 10-10 | 10-11 |
| 250.00 | 12-1 | 12-3 | 12-5 | 12-7 | 12-9 | 12-11 | 13-0 | 13-2 | 13-4 | 13-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.153

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-8 | 4-9 |
| 175.00 | 6-2 | 6-2 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 |
| 200.00 | 8-0 | 8-1 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 |
| 225.00 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 |
| 250.00 | 12-7 | 12-7 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 | 13-2 |
| 275.00 | 15-2 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 |
| 300.00 | 18-1 | 18-2 | 18-4 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 19-0 |
| 325.00 | 21-3 | 21-4 | 21-6 | 21-7 | 21-9 | 21-10 | 21-11 | 22-1 | 22-2 | 22-3 |
| 350.00 | 24-8 | 24-10 | 24-11 | 25-1 | 25-2 | 25-4 | 25-6 | 25-7 | 25-9 | 25-10 |
| 375.00 | 28-4 | 28-6 | 28-8 | 28-10 | 29-0 | 29-1 | 29-3 | 29-5 | 29-7 | 29-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 | 4-8 | 4-9 | 4-9 | 4-9 |
| 175.00 | 6-2 | 6-3 | 6-3 | 6-4 | 6-4 | 6-4 | 6-5 | 6-5 | 6-6 | 6-6 |
| 200.00 | 8-1 | 8-2 | 8-2 | 8-3 | 8-3 | 8-4 | 8-4 | 8-5 | 8-5 | 8-6 |
| 225.00 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 | 10-8 | 10-8 | 10-9 |
| 250.00 | 12-8 | 12-9 | 12-10 | 12-11 | 12-11 | 13-0 | 13-1 | 13-2 | 13-3 | 13-3 |
| 275.00 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-9 | 15-10 | 15-11 | 16-0 | 16-1 |
| 300.00 | 18-3 | 18-5 | 18-6 | 18-7 | 18-8 | 18-9 | 18-10 | 19-0 | 19-1 | 19-2 |
| 325.00 | 21-6 | 21-7 | 21-8 | 21-10 | 21-11 | 22-1 | 22-2 | 22-3 | 22-5 | 22-6 |
| 350.00 | 24-11 | 25-1 | 25-2 | 25-4 | 25-6 | 25-7 | 25-9 | 25-10 | 26-0 | 26-1 |
| 375.00 | 28-8 | 28-10 | 28-11 | 29-1 | 29-3 | 29-5 | 29-7 | 29-9 | 29-10 | 30-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-3 | 8-3 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-5 |
| 225.00 | 10-5 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 |
| 250.00 | 12-11 | 12-11 | 13-0 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 |
| 275.00 | 15-7 | 15-8 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 | 15-11 | 16-0 | 16-0 |
| 300.00 | 18-7 | 18-8 | 18-8 | 18-9 | 18-10 | 18-10 | 18-11 | 19-0 | 19-0 | 19-1 |
| 325.00 | 21-10 | 21-11 | 21-11 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 | 22-4 | 22-5 |
| 350.00 | 25-4 | 25-5 | 25-6 | 25-7 | 25-8 | 25-9 | 25-9 | 25-10 | 25-11 | 26-0 |
| 375.00 | 29-1 | 29-2 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-9 | 29-10 | 29-11 |
| 400.00 | 33-2 | 33-3 | 33-4 | 33-6 | 33-7 | 33-8 | 33-9 | 33-10 | 33-11 | 34-0 |
| 425.00 | 37-6 | 37-7 | 37-9 | 37-10 | 37-11 | 38-0 | 38-2 | 38-3 | 38-4 | 38-6 |
| 450.00 | 42-1 | 42-2 | 42-4 | 42-5 | 42-7 | 42-8 | 42-10 | 42-11 | 43-1 | 43-2 |
| 475.00 | 46-11 | 47-1 | 47-3 | 47-4 | 47-6 | 47-8 | 47-9 | 47-11 | 48-0 | 48-2 |
| 500.00 | 52-1 | 52-3 | 52-5 | 52-7 | 52-8 | 52-10 | 53-0 | 53-2 | 53-4 | 53-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 8-3 | 8-4 | 8-4 | 8-4 | 8-5 | 8-5 | 8-5 | 8-5 | 8-6 | 8-6 |
| 225.00 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 |
| 250.00 | 12-11 | 13-0 | 13-0 | 13-1 | 13-1 | 13-2 | 13-2 | 13-3 | 13-3 | 13-4 |
| 275.00 | 15-8 | 15-9 | 15-9 | 15-10 | 15-10 | 15-11 | 16-0 | 16-0 | 16-1 | 16-1 |
| 300.00 | 18-8 | 18-9 | 18-10 | 18-10 | 18-11 | 18-11 | 19-0 | 19-1 | 19-1 | 19-2 |
| 325.00 | 21-11 | 22-0 | 22-1 | 22-2 | 22-2 | 22-3 | 22-4 | 22-5 | 22-6 | 22-6 |
| 350.00 | 25-6 | 25-7 | 25-8 | 25-8 | 25-9 | 25-10 | 25-11 | 26-0 | 26-1 | 26-2 |
| 375.00 | 29-3 | 29-4 | 29-5 | 29-6 | 29-7 | 29-8 | 29-10 | 29-11 | 30-0 | 30-1 |
| 400.00 | 33-4 | 33-5 | 33-7 | 33-8 | 33-9 | 33-10 | 33-11 | 34-0 | 34-2 | 34-3 |
| 425.00 | 37-8 | 37-10 | 37-11 | 38-0 | 38-2 | 38-3 | 38-4 | 38-6 | 38-7 | 38-8 |
| 450.00 | 42-4 | 42-5 | 42-7 | 42-8 | 42-10 | 42-11 | 43-1 | 43-2 | 43-4 | 43-5 |
| 475.00 | 47-2 | 47-4 | 47-6 | 47-7 | 47-9 | 47-11 | 48-0 | 48-2 | 48-4 | 48-5 |
| 500.00 | 52-4 | 52-6 | 52-8 | 52-10 | 53-0 | 53-2 | 53-4 | 53-6 | 53-7 | 53-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-2 | 13-2 | 13-2 | 13-3 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 |
| 275.00 | 15-11 | 15-11 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-2 | 16-2 |
| 300.00 | 19-0 | 19-0 | 19-0 | 19-1 | 19-1 | 19-2 | 19-2 | 19-2 | 19-3 | 19-3 |
| 325.00 | 22-3 | 22-4 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 | 22-7 | 22-7 | 22-7 |
| 350.00 | 25-10 | 25-11 | 25-11 | 26-0 | 26-0 | 26-1 | 26-2 | 26-2 | 26-3 | 26-3 |
| 375.00 | 29-9 | 29-9 | 29-10 | 29-10 | 29-11 | 30-0 | 30-0 | 30-1 | 30-2 | 30-2 |
| 400.00 | 33-10 | 33-11 | 34-0 | 34-0 | 34-1 | 34-2 | 34-2 | 34-3 | 34-4 | 34-5 |
| 425.00 | 38-3 | 38-4 | 38-5 | 38-5 | 38-6 | 38-7 | 38-8 | 38-9 | 38-10 | 38-10 |
| 450.00 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 43-7 | 43-8 |
| 475.00 | 47-11 | 48-0 | 48-1 | 48-2 | 48-3 | 48-4 | 48-5 | 48-6 | 48-7 | 48-8 |
| 500.00 | 53-2 | 53-3 | 53-4 | 53-5 | 53-7 | 53-8 | 53-9 | 53-10 | 53-11 | 54-0 |
| 525.00 | 58-8 | 58-10 | 58-11 | 59-0 | 59-1 | 59-3 | 59-4 | 59-5 | 59-7 | 59-8 |
| 550.00 | 64-6 | 64-8 | 64-9 | 64-10 | 65-0 | 65-1 | 65-3 | 65-4 | 65-5 | 65-7 |
| 575.00 | 70-8 | 70-9 | 70-11 | 71-0 | 71-2 | 71-3 | 71-5 | 71-6 | 71-8 | 71-9 |
| 600.00 | 77-1 | 77-2 | 77-4 | 77-6 | 77-7 | 77-9 | 77-11 | 78-0 | 78-2 | 78-4 |
| 625.00 | 83-9 | 83-11 | 84-1 | 84-2 | 84-4 | 84-6 | 84-8 | 84-10 | 85-0 | 85-1 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 13-2 | 13-3 | 13-3 | 13-3 | 13-3 | 13-4 | 13-4 | 13-4 | 13-5 | 13-5 |
| 275.00 | 16-0 | 16-0 | 16-0 | 16-1 | 16-1 | 16-1 | 16-2 | 16-2 | 16-2 | 16-3 |
| 300.00 | 19-0 | 19-1 | 19-1 | 19-1 | 19-2 | 19-2 | 19-3 | 19-3 | 19-4 | 19-4 |
| 325.00 | 22-4 | 22-5 | 22-5 | 22-6 | 22-6 | 22-7 | 22-7 | 22-8 | 22-8 | 22-8 |
| 350.00 | 25-11 | 26-0 | 26-0 | 26-1 | 26-2 | 26-2 | 26-3 | 26-3 | 26-4 | 26-4 |
| 375.00 | 29-10 | 29-10 | 29-11 | 30-0 | 30-0 | 30-1 | 30-2 | 30-2 | 30-3 | 30-4 |
| 400.00 | 33-11 | 34-0 | 34-1 | 34-2 | 34-2 | 34-3 | 34-4 | 34-5 | 34-5 | 34-6 |
| 425.00 | 38-5 | 38-5 | 38-6 | 38-7 | 38-8 | 38-9 | 38-10 | 38-10 | 38-11 | 39-0 |
| 450.00 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 43-7 | 43-8 | 43-9 | 43-9 |
| 475.00 | 48-1 | 48-2 | 48-3 | 48-4 | 48-5 | 48-6 | 48-7 | 48-8 | 48-9 | 48-10 |
| 500.00 | 53-4 | 53-5 | 53-6 | 53-8 | 53-9 | 53-10 | 53-11 | 54-0 | 54-1 | 54-3 |
| 525.00 | 58-11 | 59-0 | 59-1 | 59-3 | 59-4 | 59-5 | 59-6 | 59-8 | 59-9 | 59-10 |
| 550.00 | 64-9 | 64-10 | 65-0 | 65-1 | 65-3 | 65-4 | 65-5 | 65-7 | 65-8 | 65-10 |
| 575.00 | 70-10 | 71-0 | 71-2 | 71-3 | 71-5 | 71-6 | 71-8 | 71-9 | 71-11 | 72-1 |
| 600.00 | 77-4 | 77-5 | 77-7 | 77-9 | 77-11 | 78-0 | 78-2 | 78-4 | 78-5 | 78-7 |
| 625.00 | 84-0 | 84-2 | 84-4 | 84-6 | 84-8 | 84-10 | 85-0 | 85-1 | 85-3 | 85-5 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 6.88 | 999 | 6.87 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 6.68 | 213 | 6.65 | 214 |
| 30 | 0 | 0 | 0 | 1.12 | 6.71 | 212 | 6.69 | 213 |
| 40 | 0 | 0 | 0 | 1.12 | 6.74 | 211 | 6.72 | 212 |
| 50 | 0 | 0 | 0 | 1.12 | 6.77 | 210 | 6.75 | 211 |
| 60 | 0 | 0 | 0 | 1.12 | 6.81 | 210 | 6.78 | 210 |
| 70 | 0 | 0 | 0 | 1.12 | 6.84 | 209 | 6.8 | 210 |
| 80 | 0 | 0 | 0 | 1.12 | 6.87 | 208 | 6.83 | 209 |
| 90 | 0 | 0 | 0 | 1.12 | 6.89 | 207 | 6.86 | 208 |
| 100 | 0 | 0 | 0 | 1.12 | 6.91 | 207 | 6.89 | 207 |
| 110 | 0 | 0 | 0 | 1.12 | 6.93 | 206 | 6.92 | 206 |
| 120 | 0 | 0 | 0 | 1.12 | 6.95 | 205 | 6.94 | 206 |
| 130 | 0 | 0 | 0 | 1.12 | 6.97 | 205 | 6.96 | 205 |
| 167 | 0 | 0 | 0 | 1.12 | 7.04 | 203 | 7.03 | 203 |
| 212 | 0 | 0 | 0 | 1.12 | 7.12 | 201 | 7.12 | 201 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 29.31 | 1000 | 29.3 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 29.12 | 209 | 29.09 | 209 |
| 30 | 0 | 0 | 0 | 1.12 | 29.15 | 209 | 29.12 | 209 |
| 40 | 0 | 0 | 0 | 1.12 | 29.18 | 208 | 29.15 | 209 |
| 50 | 0 | 0 | 0 | 1.12 | 29.21 | 208 | 29.18 | 208 |
| 60 | 0 | 0 | 0 | 1.12 | 29.24 | 208 | 29.21 | 208 |
| 70 | 0 | 0 | 0 | 1.12 | 29.27 | 208 | 29.24 | 208 |
| 80 | 0 | 0 | 0 | 1.12 | 29.3 | 208 | 29.26 | 208 |
| 90 | 0 | 0 | 0 | 1.12 | 29.32 | 208 | 29.29 | 208 |
| 100 | 0 | 0 | 0 | 1.12 | 29.34 | 207 | 29.32 | 208 |
| 110 | 0 | 0 | 0 | 1.12 | 29.36 | 207 | 29.35 | 207 |
| 120 | 0 | 0 | 0 | 1.12 | 29.38 | 207 | 29.37 | 207 |
| 130 | 0 | 0 | 0 | 1.12 | 29.4 | 207 | 29.39 | 207 |
| 167 | 0 | 0 | 0 | 1.12 | 29.47 | 207 | 29.46 | 207 |
| 212 | 0 | 0 | 0 | 1.12 | 29.56 | 206 | 29.55 | 206 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 76.89 | 1000 | 76.88 | 1000* |
| 20 | 0 | 0 | 0 | 1.12 | 76.7 | 208 | 76.67 | 208 |
| 30 | 0 | 0 | 0 | 1.12 | 76.73 | 208 | 76.7 | 208 |
| 40 | 0 | 0 | 0 | 1.12 | 76.76 | 208 | 76.73 | 208 |
| 50 | 0 | 0 | 0 | 1.12 | 76.79 | 208 | 76.76 | 208 |
| 60 | 0 | 0 | 0 | 1.12 | 76.82 | 208 | 76.79 | 208 |
| 70 | 0 | 0 | 0 | 1.12 | 76.85 | 208 | 76.82 | 208 |
| 80 | 0 | 0 | 0 | 1.12 | 76.88 | 208 | 76.85 | 208 |
| 90 | 0 | 0 | 0 | 1.12 | 76.9 | 208 | 76.87 | 208 |
| 100 | 0 | 0 | 0 | 1.12 | 76.92 | 208 | 76.9 | 208 |
| 110 | 0 | 0 | 0 | 1.12 | 76.94 | 208 | 76.93 | 208 |
| 120 | 0 | 0 | 0 | 1.12 | 76.96 | 208 | 76.95 | 208 |
| 130 | 0 | 0 | 0 | 1.12 | 76.97 | 208 | 76.97 | 208 |
| 167 | 0 | 0 | 0 | 1.12 | 77.05 | 207 | 77.04 | 207 |
| 212 | 0 | 0 | 0 | 1.12 | 77.13 | 207 | 77.13 | 207 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3-9 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-11 |
| 100.00 | 6-8 | 6-8 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 |
| 125.00 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 |
| 150.00 | 15-1 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-8 |
| 175.00 | 20-7 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-5 | 21-6 |
| 200.00 | 27-1 | 27-3 | 27-4 | 27-6 | 27-7 | 27-9 | 27-10 | 28-0 | 28-1 | 28-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3-9 | 3-9 | 3-9 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-11 |
| 100.00 | 6-8 | 6-9 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 |
| 125.00 | 10-6 | 10-6 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-10 |
| 150.00 | 15-2 | 15-3 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-7 | 15-8 | 15-8 |
| 175.00 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-4 | 21-4 | 21-5 | 21-6 |
| 200.00 | 27-2 | 27-4 | 27-6 | 27-7 | 27-9 | 27-10 | 28-0 | 28-1 | 28-2 | 28-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.159

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 |
| 125.00 | 11-2 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 |
| 150.00 | 16-2 | 16-2 | 16-2 | 16-3 | 16-3 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 |
| 175.00 | 22-2 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 | 22-3 | 22-3 | 22-4 | 22-4 |
| 200.00 | 29-1 | 29-1 | 29-2 | 29-2 | 29-2 | 29-3 | 29-3 | 29-4 | 29-4 | 29-4 |
| 225.00 | 37-1 | 37-1 | 37-2 | 37-2 | 37-3 | 37-3 | 37-4 | 37-4 | 37-5 | 37-5 |
| 250.00 | 46-2 | 46-2 | 46-3 | 46-3 | 46-4 | 46-4 | 46-5 | 46-6 | 46-6 | 46-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 |
| 125.00 | 11-2 | 11-2 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 |
| 150.00 | 16-2 | 16-2 | 16-3 | 16-3 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 | 16-4 |
| 175.00 | 22-2 | 22-2 | 22-2 | 22-3 | 22-3 | 22-3 | 22-3 | 22-4 | 22-4 | 22-4 |
| 200.00 | 29-1 | 29-2 | 29-2 | 29-2 | 29-3 | 29-3 | 29-4 | 29-4 | 29-4 | 29-4 |
| 225.00 | 37-1 | 37-2 | 37-2 | 37-3 | 37-3 | 37-4 | 37-4 | 37-4 | 37-5 | 37-5 |
| 250.00 | 46-2 | 46-3 | 46-3 | 46-4 | 46-4 | 46-5 | 46-6 | 46-6 | 46-6 | 46-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 |
| 175.00 | 24-10 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 |
| 200.00 | 32-8 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-10 |
| 225.00 | 41-9 | 41-9 | 41-9 | 41-10 | 41-10 | 41-10 | 41-10 | 41-10 | 41-10 | 41-11 |
| 250.00 | 52-1 | 52-1 | 52-1 | 52-1 | 52-2 | 52-2 | 52-2 | 52-2 | 52-2 | 52-3 |
| 275.00 | 63-8 | 63-8 | 63-9 | 63-9 | 63-9 | 63-9 | 63-10 | 63-10 | 63-10 | 63-11 |
| 300.00 | 76-8 | 76-8 | 76-9 | 76-9 | 76-9 | 76-10 | 76-10 | 76-10 | 76-11 | 76-11 |
| 325.00 | 91-2 | 91-2 | 91-3 | 91-3 | 91-3 | 91-4 | 91-4 | 91-5 | 91-5 | 91-5 |
| 350.00 | 107-2 | 107-3 | 107-3 | 107-4 | 107-4 | 107-5 | 107-5 | 107-6 | 107-6 | 107-7 |
| 375.00 | 124-10 | 124-11 | 125-0 | 125-0 | 125-1 | 125-1 | 125-2 | 125-3 | 125-3 | 125-4 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 |
| 175.00 | 24-10 | 24-10 | 24-10 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 |
| 200.00 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-10 | 32-10 |
| 225.00 | 41-9 | 41-9 | 41-10 | 41-10 | 41-10 | 41-10 | 41-10 | 41-10 | 41-11 | 41-11 |
| 250.00 | 52-1 | 52-1 | 52-1 | 52-2 | 52-2 | 52-2 | 52-2 | 52-2 | 52-3 | 52-3 |
| 275.00 | 63-8 | 63-9 | 63-9 | 63-9 | 63-9 | 63-10 | 63-10 | 63-10 | 63-10 | 63-11 |
| 300.00 | 76-8 | 76-9 | 76-9 | 76-9 | 76-10 | 76-10 | 76-11 | 76-11 | 76-11 | 76-11 |
| 325.00 | 91-2 | 91-3 | 91-3 | 91-3 | 91-4 | 91-4 | 91-5 | 91-5 | 91-5 | 91-6 |
| 350.00 | 107-3 | 107-3 | 107-4 | 107-4 | 107-5 | 107-5 | 107-6 | 107-6 | 107-6 | 107-7 |
| 375.00 | 124-11 | 125-0 | 125-0 | 125-1 | 125-1 | 125-2 | 125-3 | 125-3 | 125-4 | 125-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.161

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 4.53 | 1499 | 4.53 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 4.15 | 339 | 4.1 | 344 |
| 30 | 0 | 0 | 0 | 1.12 | 4.2 | 336 | 4.15 | 340 |
| 40 | 0 | 0 | 0 | 1.12 | 4.25 | 332 | 4.2 | 336 |
| 50 | 0 | 0 | 0 | 1.12 | 4.3 | 328 | 4.24 | 332 |
| 60 | 0 | 0 | 0 | 1.12 | 4.34 | 325 | 4.29 | 329 |
| 70 | 0 | 0 | 0 | 1.12 | 4.39 | 321 | 4.33 | 326 |
| 80 | 0 | 0 | 0 | 1.12 | 4.43 | 318 | 4.38 | 322 |
| 90 | 0 | 0 | 0 | 1.12 | 4.48 | 315 | 4.42 | 319 |
| 100 | 0 | 0 | 0 | 1.12 | 4.52 | 312 | 4.47 | 316 |
| 110 | 0 | 0 | 0 | 1.12 | 4.55 | 310 | 4.51 | 313 |
| 120 | 0 | 0 | 0 | 1.12 | 4.58 | 308 | 4.56 | 310 |
| 130 | 0 | 0 | 0 | 1.12 | 4.61 | 306 | 4.6 | 307 |
| 167 | 0 | 0 | 0 | 1.12 | 4.72 | 300 | 4.71 | 300 |
| 212 | 0 | 0 | 0 | 1.12 | 4.84 | 292 | 4.83 | 292 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 18.6 | 1500 | 18.6 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 18.23 | 317 | 18.18 | 318 |
| 30 | 0 | 0 | 0 | 1.12 | 18.28 | 317 | 18.23 | 317 |
| 40 | 0 | 0 | 0 | 1.12 | 18.32 | 316 | 18.27 | 317 |
| 50 | 0 | 0 | 0 | 1.12 | 18.37 | 315 | 18.32 | 316 |
| 60 | 0 | 0 | 0 | 1.12 | 18.42 | 314 | 18.36 | 315 |
| 70 | 0 | 0 | 0 | 1.12 | 18.46 | 314 | 18.41 | 315 |
| 80 | 0 | 0 | 0 | 1.12 | 18.51 | 313 | 18.45 | 314 |
| 90 | 0 | 0 | 0 | 1.12 | 18.55 | 312 | 18.49 | 313 |
| 100 | 0 | 0 | 0 | 1.12 | 18.6 | 312 | 18.54 | 312 |
| 110 | 0 | 0 | 0 | 1.12 | 18.63 | 311 | 18.58 | 312 |
| 120 | 0 | 0 | 0 | 1.12 | 18.66 | 311 | 18.63 | 311 |
| 130 | 0 | 0 | 0 | 1.12 | 18.69 | 310 | 18.67 | 310 |
| 167 | 0 | 0 | 0 | 1.12 | 18.79 | 309 | 18.79 | 309 |
| 212 | 0 | 0 | 0 | 1.12 | 18.93 | 307 | 18.92 | 307 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 43.95 | 1500 | 43.95 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 43.58 | 314 | 43.53 | 314 |
| 30 | 0 | 0 | 0 | 1.12 | 43.63 | 313 | 43.58 | 314 |
| 40 | 0 | 0 | 0 | 1.12 | 43.67 | 313 | 43.62 | 313 |
| 50 | 0 | 0 | 0 | 1.12 | 43.72 | 313 | 43.67 | 313 |
| 60 | 0 | 0 | 0 | 1.12 | 43.76 | 313 | 43.71 | 313 |
| 70 | 0 | 0 | 0 | 1.12 | 43.81 | 312 | 43.75 | 313 |
| 80 | 0 | 0 | 0 | 1.12 | 43.85 | 312 | 43.8 | 312 |
| 90 | 0 | 0 | 0 | 1.12 | 43.9 | 312 | 43.84 | 312 |
| 100 | 0 | 0 | 0 | 1.12 | 43.94 | 312 | 43.89 | 312 |
| 110 | 0 | 0 | 0 | 1.12 | 43.97 | 311 | 43.93 | 312 |
| 120 | 0 | 0 | 0 | 1.12 | 44 | 311 | 43.97 | 311 |
| 130 | 0 | 0 | 0 | 1.12 | 44.03 | 311 | 44.02 | 311 |
| 167 | 0 | 0 | 0 | 1.12 | 44.14 | 310 | 44.13 | 310 |
| 212 | 0 | 0 | 0 | 1.12 | 44.27 | 310 | 44.27 | 310 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 85.1 | 1500 | 85.1 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 84.74 | 312 | 84.69 | 313 |
| 30 | 0 | 0 | 0 | 1.12 | 84.78 | 312 | 84.73 | 312 |
| 40 | 0 | 0 | 0 | 1.12 | 84.83 | 312 | 84.78 | 312 |
| 50 | 0 | 0 | 0 | 1.12 | 84.87 | 312 | 84.82 | 312 |
| 60 | 0 | 0 | 0 | 1.12 | 84.91 | 312 | 84.86 | 312 |
| 70 | 0 | 0 | 0 | 1.12 | 84.96 | 312 | 84.91 | 312 |
| 80 | 0 | 0 | 0 | 1.12 | 85 | 312 | 84.95 | 312 |
| 90 | 0 | 0 | 0 | 1.12 | 85.05 | 312 | 84.99 | 312 |
| 100 | 0 | 0 | 0 | 1.12 | 85.09 | 311 | 85.04 | 312 |
| 110 | 0 | 0 | 0 | 1.12 | 85.12 | 311 | 85.08 | 312 |
| 120 | 0 | 0 | 0 | 1.12 | 85.15 | 311 | 85.12 | 311 |
| 130 | 0 | 0 | 0 | 1.12 | 85.18 | 311 | 85.17 | 311 |
| 167 | 0 | 0 | 0 | 1.12 | 85.29 | 311 | 85.28 | 311 |
| 212 | 0 | 0 | 0 | 1.12 | 85.42 | 311 | 85.41 | 311 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 158.51 | 1500 | 158.51 | 1500* |
| 20 | 0 | 0 | 0 | 1.12 | 158.17 | 312 | 158.12 | 312 |
| 30 | 0 | 0 | 0 | 1.12 | 158.21 | 312 | 158.16 | 312 |
| 40 | 0 | 0 | 0 | 1.12 | 158.25 | 312 | 158.2 | 312 |
| 50 | 0 | 0 | 0 | 1.12 | 158.29 | 312 | 158.25 | 312 |
| 60 | 0 | 0 | 0 | 1.12 | 158.34 | 312 | 158.29 | 312 |
| 70 | 0 | 0 | 0 | 1.12 | 158.38 | 312 | 158.33 | 312 |
| 80 | 0 | 0 | 0 | 1.12 | 158.42 | 312 | 158.37 | 312 |
| 90 | 0 | 0 | 0 | 1.12 | 158.46 | 312 | 158.41 | 312 |
| 100 | 0 | 0 | 0 | 1.12 | 158.51 | 311 | 158.45 | 312 |
| 110 | 0 | 0 | 0 | 1.12 | 158.54 | 311 | 158.49 | 311 |
| 120 | 0 | 0 | 0 | 1.12 | 158.56 | 311 | 158.54 | 311 |
| 130 | 0 | 0 | 0 | 1.12 | 158.59 | 311 | 158.58 | 311 |
| 167 | 0 | 0 | 0 | 1.12 | 158.7 | 311 | 158.69 | 311 |
| 212 | 0 | 0 | 0 | 1.12 | 158.82 | 311 | 158.81 | 311 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-4 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 |
| 100.00 | 4-1 | 4-2 | 4-2 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 |
| 125.00 | 6-5 | 6-6 | 6-7 | 6-8 | 6-9 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 |
| 150.00 | 9-3 | 9-4 | 9-6 | 9-7 | 9-8 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 |
| 175.00 | 12-7 | 12-9 | 12-11 | 13-1 | 13-2 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 |
| 200.00 | 16-6 | 16-8 | 16-11 | 17-1 | 17-3 | 17-6 | 17-8 | 17-10 | 18-0 | 18-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-4 | 2-4 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 |
| 100.00 | 4-2 | 4-2 | 4-3 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 |
| 125.00 | 6-6 | 6-7 | 6-8 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 |
| 150.00 | 9-4 | 9-6 | 9-7 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 | 10-3 | 10-3 |
| 175.00 | 12-9 | 12-11 | 13-1 | 13-3 | 13-4 | 13-6 | 13-8 | 13-10 | 13-11 | 14-0 |
| 200.00 | 16-9 | 16-11 | 17-1 | 17-4 | 17-6 | 17-8 | 17-11 | 18-1 | 18-3 | 18-4 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-6 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 |
| 125.00 | 7-1 | 7-1 | 7-1 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-2 | 7-3 |
| 150.00 | 10-2 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 |
| 175.00 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-2 | 14-2 |
| 200.00 | 18-2 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-5 | 18-6 | 18-6 | 18-7 |
| 225.00 | 23-1 | 23-2 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 | 23-6 | 23-6 | 23-7 |
| 250.00 | 28-7 | 28-8 | 28-9 | 28-10 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-6 | 4-6 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 |
| 125.00 | 7-1 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 |
| 150.00 | 10-2 | 10-3 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 |
| 175.00 | 13-11 | 14-0 | 14-0 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-2 | 14-3 |
| 200.00 | 18-3 | 18-3 | 18-4 | 18-4 | 18-5 | 18-6 | 18-6 | 18-7 | 18-7 | 18-8 |
| 225.00 | 23-2 | 23-2 | 23-3 | 23-4 | 23-4 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 |
| 250.00 | 28-8 | 28-9 | 28-10 | 28-11 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 10-8 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 |
| 175.00 | 14-7 | 14-7 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-8 | 14-8 |
| 200.00 | 19-1 | 19-1 | 19-1 | 19-1 | 19-2 | 19-2 | 19-2 | 19-2 | 19-3 | 19-3 |
| 225.00 | 24-2 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 | 24-4 | 24-4 | 24-5 | 24-5 |
| 250.00 | 30-0 | 30-0 | 30-1 | 30-1 | 30-1 | 30-2 | 30-2 | 30-2 | 30-3 | 30-3 |
| 275.00 | 36-5 | 36-6 | 36-6 | 36-6 | 36-7 | 36-7 | 36-8 | 36-8 | 36-9 | 36-9 |
| 300.00 | 43-6 | 43-7 | 43-7 | 43-8 | 43-9 | 43-9 | 43-10 | 43-10 | 43-11 | 43-11 |
| 325.00 | 51-4 | 51-5 | 51-5 | 51-6 | 51-6 | 51-7 | 51-8 | 51-8 | 51-9 | 51-10 |
| 350.00 | 59-10 | 59-11 | 59-11 | 60-0 | 60-1 | 60-2 | 60-2 | 60-3 | 60-4 | 60-5 |
| 375.00 | 69-0 | 69-1 | 69-2 | 69-3 | 69-4 | 69-5 | 69-6 | 69-7 | 69-7 | 69-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 10-8 | 10-8 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 |
| 175.00 | 14-7 | 14-7 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-8 | 14-8 | 14-8 |
| 200.00 | 19-1 | 19-1 | 19-1 | 19-2 | 19-2 | 19-2 | 19-2 | 19-3 | 19-3 | 19-3 |
| 225.00 | 24-3 | 24-3 | 24-3 | 24-4 | 24-4 | 24-4 | 24-5 | 24-5 | 24-5 | 24-5 |
| 250.00 | 30-0 | 30-1 | 30-1 | 30-1 | 30-2 | 30-2 | 30-2 | 30-3 | 30-3 | 30-3 |
| 275.00 | 36-6 | 36-6 | 36-6 | 36-7 | 36-7 | 36-8 | 36-8 | 36-9 | 36-9 | 36-9 |
| 300.00 | 43-7 | 43-8 | 43-8 | 43-9 | 43-9 | 43-10 | 43-10 | 43-11 | 43-11 | 44-0 |
| 325.00 | 51-5 | 51-5 | 51-6 | 51-7 | 51-7 | 51-8 | 51-8 | 51-9 | 51-10 | 51-10 |
| 350.00 | 59-11 | 59-11 | 60-0 | 60-1 | 60-2 | 60-2 | 60-3 | 60-4 | 60-5 | 60-5 |
| 375.00 | 69-1 | 69-2 | 69-3 | 69-4 | 69-5 | 69-6 | 69-7 | 69-8 | 69-8 | 69-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 20-4 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 |
| 225.00 | 25-10 | 25-10 | 25-10 | 25-10 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 |
| 250.00 | 32-0 | 32-0 | 32-1 | 32-1 | 32-1 | 32-1 | 32-1 | 32-2 | 32-2 | 32-2 |
| 275.00 | 38-11 | 38-11 | 38-11 | 39-0 | 39-0 | 39-0 | 39-0 | 39-1 | 39-1 | 39-1 |
| 300.00 | 46-6 | 46-7 | 46-7 | 46-7 | 46-8 | 46-8 | 46-8 | 46-8 | 46-9 | 46-9 |
| 325.00 | 54-11 | 54-11 | 55-0 | 55-0 | 55-0 | 55-1 | 55-1 | 55-1 | 55-1 | 55-2 |
| 350.00 | 64-0 | 64-1 | 64-1 | 64-2 | 64-2 | 64-2 | 64-3 | 64-3 | 64-4 | 64-4 |
| 375.00 | 73-11 | 74-0 | 74-0 | 74-1 | 74-1 | 74-2 | 74-2 | 74-3 | 74-3 | 74-4 |
| 400.00 | 84-8 | 84-9 | 84-9 | 84-10 | 84-10 | 84-11 | 84-11 | 85-0 | 85-0 | 85-1 |
| 425.00 | 96-3 | 96-4 | 96-4 | 96-5 | 96-6 | 96-6 | 96-7 | 96-7 | 96-8 | 96-9 |
| 450.00 | 108-8 | 108-9 | 108-10 | 108-11 | 108-11 | 109-0 | 109-1 | 109-1 | 109-2 | 109-3 |
| 475.00 | 122-1 | 122-1 | 122-2 | 122-3 | 122-4 | 122-5 | 122-5 | 122-6 | 122-7 | 122-8 |
| 500.00 | 136-4 | 136-5 | 136-6 | 136-7 | 136-8 | 136-8 | 136-9 | 136-10 | 136-11 | 137-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 20-4 | 20-4 | 20-4 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 |
| 225.00 | 25-10 | 25-10 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 26-0 |
| 250.00 | 32-1 | 32-1 | 32-1 | 32-1 | 32-1 | 32-1 | 32-2 | 32-2 | 32-2 | 32-2 |
| 275.00 | 38-11 | 39-0 | 39-0 | 39-0 | 39-0 | 39-0 | 39-1 | 39-1 | 39-1 | 39-1 |
| 300.00 | 46-7 | 46-7 | 46-7 | 46-8 | 46-8 | 46-8 | 46-8 | 46-9 | 46-9 | 46-9 |
| 325.00 | 54-11 | 55-0 | 55-0 | 55-0 | 55-1 | 55-1 | 55-1 | 55-2 | 55-2 | 55-2 |
| 350.00 | 64-1 | 64-1 | 64-2 | 64-2 | 64-2 | 64-3 | 64-3 | 64-4 | 64-4 | 64-4 |
| 375.00 | 74-0 | 74-0 | 74-1 | 74-1 | 74-2 | 74-2 | 74-3 | 74-3 | 74-4 | 74-4 |
| 400.00 | 84-9 | 84-9 | 84-10 | 84-10 | 84-11 | 85-0 | 85-0 | 85-1 | 85-1 | 85-1 |
| 425.00 | 96-4 | 96-4 | 96-5 | 96-6 | 96-6 | 96-7 | 96-7 | 96-8 | 96-9 | 96-9 |
| 450.00 | 108-9 | 108-10 | 108-11 | 108-11 | 109-0 | 109-1 | 109-1 | 109-2 | 109-3 | 109-3 |
| 475.00 | 122-1 | 122-2 | 122-3 | 122-4 | 122-5 | 122-5 | 122-6 | 122-7 | 122-8 | 122-8 |
| 500.00 | 136-5 | 136-6 | 136-7 | 136-8 | 136-9 | 136-9 | 136-10 | 136-11 | 137-0 | 137-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 36-6 | 36-6 | 36-6 | 36-6 | 36-6 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 |
| 275.00 | 44-5 | 44-5 | 44-5 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 |
| 300.00 | 53-2 | 53-2 | 53-2 | 53-3 | 53-3 | 53-3 | 53-3 | 53-3 | 53-3 | 53-4 |
| 325.00 | 62-10 | 62-10 | 62-10 | 62-11 | 62-11 | 62-11 | 62-11 | 62-11 | 62-11 | 63-0 |
| 350.00 | 73-5 | 73-5 | 73-5 | 73-5 | 73-6 | 73-6 | 73-6 | 73-6 | 73-6 | 73-7 |
| 375.00 | 84-11 | 84-11 | 84-11 | 85-0 | 85-0 | 85-0 | 85-0 | 85-1 | 85-1 | 85-1 |
| 400.00 | 97-5 | 97-5 | 97-6 | 97-6 | 97-6 | 97-6 | 97-7 | 97-7 | 97-7 | 97-8 |
| 425.00 | 110-11 | 111-0 | 111-0 | 111-0 | 111-1 | 111-1 | 111-1 | 111-2 | 111-2 | 111-2 |
| 450.00 | 125-6 | 125-7 | 125-7 | 125-8 | 125-8 | 125-8 | 125-9 | 125-9 | 125-9 | 125-10 |
| 475.00 | 141-3 | 141-3 | 141-4 | 141-4 | 141-5 | 141-5 | 141-6 | 141-6 | 141-6 | 141-7 |
| 500.00 | 158-1 | 158-2 | 158-2 | 158-3 | 158-3 | 158-4 | 158-4 | 158-5 | 158-5 | 158-6 |
| 525.00 | 176-3 | 176-3 | 176-4 | 176-4 | 176-5 | 176-5 | 176-6 | 176-7 | 176-7 | 176-8 |
| 550.00 | 195-7 | 195-8 | 195-9 | 195-9 | 195-10 | 195-10 | 195-11 | 196-0 | 196-0 | 196-1 |
| 575.00 | 216-4 | 216-5 | 216-5 | 216-6 | 216-7 | 216-8 | 216-8 | 216-9 | 216-10 | 216-10 |
| 600.00 | 238-6 | 238-6 | 238-7 | 238-8 | 238-9 | 238-10 | 238-10 | 238-11 | 239-0 | 239-1 |
| 625.00 | 262-1 | 262-2 | 262-3 | 262-4 | 262-5 | 262-5 | 262-6 | 262-7 | 262-8 | 262-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 36-6 | 36-6 | 36-6 | 36-6 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 |
| 275.00 | 44-5 | 44-5 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 |
| 300.00 | 53-2 | 53-3 | 53-3 | 53-3 | 53-3 | 53-3 | 53-3 | 53-3 | 53-4 | 53-4 |
| 325.00 | 62-10 | 62-10 | 62-11 | 62-11 | 62-11 | 62-11 | 62-11 | 62-11 | 63-0 | 63-0 |
| 350.00 | 73-5 | 73-5 | 73-5 | 73-6 | 73-6 | 73-6 | 73-6 | 73-7 | 73-7 | 73-7 |
| 375.00 | 84-11 | 84-11 | 85-0 | 85-0 | 85-0 | 85-1 | 85-1 | 85-1 | 85-1 | 85-1 |
| 400.00 | 97-5 | 97-6 | 97-6 | 97-6 | 97-6 | 97-7 | 97-7 | 97-7 | 97-8 | 97-8 |
| 425.00 | 111-0 | 111-0 | 111-0 | 111-1 | 111-1 | 111-1 | 111-2 | 111-2 | 111-2 | 111-3 |
| 450.00 | 125-7 | 125-7 | 125-8 | 125-8 | 125-8 | 125-9 | 125-9 | 125-10 | 125-10 | 125-10 |
| 475.00 | 141-3 | 141-4 | 141-4 | 141-5 | 141-5 | 141-6 | 141-6 | 141-7 | 141-7 | 141-7 |
| 500.00 | 158-2 | 158-3 | 158-3 | 158-4 | 158-4 | 158-5 | 158-5 | 158-6 | 158-6 | 158-6 |
| 525.00 | 176-3 | 176-4 | 176-4 | 176-5 | 176-6 | 176-6 | 176-7 | 176-7 | 176-8 | 176-8 |
| 550.00 | 195-8 | 195-9 | 195-9 | 195-10 | 195-11 | 195-11 | 196-0 | 196-1 | 196-1 | 196-2 |
| 575.00 | 216-5 | 216-5 | 216-6 | 216-7 | 216-8 | 216-8 | 216-9 | 216-10 | 216-11 | 216-11 |
| 600.00 | 238-6 | 238-7 | 238-8 | 238-9 | 238-10 | 238-11 | 238-11 | 239-0 | 239-1 | 239-2 |
| 625.00 | 262-2 | 262-3 | 262-4 | 262-5 | 262-6 | 262-7 | 262-7 | 262-8 | 262-9 | 262-10 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 3.39 | 2000 | 3.39 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 2.76 | 510 | 2.64 | 531 |
| 30 | 0 | 0 | 0 | 1.12 | 2.82 | 497 | 2.71 | 518 |
| 40 | 0 | 0 | 0 | 1.12 | 2.89 | 486 | 2.78 | 505 |
| 50 | 0 | 0 | 0 | 1.12 | 2.96 | 475 | 2.85 | 494 |
| 60 | 0 | 0 | 0 | 1.12 | 3.02 | 465 | 2.91 | 483 |
| 70 | 0 | 0 | 0 | 1.12 | 3.09 | 455 | 2.97 | 472 |
| 80 | 0 | 0 | 0 | 1.12 | 3.15 | 446 | 3.04 | 463 |
| 90 | 0 | 0 | 0 | 1.12 | 3.21 | 438 | 3.1 | 453 |
| 100 | 0 | 0 | 0 | 1.12 | 3.27 | 430 | 3.16 | 445 |
| 110 | 0 | 0 | 0 | 1.12 | 3.33 | 422 | 3.22 | 437 |
| 120 | 0 | 0 | 0 | 1.12 | 3.37 | 417 | 3.28 | 429 |
| 130 | 0 | 0 | 0 | 1.12 | 3.41 | 413 | 3.34 | 421 |
| 167 | 0 | 0 | 0 | 1.12 | 3.54 | 397 | 3.53 | 399 |
| 212 | 0 | 0 | 0 | 1.12 | 3.7 | 381 | 3.68 | 382 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 13.74 | 2000 | 13.74 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 13.13 | 434 | 13.03 | 437 |
| 30 | 0 | 0 | 0 | 1.12 | 13.2 | 432 | 13.09 | 435 |
| 40 | 0 | 0 | 0 | 1.12 | 13.26 | 430 | 13.15 | 433 |
| 50 | 0 | 0 | 0 | 1.12 | 13.32 | 428 | 13.21 | 431 |
| 60 | 0 | 0 | 0 | 1.12 | 13.38 | 426 | 13.27 | 429 |
| 70 | 0 | 0 | 0 | 1.12 | 13.44 | 424 | 13.33 | 427 |
| 80 | 0 | 0 | 0 | 1.12 | 13.5 | 422 | 13.39 | 426 |
| 90 | 0 | 0 | 0 | 1.12 | 13.56 | 420 | 13.45 | 424 |
| 100 | 0 | 0 | 0 | 1.12 | 13.62 | 419 | 13.51 | 422 |
| 110 | 0 | 0 | 0 | 1.12 | 13.68 | 417 | 13.57 | 420 |
| 120 | 0 | 0 | 0 | 1.12 | 13.72 | 416 | 13.63 | 419 |
| 130 | 0 | 0 | 0 | 1.12 | 13.76 | 415 | 13.69 | 417 |
| 167 | 0 | 0 | 0 | 1.12 | 13.9 | 411 | 13.89 | 411 |
| 212 | 0 | 0 | 0 | 1.12 | 14.08 | 406 | 14.06 | 406 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 31.7 | 2000 | 31.7 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 31.1 | 423 | 31 | 424 |
| 30 | 0 | 0 | 0 | 1.12 | 31.16 | 422 | 31.06 | 423 |
| 40 | 0 | 0 | 0 | 1.12 | 31.22 | 421 | 31.12 | 422 |
| 50 | 0 | 0 | 0 | 1.12 | 31.28 | 420 | 31.18 | 422 |
| 60 | 0 | 0 | 0 | 1.12 | 31.34 | 420 | 31.24 | 421 |
| 70 | 0 | 0 | 0 | 1.12 | 31.4 | 419 | 31.3 | 420 |
| 80 | 0 | 0 | 0 | 1.12 | 31.46 | 418 | 31.36 | 419 |
| 90 | 0 | 0 | 0 | 1.12 | 31.52 | 417 | 31.41 | 419 |
| 100 | 0 | 0 | 0 | 1.12 | 31.58 | 417 | 31.47 | 418 |
| 110 | 0 | 0 | 0 | 1.12 | 31.64 | 416 | 31.53 | 417 |
| 120 | 0 | 0 | 0 | 1.12 | 31.68 | 416 | 31.59 | 417 |
| 130 | 0 | 0 | 0 | 1.12 | 31.72 | 415 | 31.65 | 416 |
| 167 | 0 | 0 | 0 | 1.12 | 31.87 | 413 | 31.85 | 413 |
| 212 | 0 | 0 | 0 | 1.12 | 32.04 | 411 | 32.03 | 411 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| °F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 58.6 | 2000 | 58.6 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 58.01 | 419 | 57.9 | 419 |
| 30 | 0 | 0 | 0 | 1.12 | 58.07 | 419 | 57.96 | 419 |
| 40 | 0 | 0 | 0 | 1.12 | 58.13 | 418 | 58.02 | 419 |
| 50 | 0 | 0 | 0 | 1.12 | 58.19 | 418 | 58.08 | 418 |
| 60 | 0 | 0 | 0 | 1.12 | 58.25 | 417 | 58.14 | 418 |
| 70 | 0 | 0 | 0 | 1.12 | 58.3 | 417 | 58.2 | 418 |
| 80 | 0 | 0 | 0 | 1.12 | 58.36 | 417 | 58.26 | 417 |
| 90 | 0 | 0 | 0 | 1.12 | 58.42 | 416 | 58.31 | 417 |
| 100 | 0 | 0 | 0 | 1.12 | 58.48 | 416 | 58.37 | 417 |
| 110 | 0 | 0 | 0 | 1.12 | 58.54 | 416 | 58.43 | 416 |
| 120 | 0 | 0 | 0 | 1.12 | 58.58 | 415 | 58.49 | 416 |
| 130 | 0 | 0 | 0 | 1.12 | 58.62 | 415 | 58.55 | 416 |
| 167 | 0 | 0 | 0 | 1.12 | 58.77 | 414 | 58.75 | 414 |
| 212 | 0 | 0 | 0 | 1.12 | 58.94 | 413 | 58.93 | 413 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 50 | 0 | 31.5 | 0 | 5.394 | 97.14 | 2000 | 97.14 | 2000* |
| 20 | 0 | 0 | 0 | 1.12 | 96.55 | 417 | 96.45 | 417 |
| 30 | 0 | 0 | 0 | 1.12 | 96.61 | 417 | 96.51 | 417 |
| 40 | 0 | 0 | 0 | 1.12 | 96.67 | 417 | 96.57 | 417 |
| 50 | 0 | 0 | 0 | 1.12 | 96.73 | 417 | 96.63 | 417 |
| 60 | 0 | 0 | 0 | 1.12 | 96.79 | 416 | 96.68 | 417 |
| 70 | 0 | 0 | 0 | 1.12 | 96.85 | 416 | 96.74 | 417 |
| 80 | 0 | 0 | 0 | 1.12 | 96.91 | 416 | 96.8 | 416 |
| 90 | 0 | 0 | 0 | 1.12 | 96.97 | 416 | 96.86 | 416 |
| 100 | 0 | 0 | 0 | 1.12 | 97.02 | 416 | 96.92 | 416 |
| 110 | 0 | 0 | 0 | 1.12 | 97.08 | 415 | 96.97 | 416 |
| 120 | 0 | 0 | 0 | 1.12 | 97.12 | 415 | 97.03 | 416 |
| 130 | 0 | 0 | 0 | 1.12 | 97.16 | 415 | 97.09 | 415 |
| 167 | 0 | 0 | 0 | 1.12 | 97.31 | 415 | 97.29 | 415 |
| 212 | 0 | 0 | 0 | 1.12 | 97.48 | 414 | 97.47 | 414 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 1-6 | 1-6 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 |
| 100.00 | 2-8 | 2-9 | 2-9 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 |
| 125.00 | 4-2 | 4-3 | 4-4 | 4-5 | 4-7 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 |
| 150.00 | 5-11 | 6-1 | 6-3 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 |
| 175.00 | 8-1 | 8-4 | 8-6 | 8-9 | 8-11 | 9-2 | 9-4 | 9-6 | 9-8 | 9-11 |
| 200.00 | 10-7 | 10-11 | 11-2 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75.00 | 1-7 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 |
| 100.00 | 2-9 | 2-10 | 2-11 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 |
| 125.00 | 4-4 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-3 |
| 150.00 | 6-2 | 6-4 | 6-6 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 |
| 175.00 | 8-5 | 8-8 | 8-11 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-1 | 10-3 |
| 200.00 | 11-1 | 11-4 | 11-7 | 11-10 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-3 | 3-3 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-5 |
| 125.00 | 5-1 | 5-1 | 5-1 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-3 |
| 150.00 | 7-4 | 7-4 | 7-5 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 |
| 175.00 | 10-0 | 10-0 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-5 |
| 200.00 | 13-0 | 13-1 | 13-2 | 13-3 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 |
| 225.00 | 16-6 | 16-7 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-2 | 17-2 |
| 250.00 | 20-5 | 20-6 | 20-7 | 20-9 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-3 | 3-3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 |
| 125.00 | 5-1 | 5-2 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 |
| 150.00 | 7-4 | 7-5 | 7-5 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 |
| 175.00 | 10-1 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 |
| 200.00 | 13-2 | 13-2 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 |
| 225.00 | 16-8 | 16-9 | 16-10 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 |
| 250.00 | 20-7 | 20-8 | 20-9 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-8 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 |
| 175.00 | 10-5 | 10-6 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-7 | 10-8 |
| 200.00 | 13-8 | 13-8 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 |
| 225.00 | 17-4 | 17-4 | 17-5 | 17-5 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 | 17-8 |
| 250.00 | 21-5 | 21-6 | 21-6 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 |
| 275.00 | 26-0 | 26-0 | 26-1 | 26-2 | 26-2 | 26-3 | 26-3 | 26-4 | 26-5 | 26-5 |
| 300.00 | 31-0 | 31-1 | 31-1 | 31-2 | 31-3 | 31-4 | 31-4 | 31-5 | 31-6 | 31-6 |
| 325.00 | 36-6 | 36-6 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 37-0 | 37-0 | 37-1 |
| 350.00 | 42-5 | 42-6 | 42-7 | 42-8 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 |
| 375.00 | 48-10 | 48-11 | 49-0 | 49-1 | 49-2 | 49-3 | 49-5 | 49-6 | 49-7 | 49-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 7-8 | 7-9 | 7-9 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 |
| 175.00 | 10-6 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 |
| 200.00 | 13-9 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 |
| 225.00 | 17-5 | 17-5 | 17-5 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 |
| 250.00 | 21-6 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 |
| 275.00 | 26-1 | 26-2 | 26-2 | 26-3 | 26-3 | 26-4 | 26-5 | 26-5 | 26-6 | 26-6 |
| 300.00 | 31-1 | 31-2 | 31-3 | 31-3 | 31-4 | 31-5 | 31-6 | 31-6 | 31-7 | 31-8 |
| 325.00 | 36-7 | 36-8 | 36-9 | 36-10 | 36-11 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 |
| 350.00 | 42-7 | 42-8 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 |
| 375.00 | 49-0 | 49-1 | 49-2 | 49-3 | 49-4 | 49-6 | 49-7 | 49-8 | 49-9 | 49-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.175

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 14-2 | 14-2 | 14-3 | 14-3 | 14-3 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 |
| 225.00 | 18-0 | 18-0 | 18-0 | 18-1 | 18-1 | 18-1 | 18-1 | 18-1 | 18-2 | 18-2 |
| 250.00 | 22-3 | 22-3 | 22-4 | 22-4 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 | 22-5 |
| 275.00 | 27-0 | 27-0 | 27-1 | 27-1 | 27-1 | 27-1 | 27-2 | 27-2 | 27-2 | 27-3 |
| 300.00 | 32-2 | 32-3 | 32-3 | 32-4 | 32-4 | 32-4 | 32-5 | 32-5 | 32-5 | 32-6 |
| 325.00 | 37-11 | 37-11 | 38-0 | 38-0 | 38-0 | 38-1 | 38-1 | 38-2 | 38-2 | 38-3 |
| 350.00 | 44-1 | 44-1 | 44-2 | 44-2 | 44-3 | 44-3 | 44-4 | 44-4 | 44-5 | 44-5 |
| 375.00 | 50-9 | 50-9 | 50-10 | 50-11 | 50-11 | 51-0 | 51-0 | 51-1 | 51-2 | 51-2 |
| 400.00 | 57-11 | 58-0 | 58-0 | 58-1 | 58-2 | 58-2 | 58-3 | 58-4 | 58-4 | 58-5 |
| 425.00 | 65-7 | 65-8 | 65-9 | 65-9 | 65-10 | 65-11 | 66-0 | 66-1 | 66-2 | 66-2 |
| 450.00 | 73-10 | 73-11 | 73-11 | 74-0 | 74-1 | 74-2 | 74-3 | 74-4 | 74-5 | 74-6 |
| 475.00 | 82-6 | 82-8 | 82-9 | 82-10 | 82-11 | 83-0 | 83-1 | 83-2 | 83-3 | 83-4 |
| 500.00 | 91-10 | 91-11 | 92-0 | 92-1 | 92-2 | 92-4 | 92-5 | 92-6 | 92-7 | 92-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 14-3 | 14-3 | 14-3 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-4 |
| 225.00 | 18-0 | 18-1 | 18-1 | 18-1 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 | 18-2 |
| 250.00 | 22-4 | 22-4 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 |
| 275.00 | 27-0 | 27-1 | 27-1 | 27-1 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 |
| 300.00 | 32-3 | 32-3 | 32-4 | 32-4 | 32-5 | 32-5 | 32-5 | 32-6 | 32-6 | 32-7 |
| 325.00 | 37-11 | 38-0 | 38-0 | 38-1 | 38-1 | 38-2 | 38-2 | 38-3 | 38-3 | 38-4 |
| 350.00 | 44-2 | 44-2 | 44-3 | 44-3 | 44-4 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 |
| 375.00 | 50-10 | 50-10 | 50-11 | 51-0 | 51-0 | 51-1 | 51-2 | 51-2 | 51-3 | 51-3 |
| 400.00 | 58-0 | 58-1 | 58-2 | 58-2 | 58-3 | 58-4 | 58-4 | 58-5 | 58-6 | 58-7 |
| 425.00 | 65-8 | 65-9 | 65-10 | 65-11 | 66-0 | 66-1 | 66-1 | 66-2 | 66-3 | 66-4 |
| 450.00 | 73-11 | 74-0 | 74-1 | 74-2 | 74-3 | 74-4 | 74-5 | 74-6 | 74-7 | 74-7 |
| 475.00 | 82-8 | 82-9 | 82-10 | 82-11 | 83-0 | 83-1 | 83-3 | 83-4 | 83-5 | 83-6 |
| 500.00 | 92-0 | 92-1 | 92-2 | 92-3 | 92-5 | 92-6 | 92-7 | 92-8 | 92-9 | 92-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 23-4 | 23-4 | 23-4 | 23-4 | 23-4 | 23-5 | 23-5 | 23-5 | 23-5 | 23-5 |
| 275.00 | 28-3 | 28-3 | 28-4 | 28-4 | 28-4 | 28-4 | 28-4 | 28-5 | 28-5 | 28-5 |
| 300.00 | 33-9 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-10 | 33-11 | 33-11 |
| 325.00 | 39-8 | 39-9 | 39-9 | 39-9 | 39-10 | 39-10 | 39-10 | 39-10 | 39-11 | 39-11 |
| 350.00 | 46-2 | 46-3 | 46-3 | 46-3 | 46-4 | 46-4 | 46-4 | 46-4 | 46-5 | 46-5 |
| 375.00 | 53-2 | 53-3 | 53-3 | 53-3 | 53-4 | 53-4 | 53-5 | 53-5 | 53-5 | 53-6 |
| 400.00 | 60-9 | 60-9 | 60-10 | 60-10 | 60-11 | 60-11 | 60-11 | 61-0 | 61-0 | 61-1 |
| 425.00 | 68-10 | 68-10 | 68-11 | 68-11 | 69-0 | 69-0 | 69-1 | 69-1 | 69-2 | 69-2 |
| 450.00 | 77-6 | 77-6 | 77-7 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 | 77-10 | 77-10 |
| 475.00 | 86-8 | 86-9 | 86-9 | 86-10 | 86-10 | 86-11 | 87-0 | 87-0 | 87-1 | 87-2 |
| 500.00 | 96-5 | 96-6 | 96-7 | 96-8 | 96-8 | 96-9 | 96-10 | 96-10 | 96-11 | 97-0 |
| 525.00 | 106-10 | 106-11 | 106-11 | 107-0 | 107-1 | 107-2 | 107-3 | 107-3 | 107-4 | 107-5 |
| 550.00 | 117-10 | 117-11 | 117-11 | 118-0 | 118-1 | 118-2 | 118-3 | 118-4 | 118-5 | 118-6 |
| 575.00 | 129-5 | 129-6 | 129-7 | 129-8 | 129-9 | 129-10 | 129-11 | 130-0 | 130-1 | 130-2 |
| 600.00 | 141-8 | 141-9 | 141-10 | 141-11 | 142-0 | 142-1 | 142-2 | 142-3 | 142-4 | 142-5 |
| 625.00 | 154-7 | 154-8 | 154-9 | 154-10 | 154-11 | 155-0 | 155-2 | 155-3 | 155-4 | 155-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 23-4 | 23-4 | 23-4 | 23-4 | 23-5 | 23-5 | 23-5 | 23-5 | 23-5 | 23-5 |
| 275.00 | 28-4 | 28-4 | 28-4 | 28-4 | 28-4 | 28-5 | 28-5 | 28-5 | 28-5 | 28-5 |
| 300.00 | 33-9 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-11 | 33-11 | 33-11 | 33-11 |
| 325.00 | 39-9 | 39-9 | 39-9 | 39-10 | 39-10 | 39-10 | 39-11 | 39-11 | 39-11 | 39-11 |
| 350.00 | 46-3 | 46-3 | 46-3 | 46-4 | 46-4 | 46-4 | 46-5 | 46-5 | 46-5 | 46-6 |
| 375.00 | 53-3 | 53-3 | 53-4 | 53-4 | 53-5 | 53-5 | 53-5 | 53-6 | 53-6 | 53-6 |
| 400.00 | 60-10 | 60-10 | 60-10 | 60-11 | 60-11 | 61-0 | 61-0 | 61-1 | 61-1 | 61-1 |
| 425.00 | 68-11 | 68-11 | 69-0 | 69-0 | 69-1 | 69-1 | 69-2 | 69-2 | 69-3 | 69-3 |
| 450.00 | 77-6 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 | 77-10 | 77-10 | 77-11 | 78-0 |
| 475.00 | 86-9 | 86-10 | 86-10 | 86-11 | 87-0 | 87-0 | 87-1 | 87-2 | 87-2 | 87-3 |
| 500.00 | 96-7 | 96-7 | 96-8 | 96-9 | 96-9 | 96-10 | 96-11 | 97-0 | 97-0 | 97-1 |
| 525.00 | 106-11 | 107-0 | 107-1 | 107-2 | 107-2 | 107-3 | 107-4 | 107-5 | 107-6 | 107-6 |
| 550.00 | 117-11 | 118-0 | 118-1 | 118-2 | 118-3 | 118-4 | 118-5 | 118-5 | 118-6 | 118-7 |
| 575.00 | 129-7 | 129-8 | 129-9 | 129-10 | 129-11 | 130-0 | 130-1 | 130-1 | 130-2 | 130-3 |
| 600.00 | 141-10 | 141-11 | 142-0 | 142-1 | 142-2 | 142-3 | 142-4 | 142-5 | 142-6 | 142-7 |
| 625.00 | 154-9 | 154-10 | 154-11 | 155-0 | 155-1 | 155-3 | 155-4 | 155-5 | 155-6 | 155-7 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 6.88 | 999 | 6.87 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 6.71 | 212 | 6.67 | 214 |
| 30 | 0 | 0 | 0 | 1.12 | 6.8 | 210 | 6.77 | 210 |
| 40 | 0 | 0 | 0 | 1.12 | 6.83 | 209 | 6.8 | 210 |
| 50 | 0 | 0 | 0 | 1.12 | 6.86 | 208 | 6.83 | 209 |
| 60 | 0 | 0 | 0 | 1.12 | 6.89 | 207 | 6.86 | 208 |
| 70 | 0 | 0 | 0 | 1.12 | 6.92 | 206 | 6.89 | 207 |
| 80 | 0 | 0 | 0 | 1.12 | 6.95 | 205 | 6.92 | 206 |
| 90 | 0 | 0 | 0 | 1.12 | 6.97 | 205 | 6.95 | 205 |
| 100 | 0 | 0 | 0 | 1.12 | 6.99 | 204 | 6.98 | 205 |
| 110 | 0 | 0 | 0 | 1.12 | 7.01 | 204 | 7.01 | 204 |
| 120 | 0 | 0 | 0 | 1.12 | 7.03 | 203 | 7.03 | 203 |
| 130 | 0 | 0 | 0 | 1.12 | 7.05 | 203 | 7.04 | 203 |
| 167 | 0 | 0 | 0 | 1.12 | 7.12 | 201 | 7.12 | 201 |
| 212 | 0 | 0 | 0 | 1.12 | 7.21 | 198 | 7.2 | 198 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 29.31 | 1000 | 29.3 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 29.14 | 209 | 29.1 | 209 |
| 30 | 0 | 0 | 0 | 1.12 | 29.23 | 208 | 29.2 | 208 |
| 40 | 0 | 0 | 0 | 1.12 | 29.26 | 208 | 29.23 | 208 |
| 50 | 0 | 0 | 0 | 1.12 | 29.29 | 208 | 29.26 | 208 |
| 60 | 0 | 0 | 0 | 1.12 | 29.32 | 208 | 29.29 | 208 |
| 70 | 0 | 0 | 0 | 1.12 | 29.35 | 207 | 29.32 | 208 |
| 80 | 0 | 0 | 0 | 1.12 | 29.38 | 207 | 29.35 | 207 |
| 90 | 0 | 0 | 0 | 1.12 | 29.4 | 207 | 29.38 | 207 |
| 100 | 0 | 0 | 0 | 1.12 | 29.42 | 207 | 29.41 | 207 |
| 110 | 0 | 0 | 0 | 1.12 | 29.44 | 207 | 29.44 | 207 |
| 120 | 0 | 0 | 0 | 1.12 | 29.46 | 207 | 29.46 | 207 |
| 130 | 0 | 0 | 0 | 1.12 | 29.48 | 207 | 29.48 | 207 |
| 167 | 0 | 0 | 0 | 1.12 | 29.55 | 206 | 29.55 | 206 |
| 212 | 0 | 0 | 0 | 1.12 | 29.64 | 206 | 29.64 | 206 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 76.89 | 1000 | 76.88 | 1000* |
| 0 | 0 | 0 | 0 | 1.12 | 76.73 | 208 | 76.69 | 208 |
| 30 | 0 | 0 | 0 | 1.12 | 76.82 | 208 | 76.79 | 208 |
| 40 | 0 | 0 | 0 | 1.12 | 76.84 | 208 | 76.82 | 208 |
| 50 | 0 | 0 | 0 | 1.12 | 76.87 | 208 | 76.85 | 208 |
| 60 | 0 | 0 | 0 | 1.12 | 76.9 | 208 | 76.87 | 208 |
| 70 | 0 | 0 | 0 | 1.12 | 76.93 | 208 | 76.9 | 208 |
| 80 | 0 | 0 | 0 | 1.12 | 76.96 | 208 | 76.93 | 208 |
| 90 | 0 | 0 | 0 | 1.12 | 76.98 | 207 | 76.96 | 208 |
| 100 | 0 | 0 | 0 | 1.12 | 77 | 207 | 76.99 | 207 |
| 110 | 0 | 0 | 0 | 1.12 | 77.02 | 207 | 77.01 | 207 |
| 120 | 0 | 0 | 0 | 1.12 | 77.04 | 207 | 77.03 | 207 |
| 130 | 0 | 0 | 0 | 1.12 | 77.06 | 207 | 77.05 | 207 |
| 167 | 0 | 0 | 0 | 1.12 | 77.13 | 207 | 77.12 | 207 |
| 212 | 0 | 0 | 0 | 1.12 | 77.22 | 207 | 77.21 | 207 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3-9 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 |
| 100.00 | 6-9 | 6-9 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 |
| 125.00 | 10-7 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 |
| 150.00 | 15-3 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-8 | 15-9 | 15-10 | 15-11 |
| 175.00 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-5 | 21-6 | 21-7 | 21-8 | 21-9 |
| 200.00 | 27-5 | 27-7 | 27-9 | 27-10 | 28-0 | 28-1 | 28-3 | 28-4 | 28-5 | 28-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 3-10 | 3-10 | 3-10 | 3-10 | 3-10 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 |
| 100.00 | 6-9 | 6-10 | 6-10 | 6-10 | 6-11 | 6-11 | 6-11 | 7-0 | 7-0 | 7-0 |
| 125.00 | 10-7 | 10-8 | 10-9 | 10-9 | 10-10 | 10-10 | 10-11 | 10-11 | 11-0 | 11-0 |
| 150.00 | 15-4 | 15-5 | 15-6 | 15-7 | 15-8 | 15-8 | 15-9 | 15-10 | 15-10 | 15-11 |
| 175.00 | 21-0 | 21-1 | 21-2 | 21-3 | 21-5 | 21-6 | 21-7 | 21-8 | 21-8 | 21-9 |
| 200.00 | 27-7 | 27-8 | 27-10 | 28-0 | 28-1 | 28-3 | 28-4 | 28-5 | 28-6 | 28-7 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.180

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-3 |
| 125.00 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 |
| 150.00 | 16-3 | 16-3 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 | 16-4 | 16-4 | 16-4 |
| 175.00 | 22-2 | 22-3 | 22-3 | 22-3 | 22-3 | 22-4 | 22-4 | 22-4 | 22-4 | 22-5 |
| 200.00 | 29-2 | 29-2 | 29-3 | 29-3 | 29-4 | 29-4 | 29-4 | 29-5 | 29-5 | 29-5 |
| 225.00 | 37-2 | 37-3 | 37-3 | 37-4 | 37-4 | 37-5 | 37-5 | 37-5 | 37-6 | 37-6 |
| 250.00 | 46-3 | 46-4 | 46-4 | 46-5 | 46-6 | 46-6 | 46-7 | 46-7 | 46-8 | 46-8 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-3 |
| 125.00 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-3 | 11-4 | 11-4 | 11-4 |
| 150.00 | 16-3 | 16-3 | 16-3 | 16-3 | 16-4 | 16-4 | 16-4 | 16-4 | 16-4 | 16-4 |
| 175.00 | 22-3 | 22-3 | 22-3 | 22-3 | 22-4 | 22-4 | 22-4 | 22-4 | 22-5 | 22-5 |
| 200.00 | 29-2 | 29-3 | 29-3 | 29-4 | 29-4 | 29-4 | 29-5 | 29-5 | 29-5 | 29-5 |
| 225.00 | 37-3 | 37-3 | 37-4 | 37-4 | 37-5 | 37-5 | 37-5 | 37-6 | 37-6 | 37-6 |
| 250.00 | 46-4 | 46-4 | 46-5 | 46-6 | 46-6 | 46-7 | 46-7 | 46-8 | 46-8 | 46-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS



STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 |
| 175.00 | 24-10 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 |
| 200.00 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-10 | 32-10 | 32-10 | 32-10 |
| 225.00 | 41-10 | 41-10 | 41-10 | 41-10 | 41-10 | 41-10 | 41-11 | 41-11 | 41-11 | 41-11 |
| 250.00 | 52-1 | 52-2 | 52-2 | 52-2 | 52-2 | 52-2 | 52-3 | 52-3 | 52-3 | 52-3 |
| 275.00 | 63-9 | 63-9 | 63-9 | 63-10 | 63-10 | 63-10 | 63-11 | 63-11 | 63-11 | 63-11 |
| 300.00 | 76-9 | 76-9 | 76-10 | 76-10 | 76-10 | 76-11 | 76-11 | 77-0 | 77-0 | 77-0 |
| 325.00 | 91-3 | 91-3 | 91-4 | 91-4 | 91-5 | 91-5 | 91-5 | 91-6 | 91-6 | 91-7 |
| 350.00 | 107-4 | 107-4 | 107-5 | 107-5 | 107-6 | 107-6 | 107-7 | 107-7 | 107-8 | 107-8 |
| 375.00 | 125-0 | 125-1 | 125-1 | 125-2 | 125-3 | 125-3 | 125-4 | 125-4 | 125-5 | 125-6 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 |
| 175.00 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 | 24-11 |
| 200.00 | 32-9 | 32-9 | 32-9 | 32-9 | 32-9 | 32-10 | 32-10 | 32-10 | 32-10 | 32-10 |
| 225.00 | 41-10 | 41-10 | 41-10 | 41-10 | 41-10 | 41-11 | 41-11 | 41-11 | 41-11 | 41-11 |
| 250.00 | 52-2 | 52-2 | 52-2 | 52-2 | 52-2 | 52-3 | 52-3 | 52-3 | 52-3 | 52-3 |
| 275.00 | 63-9 | 63-9 | 63-10 | 63-10 | 63-10 | 63-11 | 63-11 | 63-11 | 63-11 | 63-11 |
| 300.00 | 76-9 | 76-10 | 76-10 | 76-10 | 76-11 | 76-11 | 77-0 | 77-0 | 77-0 | 77-0 |
| 325.00 | 91-3 | 91-4 | 91-4 | 91-5 | 91-5 | 91-6 | 91-6 | 91-6 | 91-7 | 91-7 |
| 350.00 | 107-4 | 107-5 | 107-5 | 107-6 | 107-6 | 107-7 | 107-7 | 107-8 | 107-8 | 107-8 |
| 375.00 | 125-1 | 125-1 | 125-2 | 125-3 | 125-3 | 125-4 | 125-4 | 125-5 | 125-5 | 125-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS



OH823.182

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 4.53 | 1500 | 4.53 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 4.2 | 336 | 4.14 | 340 |
| 30 | 0 | 0 | 0 | 1.12 | 4.34 | 325 | 4.28 | 329 |
| 40 | 0 | 0 | 0 | 1.12 | 4.39 | 322 | 4.33 | 326 |
| 50 | 0 | 0 | 0 | 1.12 | 4.43 | 318 | 4.38 | 322 |
| 60 | 0 | 0 | 0 | 1.12 | 4.48 | 315 | 4.42 | 319 |
| 70 | 0 | 0 | 0 | 1.12 | 4.52 | 312 | 4.46 | 316 |
| 80 | 0 | 0 | 0 | 1.12 | 4.57 | 309 | 4.51 | 313 |
| 90 | 0 | 0 | 0 | 1.12 | 4.61 | 306 | 4.55 | 310 |
| 100 | 0 | 0 | 0 | 1.12 | 4.65 | 304 | 4.6 | 307 |
| 110 | 0 | 0 | 0 | 1.12 | 4.67 | 302 | 4.64 | 304 |
| 120 | 0 | 0 | 0 | 1.12 | 4.7 | 300 | 4.68 | 302 |
| 130 | 0 | 0 | 0 | 1.12 | 4.73 | 299 | 4.72 | 299 |
| 167 | 0 | 0 | 0 | 1.12 | 4.83 | 292 | 4.83 | 293 |
| 212 | 0 | 0 | 0 | 1.12 | 4.95 | 285 | 4.95 | 286 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 18.6 | 1500 | 18.6 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 18.28 | 317 | 18.22 | 318 |
| 30 | 0 | 0 | 0 | 1.12 | 18.41 | 314 | 18.36 | 315 |
| 40 | 0 | 0 | 0 | 1.12 | 18.46 | 314 | 18.4 | 315 |
| 50 | 0 | 0 | 0 | 1.12 | 18.5 | 313 | 18.45 | 314 |
| 60 | 0 | 0 | 0 | 1.12 | 18.55 | 312 | 18.49 | 313 |
| 70 | 0 | 0 | 0 | 1.12 | 18.59 | 312 | 18.54 | 313 |
| 80 | 0 | 0 | 0 | 1.12 | 18.64 | 311 | 18.58 | 312 |
| 90 | 0 | 0 | 0 | 1.12 | 18.68 | 310 | 18.62 | 311 |
| 100 | 0 | 0 | 0 | 1.12 | 18.72 | 310 | 18.67 | 310 |
| 110 | 0 | 0 | 0 | 1.12 | 18.75 | 309 | 18.71 | 310 |
| 120 | 0 | 0 | 0 | 1.12 | 18.78 | 309 | 18.76 | 309 |
| 130 | 0 | 0 | 0 | 1.12 | 18.81 | 308 | 18.8 | 308 |
| 167 | 0 | 0 | 0 | 1.12 | 18.92 | 307 | 18.91 | 307 |
| 212 | 0 | 0 | 0 | 1.12 | 19.05 | 305 | 19.04 | 305 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 43.95 | 1500 | 43.95 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 43.63 | 313 | 43.57 | 314 |
| 30 | 0 | 0 | 0 | 1.12 | 43.76 | 313 | 43.71 | 313 |
| 40 | 0 | 0 | 0 | 1.12 | 43.81 | 312 | 43.75 | 313 |
| 50 | 0 | 0 | 0 | 1.12 | 43.85 | 312 | 43.79 | 312 |
| 60 | 0 | 0 | 0 | 1.12 | 43.9 | 312 | 43.84 | 312 |
| 70 | 0 | 0 | 0 | 1.12 | 43.94 | 312 | 43.88 | 312 |
| 80 | 0 | 0 | 0 | 1.12 | 43.99 | 311 | 43.93 | 312 |
| 90 | 0 | 0 | 0 | 1.12 | 44.03 | 311 | 43.97 | 311 |
| 100 | 0 | 0 | 0 | 1.12 | 44.07 | 311 | 44.01 | 311 |
| 110 | 0 | 0 | 0 | 1.12 | 44.1 | 311 | 44.06 | 311 |
| 120 | 0 | 0 | 0 | 1.12 | 44.13 | 310 | 44.1 | 311 |
| 130 | 0 | 0 | 0 | 1.12 | 44.16 | 310 | 44.15 | 310 |
| 167 | 0 | 0 | 0 | 1.12 | 44.27 | 310 | 44.26 | 310 |
| 212 | 0 | 0 | 0 | 1.12 | 44.4 | 309 | 44.39 | 309 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 85.1 | 1500 | 85.1 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 84.78 | 312 | 84.72 | 312 |
| 30 | 0 | 0 | 0 | 1.12 | 84.91 | 312 | 84.86 | 312 |
| 40 | 0 | 0 | 0 | 1.12 | 84.96 | 312 | 84.9 | 312 |
| 50 | 0 | 0 | 0 | 1.12 | 85 | 312 | 84.95 | 312 |
| 60 | 0 | 0 | 0 | 1.12 | 85.05 | 312 | 84.99 | 312 |
| 70 | 0 | 0 | 0 | 1.12 | 85.09 | 311 | 85.03 | 312 |
| 80 | 0 | 0 | 0 | 1.12 | 85.13 | 311 | 85.08 | 312 |
| 90 | 0 | 0 | 0 | 1.12 | 85.18 | 311 | 85.12 | 311 |
| 100 | 0 | 0 | 0 | 1.12 | 85.22 | 311 | 85.16 | 311 |
| 110 | 0 | 0 | 0 | 1.12 | 85.25 | 311 | 85.21 | 311 |
| 120 | 0 | 0 | 0 | 1.12 | 85.27 | 311 | 85.25 | 311 |
| 130 | 0 | 0 | 0 | 1.12 | 85.3 | 311 | 85.29 | 311 |
| 167 | 0 | 0 | 0 | 1.12 | 85.41 | 311 | 85.41 | 311 |
| 212 | 0 | 0 | 0 | 1.12 | 85.54 | 310 | 85.54 | 310 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 158.51 | 1500 | 158.51 | 1500* |
| 0 | 0 | 0 | 0 | 1.12 | 158.21 | 312 | 158.15 | 312 |
| 30 | 0 | 0 | 0 | 1.12 | 158.34 | 312 | 158.28 | 312 |
| 40 | 0 | 0 | 0 | 1.12 | 158.38 | 312 | 158.33 | 312 |
| 50 | 0 | 0 | 0 | 1.12 | 158.42 | 312 | 158.37 | 312 |
| 60 | 0 | 0 | 0 | 1.12 | 158.46 | 312 | 158.41 | 312 |
| 70 | 0 | 0 | 0 | 1.12 | 158.51 | 311 | 158.45 | 312 |
| 80 | 0 | 0 | 0 | 1.12 | 158.55 | 311 | 158.49 | 311 |
| 90 | 0 | 0 | 0 | 1.12 | 158.59 | 311 | 158.53 | 311 |
| 100 | 0 | 0 | 0 | 1.12 | 158.63 | 311 | 158.57 | 311 |
| 110 | 0 | 0 | 0 | 1.12 | 158.65 | 311 | 158.62 | 311 |
| 120 | 0 | 0 | 0 | 1.12 | 158.68 | 311 | 158.66 | 311 |
| 130 | 0 | 0 | 0 | 1.12 | 158.71 | 311 | 158.7 | 311 |
| 167 | 0 | 0 | 0 | 1.12 | 158.81 | 311 | 158.81 | 311 |
| 212 | 0 | 0 | 0 | 1.12 | 158.94 | 311 | 158.94 | 311 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-5 | 2-5 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 |
| 100.00 | 4-3 | 4-3 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 |
| 125.00 | 6-8 | 6-8 | 6-9 | 6-10 | 6-11 | 7-0 | 7-1 | 7-1 | 7-2 | 7-3 |
| 150.00 | 9-7 | 9-8 | 9-9 | 9-11 | 10-0 | 10-1 | 10-2 | 10-3 | 10-5 | 10-6 |
| 175.00 | 13-1 | 13-2 | 13-4 | 13-6 | 13-7 | 13-9 | 13-11 | 14-0 | 14-2 | 14-3 |
| 200.00 | 17-1 | 17-3 | 17-5 | 17-8 | 17-10 | 18-0 | 18-2 | 18-4 | 18-6 | 18-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 2-5 | 2-5 | 2-6 | 2-6 | 2-6 | 2-6 | 2-7 | 2-7 | 2-7 | 2-8 |
| 100.00 | 4-4 | 4-4 | 4-5 | 4-5 | 4-6 | 4-6 | 4-7 | 4-7 | 4-8 | 4-8 |
| 125.00 | 6-9 | 6-10 | 6-10 | 6-11 | 7-0 | 7-1 | 7-2 | 7-3 | 7-3 | 7-4 |
| 150.00 | 9-8 | 9-10 | 9-11 | 10-0 | 10-1 | 10-3 | 10-4 | 10-5 | 10-6 | 10-7 |
| 175.00 | 13-3 | 13-4 | 13-6 | 13-8 | 13-9 | 13-11 | 14-1 | 14-2 | 14-4 | 14-5 |
| 200.00 | 17-4 | 17-6 | 17-8 | 17-10 | 18-1 | 18-3 | 18-5 | 18-7 | 18-9 | 18-10 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-6 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 |
| 125.00 | 7-1 | 7-1 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 |
| 150.00 | 10-3 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 | 10-5 | 10-6 |
| 175.00 | 14-0 | 14-0 | 14-1 | 14-1 | 14-1 | 14-2 | 14-2 | 14-3 | 14-3 | 14-3 |
| 200.00 | 18-4 | 18-4 | 18-5 | 18-5 | 18-6 | 18-6 | 18-7 | 18-7 | 18-8 | 18-9 |
| 225.00 | 23-3 | 23-4 | 23-4 | 23-5 | 23-6 | 23-6 | 23-7 | 23-8 | 23-8 | 23-9 |
| 250.00 | 28-10 | 28-10 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-3 | 29-4 | 29-5 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-8 | 4-8 | 4-8 |
| 125.00 | 7-2 | 7-2 | 7-2 | 7-2 | 7-2 | 7-3 | 7-3 | 7-3 | 7-3 | 7-3 |
| 150.00 | 10-3 | 10-4 | 10-4 | 10-4 | 10-5 | 10-5 | 10-5 | 10-5 | 10-6 | 10-6 |
| 175.00 | 14-0 | 14-1 | 14-1 | 14-2 | 14-2 | 14-2 | 14-3 | 14-3 | 14-4 | 14-4 |
| 200.00 | 18-4 | 18-5 | 18-6 | 18-6 | 18-7 | 18-7 | 18-8 | 18-8 | 18-9 | 18-9 |
| 225.00 | 23-4 | 23-4 | 23-5 | 23-6 | 23-7 | 23-7 | 23-8 | 23-9 | 23-9 | 23-10 |
| 250.00 | 28-11 | 28-11 | 29-0 | 29-1 | 29-2 | 29-3 | 29-4 | 29-5 | 29-5 | 29-6 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 10-8 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-10 |
| 175.00 | 14-7 | 14-7 | 14-8 | 14-8 | 14-8 | 14-8 | 14-8 | 14-8 | 14-9 | 14-9 |
| 200.00 | 19-1 | 19-2 | 19-2 | 19-2 | 19-2 | 19-3 | 19-3 | 19-3 | 19-3 | 19-3 |
| 225.00 | 24-3 | 24-4 | 24-4 | 24-4 | 24-4 | 24-5 | 24-5 | 24-5 | 24-6 | 24-6 |
| 250.00 | 30-1 | 30-1 | 30-2 | 30-2 | 30-2 | 30-3 | 30-3 | 30-3 | 30-4 | 30-4 |
| 275.00 | 36-6 | 36-7 | 36-7 | 36-8 | 36-8 | 36-9 | 36-9 | 36-9 | 36-10 | 36-10 |
| 300.00 | 43-8 | 43-8 | 43-9 | 43-10 | 43-10 | 43-11 | 43-11 | 44-0 | 44-0 | 44-1 |
| 325.00 | 51-6 | 51-6 | 51-7 | 51-8 | 51-8 | 51-9 | 51-10 | 51-10 | 51-11 | 51-11 |
| 350.00 | 60-0 | 60-1 | 60-2 | 60-2 | 60-3 | 60-4 | 60-4 | 60-5 | 60-6 | 60-7 |
| 375.00 | 69-3 | 69-4 | 69-5 | 69-6 | 69-6 | 69-7 | 69-8 | 69-9 | 69-10 | 69-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 150.00 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-9 | 10-10 | 10-10 |
| 175.00 | 14-7 | 14-8 | 14-8 | 14-8 | 14-8 | 14-8 | 14-8 | 14-9 | 14-9 | 14-9 |
| 200.00 | 19-2 | 19-2 | 19-2 | 19-2 | 19-3 | 19-3 | 19-3 | 19-3 | 19-4 | 19-4 |
| 225.00 | 24-4 | 24-4 | 24-4 | 24-5 | 24-5 | 24-5 | 24-5 | 24-6 | 24-6 | 24-6 |
| 250.00 | 30-1 | 30-2 | 30-2 | 30-2 | 30-3 | 30-3 | 30-4 | 30-4 | 30-4 | 30-4 |
| 275.00 | 36-7 | 36-7 | 36-8 | 36-8 | 36-9 | 36-9 | 36-10 | 36-10 | 36-10 | 36-11 |
| 300.00 | 43-9 | 43-9 | 43-10 | 43-10 | 43-11 | 43-11 | 44-0 | 44-0 | 44-1 | 44-1 |
| 325.00 | 51-7 | 51-7 | 51-8 | 51-8 | 51-9 | 51-10 | 51-10 | 51-11 | 52-0 | 52-0 |
| 350.00 | 60-1 | 60-2 | 60-2 | 60-3 | 60-4 | 60-5 | 60-5 | 60-6 | 60-7 | 60-7 |
| 375.00 | 69-4 | 69-5 | 69-6 | 69-7 | 69-8 | 69-8 | 69-9 | 69-10 | 69-11 | 70-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 20-4 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 |
| 225.00 | 25-10 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 26-0 | 26-0 | 26-0 |
| 250.00 | 32-1 | 32-1 | 32-1 | 32-1 | 32-2 | 32-2 | 32-2 | 32-2 | 32-2 | 32-2 |
| 275.00 | 39-0 | 39-0 | 39-0 | 39-0 | 39-1 | 39-1 | 39-1 | 39-1 | 39-2 | 39-2 |
| 300.00 | 46-7 | 46-8 | 46-8 | 46-8 | 46-8 | 46-9 | 46-9 | 46-9 | 46-9 | 46-10 |
| 325.00 | 55-0 | 55-0 | 55-0 | 55-1 | 55-1 | 55-1 | 55-2 | 55-2 | 55-2 | 55-3 |
| 350.00 | 64-2 | 64-2 | 64-2 | 64-3 | 64-3 | 64-3 | 64-4 | 64-4 | 64-5 | 64-5 |
| 375.00 | 74-1 | 74-1 | 74-2 | 74-2 | 74-3 | 74-3 | 74-3 | 74-4 | 74-4 | 74-5 |
| 400.00 | 84-10 | 84-10 | 84-11 | 84-11 | 85-0 | 85-0 | 85-1 | 85-1 | 85-2 | 85-2 |
| 425.00 | 96-5 | 96-6 | 96-6 | 96-7 | 96-7 | 96-8 | 96-9 | 96-9 | 96-10 | 96-10 |
| 450.00 | 108-10 | 108-11 | 109-0 | 109-1 | 109-1 | 109-2 | 109-3 | 109-3 | 109-4 | 109-5 |
| 475.00 | 122-3 | 122-4 | 122-4 | 122-5 | 122-6 | 122-7 | 122-8 | 122-8 | 122-9 | 122-10 |
| 500.00 | 136-7 | 136-7 | 136-8 | 136-9 | 136-10 | 136-11 | 137-0 | 137-1 | 137-2 | 137-2 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-5 | 20-6 | 20-6 |
| 225.00 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 25-11 | 26-0 | 26-0 | 26-0 | 26-0 |
| 250.00 | 32-1 | 32-1 | 32-1 | 32-2 | 32-2 | 32-2 | 32-2 | 32-2 | 32-3 | 32-3 |
| 275.00 | 39-0 | 39-0 | 39-0 | 39-1 | 39-1 | 39-1 | 39-1 | 39-2 | 39-2 | 39-2 |
| 300.00 | 46-8 | 46-8 | 46-8 | 46-8 | 46-9 | 46-9 | 46-9 | 46-10 | 46-10 | 46-10 |
| 325.00 | 55-0 | 55-1 | 55-1 | 55-1 | 55-2 | 55-2 | 55-2 | 55-3 | 55-3 | 55-3 |
| 350.00 | 64-2 | 64-2 | 64-3 | 64-3 | 64-4 | 64-4 | 64-4 | 64-5 | 64-5 | 64-5 |
| 375.00 | 74-1 | 74-2 | 74-2 | 74-3 | 74-3 | 74-4 | 74-4 | 74-5 | 74-5 | 74-5 |
| 400.00 | 84-10 | 84-11 | 85-0 | 85-0 | 85-1 | 85-1 | 85-2 | 85-2 | 85-3 | 85-3 |
| 425.00 | 96-6 | 96-6 | 96-7 | 96-7 | 96-8 | 96-9 | 96-9 | 96-10 | 96-10 | 96-11 |
| 450.00 | 108-11 | 109-0 | 109-1 | 109-1 | 109-2 | 109-3 | 109-4 | 109-4 | 109-5 | 109-5 |
| 475.00 | 122-4 | 122-5 | 122-5 | 122-6 | 122-7 | 122-8 | 122-9 | 122-9 | 122-10 | 122-11 |
| 500.00 | 136-8 | 136-9 | 136-9 | 136-10 | 136-11 | 137-0 | 137-1 | 137-2 | 137-3 | 137-3 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS



OH823.189

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 36-6 | 36-6 | 36-6 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 |
| 275.00 | 44-5 | 44-5 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 |
| 300.00 | 53-3 | 53-3 | 53-3 | 53-3 | 53-3 | 53-3 | 53-4 | 53-4 | 53-4 | 53-4 |
| 325.00 | 62-11 | 62-11 | 62-11 | 62-11 | 62-11 | 62-11 | 63-0 | 63-0 | 63-0 | 63-0 |
| 350.00 | 73-5 | 73-6 | 73-6 | 73-6 | 73-6 | 73-6 | 73-7 | 73-7 | 73-7 | 73-7 |
| 375.00 | 85-0 | 85-0 | 85-0 | 85-0 | 85-1 | 85-1 | 85-1 | 85-1 | 85-2 | 85-2 |
| 400.00 | 97-6 | 97-6 | 97-6 | 97-7 | 97-7 | 97-7 | 97-8 | 97-8 | 97-8 | 97-8 |
| 425.00 | 111-0 | 111-1 | 111-1 | 111-1 | 111-2 | 111-2 | 111-2 | 111-3 | 111-3 | 111-3 |
| 450.00 | 125-8 | 125-8 | 125-8 | 125-9 | 125-9 | 125-9 | 125-10 | 125-10 | 125-11 | 125-11 |
| 475.00 | 141-4 | 141-5 | 141-5 | 141-6 | 141-6 | 141-6 | 141-7 | 141-7 | 141-8 | 141-8 |
| 500.00 | 158-3 | 158-3 | 158-4 | 158-4 | 158-5 | 158-5 | 158-6 | 158-6 | 158-7 | 158-7 |
| 525.00 | 176-4 | 176-5 | 176-5 | 176-6 | 176-7 | 176-7 | 176-8 | 176-8 | 176-9 | 176-9 |
| 550.00 | 195-9 | 195-10 | 195-10 | 195-11 | 196-0 | 196-0 | 196-1 | 196-2 | 196-2 | 196-3 |
| 575.00 | 216-6 | 216-7 | 216-7 | 216-8 | 216-9 | 216-10 | 216-10 | 216-11 | 217-0 | 217-0 |
| 600.00 | 238-8 | 238-9 | 238-10 | 238-10 | 238-11 | 239-0 | 239-1 | 239-2 | 239-2 | 239-3 |
| 625.00 | 262-4 | 262-5 | 262-5 | 262-6 | 262-7 | 262-8 | 262-9 | 262-10 | 262-11 | 263-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 36-6 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 | 36-7 |
| 275.00 | 44-5 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 | 44-6 | 44-7 |
| 300.00 | 53-3 | 53-3 | 53-3 | 53-3 | 53-3 | 53-4 | 53-4 | 53-4 | 53-4 | 53-4 |
| 325.00 | 62-11 | 62-11 | 62-11 | 62-11 | 62-11 | 63-0 | 63-0 | 63-0 | 63-0 | 63-0 |
| 350.00 | 73-6 | 73-6 | 73-6 | 73-6 | 73-7 | 73-7 | 73-7 | 73-7 | 73-7 | 73-8 |
| 375.00 | 85-0 | 85-0 | 85-0 | 85-1 | 85-1 | 85-1 | 85-2 | 85-2 | 85-2 | 85-2 |
| 400.00 | 97-6 | 97-6 | 97-7 | 97-7 | 97-7 | 97-8 | 97-8 | 97-8 | 97-8 | 97-9 |
| 425.00 | 111-1 | 111-1 | 111-1 | 111-2 | 111-2 | 111-2 | 111-3 | 111-3 | 111-3 | 111-4 |
| 450.00 | 125-8 | 125-8 | 125-9 | 125-9 | 125-10 | 125-10 | 125-10 | 125-11 | 125-11 | 125-11 |
| 475.00 | 141-5 | 141-5 | 141-6 | 141-6 | 141-7 | 141-7 | 141-7 | 141-8 | 141-8 | 141-9 |
| 500.00 | 158-4 | 158-4 | 158-5 | 158-5 | 158-6 | 158-6 | 158-7 | 158-7 | 158-8 | 158-8 |
| 525.00 | 176-5 | 176-6 | 176-6 | 176-7 | 176-7 | 176-8 | 176-8 | 176-9 | 176-10 | 176-10 |
| 550.00 | 195-10 | 195-11 | 195-11 | 196-0 | 196-0 | 196-1 | 196-2 | 196-2 | 196-3 | 196-3 |
| 575.00 | 216-7 | 216-8 | 216-8 | 216-9 | 216-10 | 216-11 | 216-11 | 217-0 | 217-1 | 217-1 |
| 600.00 | 238-9 | 238-10 | 238-11 | 238-11 | 239-0 | 239-1 | 239-2 | 239-3 | 239-3 | 239-4 |
| 625.00 | 262-5 | 262-6 | 262-7 | 262-7 | 262-8 | 262-9 | 262-10 | 262-11 | 263-0 | 263-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

Span = 100 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 3.39 | 2000 | 3.39 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 2.82 | 497 | 2.71 | 519 |
| 30 | 0 | 0 | 0 | 1.12 | 3.02 | 465 | 2.9 | 484 |
| 40 | 0 | 0 | 0 | 1.12 | 3.09 | 455 | 2.97 | 473 |
| 50 | 0 | 0 | 0 | 1.12 | 3.15 | 446 | 3.03 | 464 |
| 60 | 0 | 0 | 0 | 1.12 | 3.21 | 438 | 3.09 | 454 |
| 70 | 0 | 0 | 0 | 1.12 | 3.27 | 430 | 3.15 | 446 |
| 80 | 0 | 0 | 0 | 1.12 | 3.33 | 422 | 3.21 | 437 |
| 90 | 0 | 0 | 0 | 1.12 | 3.39 | 415 | 3.27 | 430 |
| 100 | 0 | 0 | 0 | 1.12 | 3.45 | 408 | 3.33 | 422 |
| 110 | 0 | 0 | 0 | 1.12 | 3.49 | 404 | 3.39 | 415 |
| 120 | 0 | 0 | 0 | 1.12 | 3.52 | 399 | 3.44 | 408 |
| 130 | 0 | 0 | 0 | 1.12 | 3.56 | 396 | 3.5 | 402 |
| 167 | 0 | 0 | 0 | 1.12 | 3.69 | 382 | 3.67 | 383 |
| 212 | 0 | 0 | 0 | 1.12 | 3.84 | 367 | 3.83 | 368 |

* Design Condition

Span = 200 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 13.74 | 2000 | 13.74 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 13.2 | 432 | 13.09 | 435 |
| 30 | 0 | 0 | 0 | 1.12 | 13.38 | 426 | 13.27 | 430 |
| 40 | 0 | 0 | 0 | 1.12 | 13.44 | 424 | 13.33 | 428 |
| 50 | 0 | 0 | 0 | 1.12 | 13.5 | 422 | 13.39 | 426 |
| 60 | 0 | 0 | 0 | 1.12 | 13.56 | 420 | 13.45 | 424 |
| 70 | 0 | 0 | 0 | 1.12 | 13.62 | 419 | 13.51 | 422 |
| 80 | 0 | 0 | 0 | 1.12 | 13.68 | 417 | 13.57 | 420 |
| 90 | 0 | 0 | 0 | 1.12 | 13.74 | 415 | 13.62 | 419 |
| 100 | 0 | 0 | 0 | 1.12 | 13.8 | 413 | 13.68 | 417 |
| 110 | 0 | 0 | 0 | 1.12 | 13.85 | 412 | 13.74 | 415 |
| 120 | 0 | 0 | 0 | 1.12 | 13.89 | 411 | 13.8 | 414 |
| 130 | 0 | 0 | 0 | 1.12 | 13.92 | 410 | 13.86 | 412 |
| 167 | 0 | 0 | 0 | 1.12 | 14.07 | 406 | 14.05 | 406 |
| 212 | 0 | 0 | 0 | 1.12 | 14.24 | 401 | 14.23 | 402 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 300 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 31.7 | 2000 | 31.7 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 31.16 | 422 | 31.05 | 423 |
| 30 | 0 | 0 | 0 | 1.12 | 31.34 | 420 | 31.23 | 421 |
| 40 | 0 | 0 | 0 | 1.12 | 31.4 | 419 | 31.29 | 420 |
| 50 | 0 | 0 | 0 | 1.12 | 31.46 | 418 | 31.35 | 420 |
| 60 | 0 | 0 | 0 | 1.12 | 31.52 | 417 | 31.41 | 419 |
| 70 | 0 | 0 | 0 | 1.12 | 31.58 | 417 | 31.47 | 418 |
| 80 | 0 | 0 | 0 | 1.12 | 31.64 | 416 | 31.53 | 417 |
| 90 | 0 | 0 | 0 | 1.12 | 31.7 | 415 | 31.58 | 417 |
| 100 | 0 | 0 | 0 | 1.12 | 31.76 | 415 | 31.64 | 416 |
| 110 | 0 | 0 | 0 | 1.12 | 31.81 | 414 | 31.7 | 415 |
| 120 | 0 | 0 | 0 | 1.12 | 31.85 | 414 | 31.76 | 415 |
| 130 | 0 | 0 | 0 | 1.12 | 31.89 | 413 | 31.82 | 414 |
| 167 | 0 | 0 | 0 | 1.12 | 32.03 | 411 | 32.02 | 411 |
| 212 | 0 | 0 | 0 | 1.12 | 32.21 | 409 | 32.2 | 409 |

* Design Condition

Span = 400 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 58.6 | 2000 | 58.6 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 58.07 | 419 | 57.96 | 419 |
| 30 | 0 | 0 | 0 | 1.12 | 58.25 | 417 | 58.13 | 418 |
| 40 | 0 | 0 | 0 | 1.12 | 58.3 | 417 | 58.19 | 418 |
| 50 | 0 | 0 | 0 | 1.12 | 58.36 | 417 | 58.25 | 417 |
| 60 | 0 | 0 | 0 | 1.12 | 58.42 | 416 | 58.31 | 417 |
| 70 | 0 | 0 | 0 | 1.12 | 58.48 | 416 | 58.37 | 417 |
| 80 | 0 | 0 | 0 | 1.12 | 58.54 | 416 | 58.43 | 416 |
| 90 | 0 | 0 | 0 | 1.12 | 58.6 | 415 | 58.48 | 416 |
| 100 | 0 | 0 | 0 | 1.12 | 58.66 | 415 | 58.54 | 416 |
| 110 | 0 | 0 | 0 | 1.12 | 58.71 | 415 | 58.6 | 415 |
| 120 | 0 | 0 | 0 | 1.12 | 58.75 | 414 | 58.66 | 415 |
| 130 | 0 | 0 | 0 | 1.12 | 58.79 | 414 | 58.72 | 415 |
| 167 | 0 | 0 | 0 | 1.12 | 58.93 | 413 | 58.92 | 413 |
| 212 | 0 | 0 | 0 | 1.12 | 59.11 | 412 | 59.1 | 412 |

* Design Condition

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Span = 500 ft

| Design Condition | | | | | Final | | Initial | |
|---|---|---|---|---|---|---|---|---|
| Cond. | Ice | Wind | K | Weight | Sag | Tension | Sag | Tension |
| ˚F | in | Psf | lb/ft | lb/ft | ft | lb | ft | lb |
| 20 | 0 | 31.5 | 0 | 5.394 | 97.14 | 2000 | 97.14 | 2000* |
| 0 | 0 | 0 | 0 | 1.12 | 96.61 | 417 | 96.5 | 417 |
| 30 | 0 | 0 | 0 | 1.12 | 96.79 | 416 | 96.68 | 417 |
| 40 | 0 | 0 | 0 | 1.12 | 96.85 | 416 | 96.74 | 417 |
| 50 | 0 | 0 | 0 | 1.12 | 96.91 | 416 | 96.79 | 416 |
| 60 | 0 | 0 | 0 | 1.12 | 96.97 | 416 | 96.85 | 416 |
| 70 | 0 | 0 | 0 | 1.12 | 97.02 | 416 | 96.91 | 416 |
| 80 | 0 | 0 | 0 | 1.12 | 97.08 | 415 | 96.97 | 416 |
| 90 | 0 | 0 | 0 | 1.12 | 97.14 | 415 | 97.03 | 416 |
| 100 | 0 | 0 | 0 | 1.12 | 97.2 | 415 | 97.08 | 415 |
| 110 | 0 | 0 | 0 | 1.12 | 97.25 | 415 | 97.14 | 415 |
| 120 | 0 | 0 | 0 | 1.12 | 97.29 | 415 | 97.2 | 415 |
| 130 | 0 | 0 | 0 | 1.12 | 97.33 | 415 | 97.26 | 415 |
| 167 | 0 | 0 | 0 | 1.12 | 97.47 | 414 | 97.46 | 414 |
| 212 | 0 | 0 | 0 | 1.12 | 97.65 | 414 | 97.63 | 414 |

* Design Condition

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-7 | 1-8 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 |
| 100.00 | 2-10 | 2-11 | 3-0 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 |
| 125.00 | 4-5 | 4-6 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 |
| 150.00 | 6-5 | 6-7 | 6-8 | 6-10 | 7-0 | 7-1 | 7-3 | 7-5 | 7-6 | 7-8 |
| 175.00 | 8-9 | 8-11 | 9-1 | 9-4 | 9-6 | 9-8 | 9-10 | 10-1 | 10-3 | 10-5 |
| 200.00 | 11-5 | 11-8 | 11-11 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 100.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 75.00 | 1-8 | 1-8 | 1-9 | 1-9 | 1-10 | 1-10 | 1-10 | 1-11 | 1-11 | 2-0 |
| 100.00 | 2-11 | 3-0 | 3-1 | 3-2 | 3-3 | 3-3 | 3-4 | 3-5 | 3-5 | 3-6 |
| 125.00 | 4-8 | 4-9 | 4-10 | 4-11 | 5-0 | 5-1 | 5-3 | 5-4 | 5-5 | 5-5 |
| 150.00 | 6-8 | 6-10 | 6-11 | 7-1 | 7-3 | 7-4 | 7-6 | 7-8 | 7-9 | 7-10 |
| 175.00 | 9-1 | 9-3 | 9-6 | 9-8 | 9-10 | 10-1 | 10-3 | 10-5 | 10-7 | 10-9 |
| 200.00 | 11-10 | 12-2 | 12-5 | 12-8 | 12-11 | 13-2 | 13-5 | 13-7 | 13-10 | 14-0 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed



SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.194

Stringing Sag Table Using Initial Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-5 |
| 125.00 | 5-2 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 |
| 150.00 | 7-5 | 7-5 | 7-6 | 7-6 | 7-7 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 |
| 175.00 | 10-1 | 10-2 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-6 |
| 200.00 | 13-2 | 13-3 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 |
| 225.00 | 16-9 | 16-10 | 16-11 | 17-0 | 17-1 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 |
| 250.00 | 20-8 | 20-10 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-7 |

Stringing Sag Table Using Final Sag — Ruling Span: 200.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 100.00 | 3-4 | 3-4 | 3-4 | 3-4 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 |
| 125.00 | 5-2 | 5-2 | 5-3 | 5-3 | 5-3 | 5-4 | 5-4 | 5-4 | 5-4 | 5-5 |
| 150.00 | 7-6 | 7-6 | 7-6 | 7-7 | 7-7 | 7-8 | 7-8 | 7-9 | 7-9 | 7-9 |
| 175.00 | 10-2 | 10-3 | 10-3 | 10-4 | 10-4 | 10-5 | 10-6 | 10-6 | 10-7 | 10-7 |
| 200.00 | 13-4 | 13-5 | 13-5 | 13-6 | 13-7 | 13-7 | 13-8 | 13-9 | 13-10 | 13-10 |
| 225.00 | 16-11 | 17-0 | 17-0 | 17-1 | 17-2 | 17-3 | 17-4 | 17-5 | 17-6 | 17-7 |
| 250.00 | 20-11 | 21-0 | 21-1 | 21-2 | 21-3 | 21-4 | 21-5 | 21-7 | 21-8 | 21-9 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.195

Stringing Sag Table Using Initial Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 7-9 | 7-9 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 |
| 175.00 | 10-6 | 10-6 | 10-7 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-8 |
| 200.00 | 13-9 | 13-9 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 13-11 | 14-0 |
| 225.00 | 17-5 | 17-6 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 |
| 250.00 | 21-7 | 21-7 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 |
| 275.00 | 26-2 | 26-2 | 26-3 | 26-3 | 26-4 | 26-5 | 26-5 | 26-6 | 26-6 | 26-7 |
| 300.00 | 31-2 | 31-3 | 31-3 | 31-4 | 31-5 | 31-6 | 31-6 | 31-7 | 31-8 | 31-8 |
| 325.00 | 36-8 | 36-9 | 36-10 | 36-11 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 |
| 350.00 | 42-8 | 42-9 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 |
| 375.00 | 49-1 | 49-2 | 49-3 | 49-4 | 49-6 | 49-7 | 49-8 | 49-9 | 49-10 | 49-11 |

Stringing Sag Table Using Final Sag — Ruling Span: 300.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150.00 | 7-9 | 7-9 | 7-9 | 7-9 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 |
| 175.00 | 10-7 | 10-7 | 10-7 | 10-7 | 10-8 | 10-8 | 10-8 | 10-8 | 10-8 | 10-9 |
| 200.00 | 13-10 | 13-10 | 13-10 | 13-10 | 13-11 | 13-11 | 13-11 | 14-0 | 14-0 | 14-0 |
| 225.00 | 17-6 | 17-6 | 17-7 | 17-7 | 17-7 | 17-8 | 17-8 | 17-9 | 17-9 | 17-9 |
| 250.00 | 21-8 | 21-8 | 21-9 | 21-9 | 21-10 | 21-10 | 21-11 | 21-11 | 22-0 | 22-0 |
| 275.00 | 26-3 | 26-3 | 26-4 | 26-5 | 26-5 | 26-6 | 26-6 | 26-7 | 26-8 | 26-8 |
| 300.00 | 31-3 | 31-4 | 31-5 | 31-6 | 31-6 | 31-7 | 31-8 | 31-8 | 31-9 | 31-10 |
| 325.00 | 36-10 | 36-11 | 36-11 | 37-0 | 37-1 | 37-2 | 37-3 | 37-4 | 37-4 | 37-5 |
| 350.00 | 42-10 | 42-11 | 43-0 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 43-6 |
| 375.00 | 49-3 | 49-4 | 49-6 | 49-7 | 49-8 | 49-9 | 49-10 | 49-11 | 50-0 | 50-1 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.196

Stringing Sag Table Using Initial Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 14-3 | 14-3 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-4 | 14-4 |
| 225.00 | 18-1 | 18-1 | 18-1 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 |
| 250.00 | 22-4 | 22-4 | 22-4 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 |
| 275.00 | 27-1 | 27-1 | 27-1 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 |
| 300.00 | 32-3 | 32-4 | 32-4 | 32-5 | 32-5 | 32-5 | 32-6 | 32-6 | 32-7 | 32-7 |
| 325.00 | 38-0 | 38-0 | 38-1 | 38-1 | 38-2 | 38-2 | 38-3 | 38-3 | 38-4 | 38-4 |
| 350.00 | 44-2 | 44-3 | 44-3 | 44-4 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-7 |
| 375.00 | 50-11 | 50-11 | 51-0 | 51-0 | 51-1 | 51-2 | 51-2 | 51-3 | 51-3 | 51-4 |
| 400.00 | 58-1 | 58-2 | 58-2 | 58-3 | 58-4 | 58-4 | 58-5 | 58-6 | 58-7 | 58-7 |
| 425.00 | 65-9 | 65-10 | 65-11 | 66-0 | 66-1 | 66-1 | 66-2 | 66-3 | 66-4 | 66-5 |
| 450.00 | 74-0 | 74-1 | 74-2 | 74-3 | 74-4 | 74-5 | 74-6 | 74-7 | 74-7 | 74-8 |
| 475.00 | 82-9 | 82-10 | 83-0 | 83-1 | 83-2 | 83-3 | 83-4 | 83-5 | 83-6 | 83-7 |
| 500.00 | 92-1 | 92-2 | 92-4 | 92-5 | 92-6 | 92-7 | 92-8 | 92-9 | 92-10 | 93-0 |

Stringing Sag Table Using Final Sag — Ruling Span: 400.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 200.00 | 14-3 | 14-3 | 14-3 | 14-4 | 14-4 | 14-4 | 14-4 | 14-4 | 14-4 | 14-5 |
| 225.00 | 18-1 | 18-1 | 18-1 | 18-2 | 18-2 | 18-2 | 18-2 | 18-2 | 18-3 | 18-3 |
| 250.00 | 22-4 | 22-5 | 22-5 | 22-5 | 22-5 | 22-6 | 22-6 | 22-6 | 22-6 | 22-7 |
| 275.00 | 27-1 | 27-2 | 27-2 | 27-2 | 27-3 | 27-3 | 27-3 | 27-4 | 27-4 | 27-4 |
| 300.00 | 32-4 | 32-5 | 32-5 | 32-5 | 32-6 | 32-6 | 32-7 | 32-7 | 32-7 | 32-8 |
| 325.00 | 38-1 | 38-1 | 38-2 | 38-2 | 38-3 | 38-3 | 38-4 | 38-4 | 38-4 | 38-5 |
| 350.00 | 44-3 | 44-4 | 44-4 | 44-5 | 44-5 | 44-6 | 44-6 | 44-7 | 44-8 | 44-8 |
| 375.00 | 51-0 | 51-0 | 51-1 | 51-2 | 51-2 | 51-3 | 51-3 | 51-4 | 51-5 | 51-5 |
| 400.00 | 58-2 | 58-3 | 58-4 | 58-4 | 58-5 | 58-6 | 58-7 | 58-7 | 58-8 | 58-8 |
| 425.00 | 65-11 | 66-0 | 66-1 | 66-1 | 66-2 | 66-3 | 66-4 | 66-5 | 66-5 | 66-6 |
| 450.00 | 74-2 | 74-3 | 74-4 | 74-5 | 74-6 | 74-7 | 74-8 | 74-8 | 74-9 | 74-10 |
| 475.00 | 82-11 | 83-0 | 83-1 | 83-3 | 83-4 | 83-5 | 83-6 | 83-7 | 83-8 | 83-9 |
| 500.00 | 92-3 | 92-5 | 92-6 | 92-7 | 92-8 | 92-9 | 92-10 | 93-0 | 93-1 | 93-2 |

TABLE OF CONTENTS

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 23-4 | 23-4 | 23-5 | 23-5 | 23-5 | 23-5 | 23-5 | 23-5 | 23-5 | 23-6 |
| 275.00 | 28-4 | 28-4 | 28-4 | 28-4 | 28-5 | 28-5 | 28-5 | 28-5 | 28-5 | 28-6 |
| 300.00 | 33-9 | 33-10 | 33-10 | 33-10 | 33-10 | 33-11 | 33-11 | 33-11 | 33-11 | 34-0 |
| 325.00 | 39-9 | 39-10 | 39-10 | 39-10 | 39-10 | 39-11 | 39-11 | 39-11 | 39-11 | 40-0 |
| 350.00 | 46-3 | 46-4 | 46-4 | 46-4 | 46-4 | 46-5 | 46-5 | 46-5 | 46-6 | 46-6 |
| 375.00 | 53-3 | 53-4 | 53-4 | 53-5 | 53-5 | 53-5 | 53-6 | 53-6 | 53-6 | 53-7 |
| 400.00 | 60-10 | 60-11 | 60-11 | 60-11 | 61-0 | 61-0 | 61-1 | 61-1 | 61-1 | 61-2 |
| 425.00 | 68-11 | 69-0 | 69-0 | 69-1 | 69-1 | 69-2 | 69-2 | 69-3 | 69-3 | 69-4 |
| 450.00 | 77-7 | 77-8 | 77-8 | 77-9 | 77-9 | 77-10 | 77-10 | 77-11 | 78-0 | 78-0 |
| 475.00 | 86-10 | 86-10 | 86-11 | 87-0 | 87-0 | 87-1 | 87-2 | 87-2 | 87-3 | 87-3 |
| 500.00 | 96-7 | 96-8 | 96-9 | 96-10 | 96-10 | 96-11 | 97-0 | 97-0 | 97-1 | 97-2 |
| 525.00 | 107-0 | 107-1 | 107-2 | 107-3 | 107-3 | 107-4 | 107-5 | 107-6 | 107-6 | 107-7 |
| 550.00 | 118-0 | 118-1 | 118-2 | 118-3 | 118-4 | 118-5 | 118-5 | 118-6 | 118-7 | 118-8 |
| 575.00 | 129-8 | 129-9 | 129-10 | 129-11 | 130-0 | 130-1 | 130-2 | 130-2 | 130-3 | 130-4 |
| 600.00 | 141-11 | 142-0 | 142-1 | 142-2 | 142-3 | 142-4 | 142-5 | 142-6 | 142-7 | 142-8 |
| 625.00 | 154-10 | 154-11 | 155-0 | 155-2 | 155-3 | 155-4 | 155-5 | 155-6 | 155-7 | 155-9 |

Stringing Sag Table Using Final Sag — Ruling Span: 500.0 Feet

| Temp F > | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sag | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in | ft-in |
| Span | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 250.00 | 23-4 | 23-5 | 23-5 | 23-5 | 23-5 | 23-5 | 23-5 | 23-6 | 23-6 | 23-6 |
| 275.00 | 28-4 | 28-4 | 28-5 | 28-5 | 28-5 | 28-5 | 28-5 | 28-6 | 28-6 | 28-6 |
| 300.00 | 33-10 | 33-10 | 33-10 | 33-11 | 33-11 | 33-11 | 33-11 | 34-0 | 34-0 | 34-0 |
| 325.00 | 39-10 | 39-10 | 39-10 | 39-11 | 39-11 | 39-11 | 39-11 | 40-0 | 40-0 | 40-0 |
| 350.00 | 46-4 | 46-4 | 46-4 | 46-5 | 46-5 | 46-5 | 46-6 | 46-6 | 46-6 | 46-7 |
| 375.00 | 53-4 | 53-5 | 53-5 | 53-5 | 53-6 | 53-6 | 53-6 | 53-7 | 53-7 | 53-7 |
| 400.00 | 60-11 | 60-11 | 61-0 | 61-0 | 61-1 | 61-1 | 61-1 | 61-2 | 61-2 | 61-3 |
| 425.00 | 69-0 | 69-1 | 69-1 | 69-2 | 69-2 | 69-3 | 69-3 | 69-4 | 69-4 | 69-5 |
| 450.00 | 77-8 | 77-9 | 77-9 | 77-10 | 77-10 | 77-11 | 78-0 | 78-0 | 78-1 | 78-1 |
| 475.00 | 86-11 | 87-0 | 87-0 | 87-1 | 87-2 | 87-2 | 87-3 | 87-3 | 87-4 | 87-5 |
| 500.00 | 96-9 | 96-9 | 96-10 | 96-11 | 97-0 | 97-0 | 97-1 | 97-2 | 97-2 | 97-3 |
| 525.00 | 107-2 | 107-2 | 107-3 | 107-4 | 107-5 | 107-6 | 107-6 | 107-7 | 107-8 | 107-9 |
| 550.00 | 118-2 | 118-3 | 118-4 | 118-5 | 118-5 | 118-6 | 118-7 | 118-8 | 118-9 | 118-10 |
| 575.00 | 129-10 | 129-11 | 130-0 | 130-1 | 130-1 | 130-2 | 130-3 | 130-4 | 130-5 | 130-6 |
| 600.00 | 142-1 | 142-2 | 142-3 | 142-4 | 142-5 | 142-6 | 142-7 | 142-9 | 142-10 | 142-10 |
| 625.00 | 155-0 | 155-1 | 155-3 | 155-4 | 155-5 | 155-6 | 155-7 | 155-9 | 155-10 | 155-11 |

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| REV | CHANGE | BY | DSGN | APPV | DATE | REV | CHANGE | BY | DSGN | APPV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C | | | | | | F | | | | | |
| B | | | | | | E | | | | | |
| A | ORIGINAL ISSUE | GW | JS | CZH | 7/17/2018 | D | | | | | |

Indicates Latest Revision | Completely Revised | X New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

**SCOPE:** THIS STANDARD DESCRIBES THE CRITERIA FOR DESIGNING A "REDUCED TENSION SPAN".

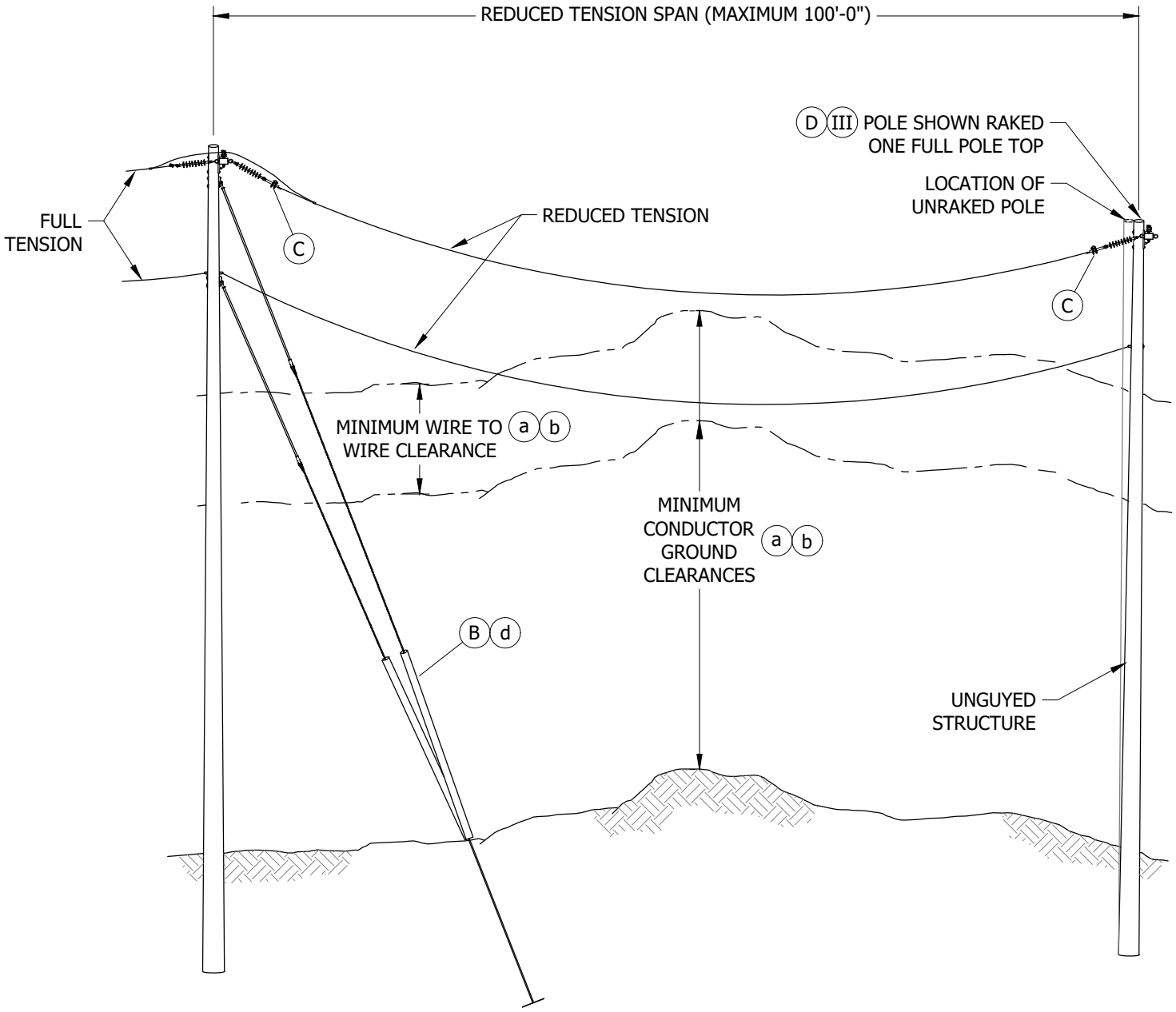


**FIGURE 1**

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| REV | CHANGE | DR | BY | DSN | APV | DATE | REV | CHANGE | DR | BY | DSN | APV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | COMPLETELY REVISED | EDM | MRF | JES | KRG | 07/14/2022 | F | | | | | | |
| B | EDITORIAL CHANGES | - | GW | JS | CZH | 07/17/2018 | E | | | | | | |
| A | REVISION REASON | - | - | - | PIA/MC | 06/17/2009 | D | | | | | | |

Indicates Latest Revision | X Completely Revised | New Page | Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

REDUCED TENSION SPAN CONSTRUCTION SINGLE/DOUBLE CROSSARMS



OH824.1

TABLE OF CONTENTS

## INSTALLATION:

A. IF A STRUCTURE REQUIRES GUYING, HOWEVER SPACE LIMITATIONS, PERMITTING RESTRICTIONS, ETC. PREVENT THE USE OF A STANDARD DOWN GUY, A REDUCED TENSION SPAN MAY BE UTILIZED. FOR THIS STANDARD, REDUCED TENSION SPAN SHALL BE DEFINED AS A SPAN WHERE ***ALL CONDUCTORS*** IN THE SPAN ARE AT THEIR MINIMUM TENSIONS TO MEET ALL HORIZONTAL AND VERTICAL CLEARANCES. THE INSTALLATION TENSION IS NOT TO EXCEED THE WEIGHT OF THE CONDUCTOR BEING INSTALLED. THE PHRASE "***ALL CONDUCTORS***" INCLUDES ALL ELECTRIC AND COMMUNICATION CONDUCTORS IN THE RESPECTIVE SPAN. (I) (II) (V)

(B) DOWN GUYING SHALL BE ADDED TO ADJACENT STRUCTURE IN THE DIRECTION OF UN-GUYED STRUCTURE (FIGURE 1).

(C) BOLT-STYLE DEADEND SHOES SHALL BE ADDED TO BOTH STRUCTURES (FIGURE 1).

(D) UN-GUYED STRUCTURE SHALL BE RAKED BACK APPROXIMATELY ONE HALF TO ONE FULL POLE TOP (FIGURE 1).

E. CONDUCTOR TENSIONS WITHIN THE SPAN SHALL BE REDUCED UNTIL ALL HORIZONTAL AND VERTICAL CLEARANCES ARE MET AT THE LOWEST POSSIBLE TENSIONS. (IV)

**BILL OF MATERIALS:** NONE

## NOTES:

(I) SPAN LENGTH LIMITED TO 100 FEET.

(II) REDUCED TENSIONS ARE TO BE APPLIED TO INDIVIDUAL SPANS ONLY (NOT ALLOWED ON CONSECUTIVE SPANS).

(III) RAKING ENSURES POLE WILL REMAIN PLUMB OVER TIME UNDER FULL LOADING CONDITIONS.

(IV) PARALLEL WIRE CATENARIES TO REMAIN LEVEL WHILE MEETING MINIMUM WIRE TO WIRE AND GROUND CLEARANCES. (a) (b)

(V) THIS STANDARD MUST BE USED IN CONJUNCTION WITH APPLICABLE CONSTRUCTION STANDARDS AND DESIGN CALCULATION REQUIREMENTS TO ENSURE CAPACITY, DEFLECTION, AND CLEARANCE REQUIREMENTS ARE MET FOR POLE, FOUNDATION, CROSSARMS, CONDUCTORS, GUYS, AND ALL ASSOCIATED HARDWARE.

## REFERENCE:

(a) SEE G.O. 95, RULE 37: MINIMUM CLEARANCE OF WIRES ABOVE RAILROADS, THOROUGHFARES, BUILDINGS, ETC.

(b) SEE OH220: VERTICAL SEPARATION AND CLEARANCE OF CIRCUITS, CROSSARMS AND WIRES.

c. SEE OH711: WIRE TABLES.

(d) FOR GUYING, SEE OH SECTION 900.

e. SEE SDG&E CROSSARM LOADING SPREADSHEET.

f. SEE TE12100: DIRECT BURIED POLE SELECTION AND LOADING CRITERIA.

TABLE OF CONTENTS

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| REV | CHANGE | DR | BY | DSN | APV | DATE | REV | CHANGE | DR | BY | DSN | APV | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | COMPLETELY REVISED | EDM | MRF | JES | KRG | 07/14/2022 | F | | | | | | |
| B | EDITORIAL CHANGES | - | GW | JS | CZH | 07/17/2018 | E | | | | | | |
| A | REVISION REASON | - | - | - | PIA/MC | 06/17/2009 | D | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| SHEET 2 OF 2 | Indicates Latest Revision | X Completely Revised | New Page | Information Removed | OH824.2 |
| | SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS | | | | |
| | REDUCED TENSION SPAN CONSTRUCTION SINGLE/DOUBLE CROSSARMS | | | | |